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## Introduction to UNF

The University of North Florida (UNF) is one of twelve public colleges and universities within the State University System in Florida. It is a comprehensive, metropolitan university, which offers degree programs at the baccalaureate, master's, and doctoral levels. Initially established as an upper division and master's degree-granting institution, UNF began offering classes in 1972 to a 2,000-member student body. In 1984, freshmen and sophomores were admitted. In 1990 the university opened a doctoral program in educational leadership and in 2007, UNF added a doctorate in nursing practice and a doctorate in physical therapy.

UNF remains one of the most selective comprehensive universities in America. In fall 2012, approximately 1 out of every 8 freshman applicants enrolled in the fall class. With a mean SAT score of 1213 and grade point average of 3.88, UNF's 2012 fall freshman class reflected the university's commitment to high-quality undergraduate education. The minimum scores typically expected for admission to a four-year university such as UNF are a sliding scale equivalent of 1000 on the Critical Reading and Mathematics parts of the SAT (or the ACT equivalent) and a GPA of 3.0.

The university is committed to diversity with the belief that exposure to an extraordinary blend of students offers a rich and rewarding educational experience. Of the more than 16,320 students enrolled at UNF for the 2012 fall term, about 56 percent were women, just under 25 percent were minorities, and 89 percent were undergraduates.

Printable Catalogs

Archived Catalogs

## Course Schedule Search:

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## Mission \& Vision

## Statement of Vision

The University of North Florida aspires to be a preeminent public institution of higher learning that will serve the North Florida region at a level of national quality. The institution of choice for a diverse and talented student body, UNF will provide distinctive programs in the arts and sciences and professional fields. UNF faculty will excel in teaching and scholarship, sharing with students their passion for discovery. Students, faculty, staff, alumni, and visitors will enjoy a campus noteworthy for its communal spirit, cultural richness, and environmental beauty.

## Statement of Mission

The University of North Florida fosters the intellectual and cultural growth and civic awareness of its students, preparing them to make significant contributions to their communities in the region and beyond. At UNF, students and faculty engage together and individually in the discovery and application of knowledge. UNF faculty and staff maintain an unreserved commitment to student success within a diverse, supportive campus culture.

## Fulfilling its Mission

UNF cultivates a learning environment that supports intellectual curiosity, academic achievement, and personal grow. UNF's faculty is composed of more than 500 teachers and scholars who are focused on the education of the UNF student. As such, these faculty members help students build a foundation for life-long learning. Through their own scholarship and creative work, UNF faculty members remain engaged with the larger academic community. This scholarship informs the faculty's teaching. Often the faculty's research addresses local and regional concerns. Student participation in this research adds to the depth of their educational experiences.

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## Accreditations

## Regional Accreditation

The University of North Florida is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award baccalaureate, master's, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call (404) 6794500 for questions about the accreditation of the University of North Florida.

Individual contact to the Commission on Colleges about the University of North Florida accreditation status should occur only if there is evidence that appears to support significant noncompliance with a requirement or standard.

## Professional Accreditations/Approvals

- AACSB International - The Association to Advance Collegiate Schools of Business
- Academy of Nutrition and Dietetics/Accreditation Council for Education in Nutrition and Dietetics (ACEND)
- American Association of Nurse Anesthetists, Council on Accreditation of Nurse Anesthesia Educational Programs - Graduate: Nursing - Nurse Anesthetist Concentration
- American Chemical Society (ACS)
- American Council for Construction Education (ACCE) Construction Management
- Association for University Programs in Health Administration (AUPHA)
- Commission on Accreditation of Athletic Training Education (CAATE)
- Commission on Accreditation of Healthcare Management Education (CAHME)
- Commission on Accreditation in Physical Therapy Education / American Physical Therapy Association
- Commission on Collegiate Nursing Education (CCNE)
- Commission on Sport Management Accreditation (COSMA) - Candidacy
- Computing Accreditation Commission of ABET Inc.
- Council for Accreditation of Counseling and Related Educational Programs (CACREP)
- Council on Education for Public Health (CEPH)
- Council on Education of the Deaf (CED)
- Council on Social Work Education (CSWE) - Candidacy
- Engineering Accreditation Commission (EAC) of ABET Inc.
- Florida Board of Nursing
- Florida Department of Education
- National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) - Candidacy
- National Association of Schools of Music (NASM)
- National Association of Schools of Public Affairs and Administration (NASPAA)
- National Council for Accreditation of Teacher Education (NCATE)


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## Seal, Logo, Mascot and Creed

## The Official Seal



The official seal for the University of North Florida incorporates a circle and a compass rose - a directionfinding device for mariners. These symbolize the University's role in providing direction for students. The placement of the symbol in the upper northeast quadrant of the circle describes the University's location in the northeast region of Florida. The Roman numerals MCMLXV refer to the year that the University was chartered, 1965. Use of the official University seal is reserved for official documents such as diplomas and other official certificates.

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## The UNF Logo

The University's graphic symbol is depicted at left. It consists of three elements. The initials UNF are referred to as the monogram. The words University of North Florida are referred to as the descriptor. The bird is the osprey image. The logo can appear with or without the descriptor. The osprey image should never be used alone. The logo appears on official University stationery, business cards, envelopes, Web pages and external publications. Blue and gray are the official UNF colors. Visual Identity Guidelines, which explain the proper use of the UNF logos, are available at the Department of Marketing and Publications, or can be found online.


## The Osprey Mascot

The osprey was adopted officially as the University of North Florida mascot in November 1979 in an election conducted by the Student Government Association. The osprey received 47 percent of the votes and won over the armadillo, seagull, manatee and shark. Ospreys can often be seen gliding majestically over the campus. The osprey - a member of the hawk family with a wingspan of up to 6 feet - is capable of diving 80 mph in pursuit of fish, which constitute its main diet. UNF's mascot has the characteristics that UNF students hope to have when they graduate. Ospreys have been described as seemingly inexhaustible, tenacious, opportunistic, cosmopolitan, loyal to their species, adaptable, resilient and fond of living near other ospreys. Described as "trendy birds" in National Geographic magazine for their success in adapting to suburban neighborhoods, ospreys also are into recycling. Children's toys, plastic foam containers, cork buoys and doormats are some of the items they use to construct their gigantic nests. Ospreys, like UNF alumni, reside on all continents, except Antarctica. To commemorate UNF's commitment to the environment and its adoption of the osprey as its mascot, the University of North Florida Foundation Inc. commissioned a watercolor painting of the osprey by noted ornithologist and wildlife artist Frederick William Wetzel of Jacksonville. The painting hangs permanently in the special collections of the Thomas G. Carpenter Library.

## The Student Creed

I AM THE UNIVERSITY OF NORTH FLORIDA.
I am loyal to the Nest without reservation.
I am selfless in my effort to advance its values.
I am relentless in the pursuit of truth and
knowledge carried out in the spirit of intellectual and artistic freedom.
I am one who wears the colors of the Osprey proudly.
I am wearing them on my chest and in my heart, on and off the playing field with confidence and vigor.
I am filled with courage and dare to soar.
I am an Osprey flying far, fast, and hard.

- Christopher Warren, 2010



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## Board Members

## Florida Board of Governors

Richard A. Beard, III
Tony Bennett
Matthew M. Carter, II
Manoj Chopra
Dean Colson, Chair
Patricia Frost
Morteza "Mori" Hosseini, Vice Chair
H. Wayne Huizenga, Jr.

Thomas G. Kuntz
Ned C. Lautenbach
Alan Levine
Wendy Link
Edward Morton
John D. Rood
Norman D. Tripp
Elizabeth L. Webster
Cortex Whatley

## University Board of Trustees

R. Bruce Taylor, III, Ph.D., Chair
A. Hugh Greene, Vice Chair

Carlo G.A. Fassi

Fred D. Franklin, Jr.
W. Radford Lovett, II

Oscar Munoz
Joan W. Newton
M. Lynn Pappas

Myron W. Pincomb
E. Lanny Russell

Sharon L. Wamble-King


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## University Officers

John A. Delaney, J.D. (University of Florida) President
Earle C. Traynham, Jr., Ph.D. (University of South Carolina) Interim Provost and Vice President for Academic Affairs; Professor Emeritus of Economics

Thomas S. Serwatka, Ph.D. (Kent State University) Vice President and Chief of Staff; Professor, Department of Exceptional Student and Deaf Education (Deaf Education)

Ann McCullen, B.S. (University of Florida) Interim Vice President for Development and Alumni Affairs

Mauricio Gonzalez, Ph.D. (Florida State University) Vice President for Student and International Affairs; Professor (Affiliate Appointment), Department of Leadership, Counseling and Instructional Technology

Rachelle Gottlieb, M.A. (University of Texas, Austin) Vice President for Human Resources
Janet D. Owen, J.D. (Stetson University) Vice President for Governmental Relations

Shari A. Shuman, M.P.A. (University of North Florida) Vice President for Administration and Finance

Karen J. Stone, J.D. (University of Florida) Vice President; General Counsel


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## University Deans

Pamela S. Chally, Ph.D. (Georgia State University) R.N., Dean, Brooks College of Health; Associate Vice President for Academic Affairs; Professor, School of Nursing

Jeffery Coker, Ph.D. (Ohio University) Dean, Undergraduate Studies
Larry G. Daniel, Ph.D. (University of New Orleans) Dean, College of Education and Human Services; Professor, Department of Counseling and Educational Leadership (Educational Leadership)

Elizabeth A. Curry, MLn (University of South Florida, Emory University) Dean, Thomas G. Carpenter Library

Barbara A. Daniels Hetrick, Ph.D. (Oregon State University) Dean, College of Arts and Sciences; Professor, Biology

Len Roberson, Ph.D. (Gallaudet University) Dean of the Graduate School, Assistant Vice President for Academic Technology and Associate Professor, Department of Exceptional Student and Deaf Education

Ajay Samant, Ph.D. (Indiana University Bloomington) Dean, Coggin College of Business; Professor, Finance

Mark A. Tumeo, Ph.D. (University of California Davis) Dean, College of Computing, Engineering and Construction; Professor, Civil Engineering

Robert Wood, M.P.A. (Indiana University) Dean, Division of Continuing Education


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## University Faculty

## A B C D E F G H I J K L M N O P Q R S T U V W Y Z

## A

Bettie M. Adams, M.Acc (Florida State University) CPA, CIA, CFP, ChFC Assistant Professor, Accounting and Finance

John Adams, Ph.D. (Texas Tech University) Assistant Professor, Accounting and Finance (Finance)
Gregory A. Ahearn, Ph.D. (Arizona State University) Presidential Professor, Biology
Parvez Ahmed, Ph.D. (University of Texas at Arlington) Associate Professor, Accounting and Finance (Finance)

William D. Ahrens, M.S.N. (University of Alabama at Birmingham) R.N. Senior Instructor, Nursing
Sanjay P. Ahuja, Ph.D. (University of Louisville) Professor, Computing
Barry Albright, Ph.D. (University of California, Riverside), Laboratory Lecturer, Physics
James Alderman, M.S.L.S. (Florida State University) M.A. (University of North Florida) University Librarian

Carolyne Ali-Khan, Ph.D. (The Graduate Center, CUNY) Assistant Professor, Foundations and Secondary Education

Ashley Batts Allen, Ph.D. (Duke University) Assistant Professor, Psychology
Tracy Packiam Alloway, Ph.D. (The University of Edinburgh) Assistant Professor, Psychology
Faiz AI-Rubaee, Ph.D. (New York University/Courant Institute) Associate Professor, Mathematics and Statistics (Mathematics)

Lian An, Ph.D. (University of Kentucky) Associate Professor, Economics and Geography (Economics)

Irma B. Ancheta, Ph.D., R.N. (University of South Florida) Assistant Professor, Nursing

John E. Anderson, Ph.D. (Harvard University) Senior Research Lecturer, Physics
Jonathan Antal, MS (Instructor) Exceptional, Deaf and Interpreter Education
Daniel J. Arenas, Ph.D. (University of Florida) Assistant Professor, Physics
Mark Ari, M.F.A. (Brooklyn College - CUNY) Instructor, English (English)

Christa Arnold, Ph.D. (University of Florida) Assistant Professor, Communication
Lynne Arriale, M.M. (Wisconsin Conservatory of Music) Associate Professor, Music
Asai Asaithambi, Ph.D. (University of Wisconsin-Madison) Director and Professor, School of Computing, Computer Science

Beyza Aslan, Ph.D. (University of Florida) Assistant Professor, Mathematics and Statistics (Mathematics)

## B

Peter Bacopoulos, Ph.D. (University of Central Florida) Assistant Professor, Civil Engineering
Julie Baker-Townsend, M.S.N., A.R.N.P., B.C. (University of Florida) Instructor, Nursing
Chitra K. Balasubramainian, Ph.D. (University of Florida) Assistant Professor, Clinical and Applied Movement Sciences

Dee Baldwin, MLS (Indiana University) Associate Dean, University Library
Mina N. Baliamoune-Lutz, Ph.D. (Northeastern University) Professor, Economics and Geography, Distinguished Professor

Constanza Lopez Baquero, Ph.D. (City University of New York) Assistant Professor, Languages, Literatures and Cultures (Spanish)

Bryan Bannon, Ph.D. (University of Memphis) Assistant Professor, Philosophy
Marianne B. Barnes, Ph.D. (University of Texas) Professor, Foundations and Secondary Education (Science Education)

Mary K. Baron, Ph.D. (University of Illinois) Professor, English
Elissa Barr, Ph.D., CHES, (University of Florida) Associate Professor, Public Health
Thomas L. Barton, Ph.D. (University of Florida) CPA, Kathryn and Richard Kip Professor of Accounting, Accounting and Finance (Accounting)

Christopher W. Baynard, Ph.D. (University of Florida) Assistant Professor, Economics and Geography (Geography)

Andrew Beall, M.S. (Arkansas State University) Laboratory Lecturer, Biology
Joel W. Beam, Ed.D. (University of North Florida) ATC, LAT, Associate Professor, Clinical and Applied Movement Sciences (Athletic Training)

Berrin Beasley, Ph.D. (University of Southern Mississippi) Associate Professor, Communication (Communication)

Michele S. Bednarzyk, M.N. (University of South Carolina) ARNP, B.C., Instructor, Nursing
David J. Begley, M.F.A. (Savannah College of Art \& Design) Associate Professor, Art and Design (Graphic Design)

Denis R. Bell, Ph.D. (University of Warwick) Professor, Mathematics and Statistics (Mathematics)

Timothy Bell, Ph.D. (Oklahoma State University) Professor \& Coggin Distinguished Professor of Accounting, Accounting and Finance (Accounting)

Michele Benarzyk, D.N.P., F.N.P., B.C. Assistant Professor \& Program Director, Nurse Practitioner Program

Erin Bennett, M.M. (University of Florida) Assistant Professor, Music (Piano Pedagogy)
Jeanette Berger, Ph.D. (Indiana University of Pennsylvania) Instructor, English
Krzysztof Biernacki, D.M.A. (University of British Columbia) Associate Professor, Music (Music/Voice)

Kimberly Bilsky, MSN (Instructor), Nursing
Michael Binder, Ph.D. (University of California, San Diego) Assistant Professor, Political Science and Public Administration

Rebecca Bliss, M.A. (University of North Florida) Foundations and Secondary Education (English Education)

Kathaleen C. Bloom, Ph.D. (University of Florida) C.N.M. Professor and Prelicensure Coordinator, Nursing

Robert H. Bohle, Ph.D. (University of Tennessee) Professor, Communication (Communications/Journalism)

Michelle Boling, Ph.D., A.T.C. (University of North Carolina at Chapel Hill) Associate Professor, Clinical and Applied Movement Sciences (Athletic Training)

Mary O. Borg, Ph.D. (University of North Carolina at Chapel Hill) Professor, Political Science and Public Administration

Koren Borges, M.B.A. (University of Pennsylvania) Instructor, Management
Denise I. Bossy (Yale University) Assistant Professor, History
Adel N. Boules, Ph.D. (Michigan State) Professor, Mathematics and Statistics (Mathematics)
Michael Bovenzi, D.M.A. (University of Illinois-Urbana-Champaign) Assistant Professor,Music (Classical Saxophone)

Jeffrey T. Bowen, MLS (University of Maryland) University Librarian
Doria F. Bowers, Ph.D. (University of Texas - Austin) Professor, Biology
Adam Boyd, MSN (Florida International University) Instructor, Nursing
Jenna Braddock, MSH (University of North Florida) Instructor, Nutrition and Dietetics
Denise L. Bristol (Nova Southeastern University) Laboratory Lecturer, Biology
Gordon R. Brock, D.M.A. (University of Colorado, Boulder) Professor, Music
James Broomall, Ph.D. (University of Florida) Assistant Professor, History
Christopher Brown, Ph.D. (University of Florida) Assistant Professor, Engineering (Civil)
Louise Freshman Brown, M.F.A. (Syracuse University) Professor, Art and Design
(Painting/Drawing), Distinguished Professor, 2007
Peter Scott Brown, Ph.D. (Yale University) Associate Professor, Art and Design (Art History)
Alison J. Bruey (Yale University) Associate Professor, History
Jennifer Bryant (University of Florida) Laboratory Lecturer, Chemistry

Andrew J. Buchwalter, Ph.D. (Boston University) John A. Delaney Presidential Professor, Philosophy

Bernadette D. Buckley, Ph.D. (University of Florida) ATC, LAT, Associate Professor, Clinical and Applied Movement Sciences (Athletic Training)

Melissa Bush, M.Ed. (University of North Florida) Laboratory Lecturer, Research Programs and Services, Chemistry

Joseph A. Butler, Ph.D. (Ohio State University) Professor, Biology
Elena M. Buzaianu, Ph.D. (Syracuse University) Associate Professor, Mathematics and Statistics (Statistics)

Jin-Suk Byun, Ph.D. (University of Illinois at Urbana-Champaign) Assistant Professor, Childhood Education (Linguistics)

## C

Joseph L. Campbell, Ph.D. (Clemson University) PE, Professor, Engineering
Gaylord Candler, Ph.D. (Indiana University, Bloomington) Associate Professor, Political Science and Public Administration (Public Administration)

Paul Carelli, Ph.D. (University of Kentucky), Assistant Professor, Philosophy
Lynne Carroll, Ph.D. (University of Pittsburgh) Professor, Psychology
Tammy CarrolI, M.S.N., C.R.N.A. (Florida International University) Instructor, Nursing
Candice Carter, Ph.D. (University of California, Riverside) Associate Professor, Childhood Education (Elementary Education)

Jeremy Cater, Ph.D. (Michigan State University) Assistant Professor, Criminology and Criminal Justice

Keith Cartwright, Ph.D. (Indiana University) Professor, English
Dale A. Casamatta, Jr., Ph.D. (Ohio University) Professor, Biology
Peter A. Casella, Ph.D. (University of North Carolina, Chapel Hill) Assistant Professor, Communication (Mass Communication)

Corey Causey, Ph.D. (Duke University) Assistant Professor, Chemistry
Terence Cavanaugh, Ph.D. (University of South Florida) Associate Professor, Leadership, School Counseling and Sports Management (Instructional Technology)

Stuart Chalk, Ph.D. (University of Massachusetts, Amherst) Associate Professor, Chemistry and Interim Director, Environmental Center

Pamela S. Chally, Ph.D. (Georgia State University) R.N., Dean, Brooks College of Health; Professor, Nursing, Distinguished Professor, 2008

Richard H. Chant, Ed.D. (University of Central Florida) Associate Professor, Foundations and Secondary Education (Social Studies Education) and Program Leader, Secondary Education

Kim Cheek, Ph.D. (University of Durham) Assistant Professor, Childhood Education, Literacy and TESOL

Hong Chen, Ph.D. (University of Ohio) Assistant Professor, Physics
Chiu H. Choi, Ph.D. (University of California, Santa Barbara) PE, Professor, Engineering (Electrical Engineering) and Director of Electrical Engineering Research Development Laboratory

Hyunsun Choi, Ph.D. (University of Southern California) Associate Professor, Political Science and Public Administration (Urban and Regional Planning)

Youngtae Choi, Ph.D. (Texas A\&M University) Associate Professor, Marketing and Logistics (Marketing)

Catherine Christie, Ph.D. (Florida State University) Professor and Associate Dean, Brooks College of Health

Natasha Christie, Ph.D. (University of Florida) Assistant Professor, Political Science and Public Administration (Political Science)

Ching-Hua Chuan, Ph.D. (University of California, Los Angeles) Assistant Professor, Computing
James Churilla, Ph.D. (University of Tennessee) Associate Professor, Clinical and Applied Movement Sciences (Exercise Science)

Angeles Fernandez Cifuentes, Ph.D. (University of Texas-Austin) Assistant Professor, Languages, Literatures and Culture

Kerry L. Clark, Ph.D. (University of South Carolina) Associate Professor, Public Health (Epidemiology)

Charles E. Closmann, Ph.D. (University of Houston) Associate Professor and Chair, History
Sharon C. Cobb, Ph.D. (University of Florida) Professor, Economics and Geography (Geography)
Blake Coglianese, M.F.A. (Savannah College of Art and Design) Associate Professor, Art and Design (Multimedia and Graphic Design)
B. Jay Coleman, Ph.D. (Clemson University) Interim Associate Provost, Academic Affairs, Richard deRaismes Kip Professor of Operations Management and Quantitative Methods, Management (Management and Quantitative Methods), Distinguished Professor, 2005

Wayne Coleman, M.A. (University of South Florida) Instructor, Economics and Geography (Geography)

Luke M. Cornelius, Ph.D. (University of Florida) Associate Professor, Leadership, School Counseling and Sports Management

Gerald Colvin, Ph.D. (University of Pittsburgh) Assistant Professor, Public Health (Health Administration)

Dee Colvin-Ott, M.F.A. (Indiana State University) Instructor, Communication
Judith Comeaux, M.S.N. (University of Florida) A.R.N.P., Assistant Professor, Nursing
Linda Connelly, M.S.N. (University of North Florida) A.R.N.P., Instructor, Nursing
Richard V. Conte, Ph.D. (University of Arizona) Senior Instructor and Advisor, Engineering (Mechanical Engineering)
W. Thomas Coppedge, M.A. (University of Georgia) Instructor, Economics and Geography (Economics)

Luke Cornelius, Ph.D. (University of Florida) \& J.D. (Georgia State University) Associate Professor, Leadership, School Counseling and Sport Management

Hugh Cornell, M.S. (University of North Florida) Instructor, Mathematics
Jeffrey W. Cornett, Ph.D. (Ohio State University) Chairperson and Professor, Foundations and Secondary Education (Educational Policy and Leadership)

Vuokko (Vicki) Cornett, MED (University of Toledo) Clinical Instructor, Office of Educational Field

## Experiences

Nancy Correa-Matos, Ph.D. (University of Illinois) Assistant Professor, Nutrition and Dietetics

Matthew T. Corrigan, Ph.D. (University of Florida) Professor and Chair, Political Science and Public Administration

Charles B. Coughlin, M.S. (Florida State University) Laboratory Lecturer, Biology

David T. Courtwright, Ph.D. (Rice University) Professor, History with joint appointment in the Brooks College of Health; Distinguished Professor, 1998; Presidential Professor

Michele Covington, Ph.D. (University of Central Florida) Assistant Professor, Criminology and Criminal Justice

Daniel Cox, Ph.D. (University of Texas at Austin) Professor, Engineering (Mechanical Engineering)
Vanessa Cruz, M.F.A. (California Institute of Art) Associate Professor, Art and Design (Multimedia and Graphic Design)

Cynthia Cummings, Ed.D., R.N. (University of North Florida), Assistant Professor, Nursing

James Nixon (Nick) Curry, D.M.A. (Northwestern University) Associate Professor, Music (Music)
Malgorazta Czerwinska, Ph.D. (University of Memphis) Assistant Professor, Mathematics and Statistics (Mathematics)

## D

Linda Dacks, M.A. (Nova University) Resident Clinical Faculty, Childhood Education

Frederick Dale, M.A. (University of North Florida) Instructor, English
William Dally, Ph.D. (University of Florida) Associate Professor, Civil Engineering
Larry G. Daniel, Ph.D. (University of New Orleans) Dean, College of Education and Human Services; Professor, Leadership, School Counseling and Sports Management (Educational Leadership)

Matthew Davies, M.S. (University of California-Irvine) Laboratory Lecturer, Chemistry
Justin Davis, B.S. (California State University-Northridge) Assistant Swim Coach, Athletics
Sean M. Davis, Ph.D. (Florida Atlantic University) Assistant Professor, Accounting and Finance

Michelle DeDeo, Ph.D. (University of California, San Diego) Associate Professor, Mathematics and Statistics (Mathematics)

David Deeley, Ph.D. (University of Florida) Assistant Professor, Communication
Pieter de Jong, Ph.D. (University of Texas at Arlington) Associate Professor, Accounting and Finance (Finance)

Rosa De Jorio, Ph.D. (University of Illinois at Urbana-Champaign) Associate Professor, Sociology and Anthropology (Anthropology)

Todd T. DelGiudice, MM (University of Oregon) Assistant Professor, Music
Brandilyn Denison, Ph.D. (University of North Carolina - Chapel Hill) Assistant Professor, Philosophy

Diane Denslow, M.B.A. (University of North Florida) Instructor, Management
Nicholas de Villiers, Ph.D. (University of Minnesota) Associate Professor of English

Alexander Diaz, MFA (University of Florida) Assistant Professor, Art and Design (Photography)
Marcus Dickman Jr., D.M.A. (North Texas State University) Associate Professor, Music (Music)
Daniel Dinsmore, Ph.D. (University of Maryland) Assistant Professor, Foundations and Secondary Education (Music Education)

Nofa Dixon, M.F.A. (Virginia Commonwealth University) Associate Professor, Art and Design (Art)
Roberta Reid Doggett, M.S., APR (West Virginia University) Instructor, Communication (Public Relations)

Gregory F. Domber, Ph.D. (George Washington University), Assistant Professor, History
Timothy J. Donovan, M.A. (Pennsylvania State University) Associate Professor, English
Emily Arthur, M.F.A. (Pennsylvania Academy of the Fine Arts) Associate Professor, Art and Design (Printmaking)

Daniel Dreibelbis, Ph.D. (Brown University) Associate Professor and Undergraduate Director, Mathematics and Statistics (Mathematics)

John Dryden, Ph.D. (University of Florida) Assistant Professor, Construction Management
Raluca Dumitru, Ph.D. (University of Cincinnati) Associate Professor, Mathematics
Georgette Dumont, Ph.D. (Northern Illinois University) Assistant Professor, Political Science and Public Administration (Political Science)

Trevor Dunn, M.F.A. (Utah State University) Assistant Professor, Art and Design (Ceramics)
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E

Paul Eason, Ph.D. (University of Florida) Associate Professor of Mechanical Engineering
Martin I. Edwards, J.D. (University of Florida) Director, Pre-Law Program and Instructor, Political Science and Public Administration

Roger E. Eggen, Ph.D. (University of Missouri-Rolla) Professor, Computing
Adel I. El-Ansary, Ph.D. (Ohio State University) Donna Harper Professor of Marketing, Marketing and Logistics

Adel El-Safty, Ph.D. (North Carolina State University) Associate Professor, Engineering (Civil Engineering)

Sherif A. Elfayoumy, Ph.D. (University of Louisville) Associate Dean, College of Computing, Engineering and Construction, Associate Professor, Computing

Mary Helen Elliott, M.S.N. (Creighton University) R.N., Instructor, Nursing
Terri Ellis, Ph.D. (University of California, Davis) Assistant Professor, Biology
Reham A. Eltantawy, Ph.D. (Florida State University) Associate Professor, Marketing and Logistics (Marketing)

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F
Paul A. Fadil, Ph.D. (Florida State University) Chair and Professor, Management
David E. W. Fenner, Ph.D. (University of Miami) Associate Dean, College of Arts and Sciences; Professor, Philosophy

Jorge Febles, Ph.D. (University of Iowa) Professor, Languages, Literatures and Cultures (Spanish)
Denice Fett, Ph.D. (Ohio State University) Assistant Professor, History
Brian Fisak, Ph.D. (University of Central Florida) Associate Professor, Psychology
Gerald F. Fletcher, M.D. (Mayo Medical School) Courtesy/ Clinical Professor, Brooks College of Health

James Fletcher, Ph.D. (University of Florida) Associate Professor, Engineering (Mechanical Engineering)

Joseph W. Flowers, M.A. (University of North Florida) Instructor, English
Linda A. Foley, Ph.D. (University of Florida) Professor, Psychology; Distinguished Professor, 1982
Bruce Fortado, Ph.D. (Case Western Reserve University) Professor, Management (Management)
Cheryl A. Fountain, Ed.D. (University of Florida) Executive Director, Florida Institute of Education; Professor, Leadership, School Counseling and Sports Management (Educational Leadership)

Jose Franco, Ph.D. (Baylor University) Assistant Professor, Mathematics and Statistics (Mathematics)

Robert Frankel, Ph.D. (Michigan State University) Professor and Chair, Co-Director, Transportation and Logistics Flagship Program, Marketing and Logistics

Cheryl J. Frohlich, Ph.D. (University of Illinois) Associate Professor, Accounting and Finance (Finance)

Elizabeth Fullerton, Ph.D. (University of Florida) Assistant Professor, Childhood Education (Special Education)

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G
D. Christopher Gabbard, Ph.D. (Stanford University) Associate Professor and Graduate Coordinator, English

Raymond W. Gaddy, MFA (University of Alabama) Instructor, Art and Design (Art)

Andrés Alberto Gallo, Ph.D. (University of Illinois Champaign - Urbana) Co-Director, International Business Flagship Program, Professor, Economics and Geography (Economics)

Bernadette Gambino, M.A. (George Mason University) Instructor, English (English)
James L. Garner, Ph.D. (Ohio State University) Professor and Chair, Physics
Lev V. Gasparov, Ph.D. (Institute for Solid State Physics, Russia) Terry Presidential Professor, Professor, Physics

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Lakshmi Goel, Ph.D. (University of Houston) Associate Professor, Management
David H. Goff, Ph.D. (University of Massachusetts - Amherst) Professor, Communication
(Communication Studies)

Mauricio Gonzalez, Ph.D. (Florida State University) Vice President for Student and International Affairs; Professor (Affiliate Appointment), Leadership, School Counseling and Sports Management

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Stephen John Gosden, Ph.D. (Yale University) Assistant Professor, Music
Daniel R. Gottlieb, B.M. (University of Miami) Associate Professor, Music (Music)
Barry R. Greene, M.M. (University of South Florida) Professor, Music (Music)
Elizabeth Gregg, Ph.D. (Indiana University) Assistant Professor, Leadership, School Counseling and Sport Management

Caroline Guardino, (University of Arizona) Assistant Professor, Exceptional, Deaf and Interpreter Education

Gregory Gundlach, Ph.D. (University of Tennessee) Professor and Coggin Distinguished Professor of Marketing, Marketing and Logistics

Saurabh Gupta, Ph.D. (University of Georgia) Associate Professor, Management (Management Information Systems)

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H
Courtney Hackney, Ph.D. (Mississippi State University) Director, Coastal Biology Flagship Program and Professor, Biology

Jenny K. Hager, MFA (San Jose State University) Associate Professor, Art and Design (Sculpture)
Donald R. Haley, Ph.D. (University of North Carolina at Chapel Hill) Associate Professor, Public Health (Health Administration)

James Hall, D.M.A. (Rice University) Assistant Professor, Music (Voice)
Katrina W. Hall, Ph.D. (University of Florida) Associate Professor, Childhood Education (Pre-K and Primary Education)

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Sami M. Hamid, Ph.D. (Texas A \& M University) Associate Professor, Mathematics and Statistics (Mathematics)

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Paula Horvath-Neimeyer, Ph.D. (University of Florida) Instructor, Communication (Journalism)
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Jerry Johnson, Ph.D. (Ohio University) Associate Professor, Leadership, Counseling and Sport Management

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## K

Rahul W. Kale, Ph.D. (University of Maryland) Associate Professor, Management (Management)
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Kyle Keith, M.F.A. (New York Academy of Art) Instructor, Art and Design
Stacy Keller, Ed.D.IEd.S. (University of Central Florida) Assistant Professor, Childhood Education
Chau J. Kelly, Ph.D. (University of California - Davis) Assistant Professor, History
Ronald F. Kephart, Ph.D. (University of Florida) Associate Professor, Sociology and Anthropology (Anthropology)
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William Klostermeyer, Ph.D. (University of Florida) Professor, Computing
Hans-Herbert Koegler, Ph.D. (Der Johann Wolfgang Goethe-University of Frankfurt am Main) Professor and Chair, Philosophy
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L
Kenneth K. Laali, Ph.D. (University of Manchester) Professor, Chemistry
Corinne Labyak, MSH (University of North Florida) Assistant Professor, Nutrition and Dietetics

Reinhold P. Lamb, Ph.D. (Florida State University) Professor and Jody and Layton Smith Distinguished Professor of Finance, Accounting and Finance (Finance)
J. David Lambert, Ph.D. (University of Florida) Associate Professor, Construction Management, and Director of the Advanced Weather Information Systems (AWIS) Laboratory

Christos Lampropoulos, Ph.D. (University of Florida) Assistant Professor, Chemistry
Amy Lane, Ph.D. (Georgia Institute of Technology) Assistant Professor, Chemistry
Lori Y. Lange, Ph.D. (University of Wisconsin - Milwaukee) Associate Professor, Psychology
Erin Largo-Wight, Ph.D. (University of Florida) Associate Professor, Public Health
Wanda LaStrapes, Ph.D. (Old Dominion University) Assistant Professor, Foundations and Secondary Education

Carol Ledbetter, Ph.D. (University of Texas, Austin) Professor, Nursing
Juliana K. Leding, Ph.D. (University of Arkansas) Associate Professor, Psychology
Chunsik Lee, Ph.D. (University of Florida) Assistant Professor, Communication
Hyung-Seok Lee, Ph.D. (University of Florida) Assistant Professor, Communication
Jason W. Lee, Ph.D. (Florida State University) Associate Professor, Leadership, School Counseling and Sports Management (Sport Management)

Jung-Gyo Lee, Ph.D. (University of Florida) Associate Professor, Communications (Advertising)
Michael Lentz, Ph.D. (University of Alabama at Birmingham) Associate Professor, Biology
Christopher T. Leone, Ph.D. (University of Georgia) Professor, Psychology
Tru Leverette, Ph.D. (University of Florida) Associate Professor, English
Ronald T. Libby, Ph.D. (University of Washington) Professor, Political Science and Public Administration

Beyong Lim, Ph.D. (Louisiana State University and A\&M) Assistant Professor, Construction Management

Bevin Livingston, Ph.D., P.T., A.T.C. (Emory University) Assistant Professor, Clinical and Applied Movement Sciences

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Lillia M. Loriz, Ph.D. (George Mason University) A.R.N.P., B.C., Professor, Director, Nursing (Nursing Administration); Interim Chair, Clinical and Applied Movement Sciences

Marcelle C. Lovett, Ed.D. (University of Florida) Assistant Professor, Leadership, School Counseling and Sports Management (Educational Leadership)

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Ronald A. Lukens-Bull, Ph.D. (Arizona State University) Associate Professor, Sociology and

Clark D. Lunberry, Ph.D. (University of Wisconsin - Milwaukee) Associate Professor, English (English)

Mary Lundy, DPT (University of Michigan) Assistant Professor, Clinical and Applied Movement Sciences (PT)

Marsha H. Lupi, Ed.D. (Teachers College, Columbia University) Associate Dean, College of Education and Human Services, Associate Professor, Exceptional Student and Deaf Education

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M
Charlotte N. Mabrey, M.M. (University of Illinois) Professor, Music (Music); Distinguished Professor, 2001

John B. MacArthur, Ph.D. (University of Wales, U.K.) FCCA, Kathryn and Richard Kip Professor of Accounting, Accounting and Finance (Accounting)

Jane MacGibbon, Ph.D. (University of Cambridge) Associate Professor, Physics
Eileen Maguire, M.A. (University of North Florida) Instructor, English
Peter Magyari, Ph.D. (University of Florida) Associate Professor, Clinical and Applied Movement Sciences (Exercise Science)

Maged Malek, Ph.D. (University of Central Florida) Associate Professor and Chair, Construction Management

Rebecca A. Marcon, Ph.D. (Louisiana State University) Professor, Psychology
Dennis J. Marks, M.M. (University of Miami) Associate Professor, Music (Studio Jazz Writing)
Kenneth E. Martin, Ph.D. (University of Notre Dame) Professor, Computing
Dominick Martorelli, M.F.A. (University of South Florida) Associate Professor, Art and Design (Photography)

Paul M. Mason, Ph.D. (University of Texas) Professor, Economics and Geography (Economics)
Susan Massey, MLIS (Louisiana State University) University Librarian
Jonathan Matheson, Ph.D. (University of Rochester) Assistant Professor, Philosophy
Samuel Mathies, MA (University of California, Northridge) Instructor, Communication
Jason I. Mauro, Ph.D. (University of Connecticut) Associate Professor, English
Sarah Anne Mattice, M.A. (University of Hawaii at Manoa) Assistant Professor, Philiosophy
Brenda Maxey-Billings, M.A. (University of North Florida) Instructor, Writing Program
Sophie Maxis, Ph.D. (University of Florida) Assistant Professor, Leadership, School Counseling and Sport Management

John P. McAllister, Ph.D. (Pennsylvania State University) CPA, Professor, Accounting and Finance (Accounting)

James McCague, M.B.A. (University of North Florida) Instructor, Accounting and Finance (Finance)
Clayton McCarl, Ph.D. (City University of New York) Assistant Professor, Languages, Literatures and Culture (Spanish)

Jane McCarthy, Ph.D., A.R.N.P., F.A.A.N. (Uniformed Services University of the Health Services)

John P. McDonough, Ed.D. (Drake University) C.R.N.A., A.R.N.P., Professor and Director, Nurse Anesthesia Track, Nursing

Ross McDonough, MSW (New York University) Instructor, Sociology and Anthropology (Social Work)

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D. Courtenay McLeland, M.S. (Florida State University) Associate University Librarian

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Jan Meires, Ed.D. (University of North Florida) A.R.N.P., B.C., Professor, Nursing
Gerald U. Merckel, Ph.D. (University of Tennessee) Professor, Electrical Engineering
Julie Merten, M.S.H. (University of North Florida) Instructor, Public Health
Paul Mettler, Ed.D. (Northeastern University) Associate Professor, Clinical and Applied Movement Sciences

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Aleksandra Sasha Milicevic, Ph.D. (University of California - Los Angeles) Assistant Professor, Sociology and Anthropology (Sociology)

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Patrick Monaghan, Ph.D. (Bowling Green State University) Professor, Nursing
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Michele J. Moore, Ph.D. (University of Florida) CHES Professor, Public Health
Paul M. Mosley, M.S.L.S. (Florida State University) Associate University Librarian
Thomas Mullen, Ph.D. (Pennsylvania State University) Assistant Professor, Chemistry
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Frederick Nelson, M.S. (Kansas State University) Instructor, Foundations and Secondary Education

Lauren O'Shields Newton, M.L.I.S. (University of South Carolina) Associate University Librarian
Jody Nicholson, Ph.D. (University of Notre Dame) Assistant Professor, Psychology
Betsy Nies, Ph.D. (University of Florida) Associate Professor, English
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David Nyquist, Ph.D. (University of Northern Illinois) Laboratory Lecturer, Chemistry

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Judith D. Ochrietor, Ph.D. (Ohio State University) Associate Professor and Pre-Med Advisor, Biology

Barbara J. Olinzock, Ed.D. (University of North Florida) R.N., Associate Professor, Nursing
Jurgen Osterbrink, Ph.D., R.N.A. (University of Leuven, Belgium) Clinical Professor, Nursing
Ronghua (John) Ouyang, Ed.D. (Indiana University of Pennsylvania) Professor, Childhood Education

Crystal L. Owen, Ph.D. (Ohio State University) Associate Professor, Management (Management)
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P
Jonathon Pabalate, D.N.P., C.R.N.A. (Florida International University) Instructor, Nursing
Marcus Pactor, MFA (Texas State University) Instructor, Writing Program
Jae Hee Park, Ph.D. (University of Tennessee, Knoxville) Assistant Professor, Communication
John H. Parmelee, Ph.D. (University of Florida) Professor and Chair, Communication (Journalism)
Nirmal Patel, Ph.D. (Sardar Patel University) Laboratory Lecturer, Physics
Karen B. Patterson, Ph.D. (Kent State University) Associate Professor, Exceptional Student and Deaf Education and Chair, Exceptional Student Education

Richard F. Patterson, Ph.D. (Kent State University) Professor, Mathematics and Statistics (Mathematics)

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Krista E. Paulsen, Ph.D. (University of California-Santa Barbara) Associate Professor and Chair, Sociology and Anthropology (Sociology)

Steven K. Paulson, Ph.D. (Iowa State University) Blanche and Luther Coggin Professor of Management; Management (Management); Distinguished Professor, 1989, Emeritus Professor

John Pechonick, M.S. (University of Missouri, Rolla) Laboratory Lecturer, Chemistry

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Susan M. Perez, Ph.D. (University of California, Riverside) Associate Professor, Psychology (Developmental Psychology)

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Stephynie Chapman Perkins, Ph.D. (University of Florida) Associate Professor, Communication (Public Relations)

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## Q

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## R

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Gordon Rakita, Ph.D. (University of New Mexico) Associate Professor, Sociology and Anthropology (Anthropology)

Maria Ramdas, M.A. (University of North Florida) Resident Clinical Faculty, Special Education
Don Resio, Ph.D. (University of Virginia) Director, Taylor Engineering Research Institute and
F. Dan Richard, Ph.D. (Texas Christian University) Director, Office of Faculty Enhancement, and Associate Professor, Psychology

Julie Richmod, Ph.D. (University of Connecticut) Assistant Professor, Biology
Phillip S. Riner, Ed.D. (University of North Carolina-Greensboro) Professor, Foundations and Secondary Education

Len Roberson, Ph.D. (Gallaudet University) Dean of the Graduate School, Assistant Vice President for Academic Technology and Associate Professor, Exceptional Student and Deaf Education

Barbara Roberts, M.A. (University of North Florida) Instructor, English
Katherine Robinson, Ph.D. (University of Florida) R.N., CCNS, Associate Professor, Nursing

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Robert F. Roggio, Ph.D. (Auburn University) Professor, Computing
Cliff Ross, Ph.D. (University of California, Santa Barbara) Associate Professor and Assistant Chair, Biology

Anthony M. Rossi, Ph.D. (Florida State University) Professor and Graduate Coordinator, Biology
Connie Roush, Ph.D. (University of Washington) R.N., Associate Professor, Nursing
Paul W. Rowe, MAT (Jacksonville University) Instructor, Mathematics and Statistics (Mathematics)
Dawn Russell, Ph.D. (Northwestern University) Assistant Professor, Transportation and Logistics Back to top

## S

Ping Sa, Ph.D. (University of South Carolina) Professor, Mathematics and Statistics (Statistics)
Otilia L. Salmón, Ph.D. (University of Florida) Associate Professor, Childhood Education (Foundations and Secondary Education - ESOL/Multicultural Education)

Ajay Samant, Ph.D. (Indiana University Bloomington) Dean, Coggin College of Business; Professor, Finance
A. Coskun Samli, Ph.D. (Michigan State University) Research Professor, Marketing and Logistics (Marketing and International Business)

Allan N. Sander, Ph.D. (Florida State University) Professor, Foundations and Secondary Education (Physical Education)

Jane Sander, M.S.N., A.R.N.P. (University of North Florida) Instructor, Nursing
Thobias Sando, Ph.D. (Florida State University) Associate Professor, Engineering (Civil Engineering)

Daniel Santavicca, Ph.D. (Yale University) Assistant Professor, Physics
Dawn M. Saracino, M.H.S. (University of Florida) P.T., NCS, Instructor, Clinical and Applied Movement Sciences (Physical Therapy)

Claudia Scaff, M.F.A. (Iowa State University) Associate Professor, Art and Design (Graphic Design)

Elinor A. Scheirer, Ph.D. (Ohio State University) Acting Chair and Professor, Leadership, School Counseling and Sports Management (Curriculum Studies, Qualitative Research)

Oliver Schnusenberg, Ph.D. (Florida Atlantic University) Professor, Accounting and Finance (Finance)

Alexandra Schonning, Ph.D. (University of Central Florida) Associate Professor, Engineering (Mechanical Engineering)

Rebecca Schumacher, Ed.D. (University of Maine) Assistant Professor, Leadership, School Counseling and Sports Management

Robert W. Schupp, J.D. (University of Florida) Associate Professor, Management (Business Law)
David Schwam-Baird, Ph.D. (Tulane University) Associate Professor, Political Science and Public Administration

Shira Schwam-Baird, Ph.D. (Tulane University) Professor and Coordinator, Languages, Literatures and Culture (French)

Cynthia G. Scott, Ph.D. (Southern Illinois University) Professor, Public Health (Rehabilitation Counseling)

James B. Scott, M.M. (Florida International University) Associate Professor, Music (Music)
Renee S. Scott, Ph.D. (University of California-Berkeley) Professor, Languages, Literatures and Culture (Spanish)

Janice Seabooks-Blackmore, Ph.D. (Florida State University) Associate Professor, Exceptional Student and Deaf Education (Special Education)

Claudia Sealey-Potts, Ph.D. (Auburn University) Assistant Professor, Nutrition and Dietetics
Pali Sen, Ph.D. (Ohio State University) Professor and Graduate Director, Mathematics and Statistics (Statistics)

Thomas S. Serwatka, Ph.D. (Kent State University) Vice President and Chief of Staff; Professor, Exceptional Student and Deaf Education (Deaf Education)

Behrooz Seyed-Abbassi, Ph.D. (University of Oklahoma) Associate Professor, Computing
Jacqueline Shank, M.S. (Florida State University) R.D., Instructor, Nutrition and Dietetics
Sherry Shaw, Ed.D. (University of Memphis) Munoz Presidential Professor and Professor, Exceptional Student and Deaf Education (ASL/English Interpreting)

David L. Sheffler, Ph.D. (University of Wisconsin-Madison) Associate Professor, History
Simon Shiao, D.M.A. (State University of New York at Stony Brook) Associate Professor, Music (Music)

Suzanne Simon, Ph.D. (New School University) Assistant Professor, Sociology and Anthropology (Anthropology)

Alicia Sitren, Ph.D. (University of Central Florida) Assistant Professor, Criminology and Criminal Justice

Gary L. Smart, D.M.A. (Yale University) Professor, Music; Presidential Professor
Jillian Smith, Ph.D. (Pennsylvania State University) Associate Professor, English
Kelly J. Smith, Ph.D. (Rutgers University) Associate Professor, Biology
Robert Smith, Ph.D. (The University of Iowa) Instructor, Foundations and Secondary Education
Roberto Soares, Ph.D. (University of Florida) Assitant Professor, Construction Management

James Sorce, M.B.A (University of North Florida) Academic Advisor and Instructor, Construction Management

Aaron Spaulding, Ph.D. (Texas A\&M Health Science Center) Assistant Professor, Public Health
Jennifer Spaulding-Givens, Ph.D. (Florida State University) Assistnat Professor, Sociology and Anthropology (Social Work)

Carol Spector, M.H.R.M. (University of North Florida) Instructor, Management
Elaine Staley, MA (Michigan State University) Director, Medical Lab Sciences
Nile V. Stanley, Ph.D. (University of Florida) Associate Professor, Childhood Education (Primary and Elementary Education)

Robert V. Stern, Ph.D. (Florida State University) Laboratory Lecturer, Chemistry
Carolyn B. Stone, Ed.D. (University of Florida) Professor, Leadership, School Counseling and Sports Management (School Counselor Education)

Harriet A. Stranahan, Ph.D. (University of Washington) Professor, Economics and Geography (Economics)

Brian J. Striar, Ph.D. (Claremont Graduate School) Associate Professor and Chair, English
Jenny Stuber, Ph.D. (Indiana University) Associate Professor, Sociology and Anthropology (Sociology)

Michael Stultz, M.A. (McDaniel College) Instructor of American Sign Language, Exceptional Student and Deaf Education

David R. Swanson, Ph.D. (University of Arkansas) Assistant Professor, Marketing and Logistics
Kristi Sweeney, Ph.D. (University of New Mexico) Assistant Professor, Leadership, School
Counseling and Sports Management
Janice Swenson, Ph.D. (Tulane University) Laboratory Lecturer, Biology

Alissa Hurwitz Swota, Ph.D. (University at Albany, State University of New York) Assistant Professor, Philosophy

Susan Syverud, Ph.D. (University of Wisonsin - Madison) Associate Professor, Exceptional Student and Deaf Education

## T

Madalina Tanase, Ph.D. (University of Nevada at Las Vegas) Assistant Professor, Foundations and Secondary Education

Diane L. Tanner, M.Acc (University of North Florida) CPA, Senior Instructor, Accounting and Finance (Accounting)

Cara Suzanne Tasher, D.M.A. (University of Cincinnati) Associate Professor, Music (Music)
Marjory Templeton, M.B.A. (University of Rochester) Instructor, Management (Management Information Systems)

Mamadou Thiam, Ph.D. (University of Rhode Island) Laboratory Lecturer, Chemistry
Brian Patrick Thornton, Ph.D. (Univeristy of Utah) Professor, Communication
Robert L. Thunen, Ph.D. (Northwestern University) Associate Professor, Sociology and Anthropology (Anthropology)

Randall C. Tinnin, D.M.A. (Rutgers University) Associate Professor and Chair, Music (Trumpet)
Murat Tiryakioglu, Ph.D. (University of Birmingham, UK) Professor and Director, Engineering
Michael Toglia, Ph.D. (University of Colorado) Professor and Chair, DPsychology
Jingcheng Tong, Ph.D. (Wayne State University) Professor, Mathematics and Statistics (Mathematics)

Chirstopher Winston Trice, M.F.A. (University of Illinois at Chicago) Assistant Professor, Art and Design (Photography)

Heather Truelove, Ph.D. (Washington State University) Assistant Professor, Psychology
Delores Truesdell, D.C.N. (University of Medicine and Dentistry of New Jersey) Assistant Professor, Nutrition and Deitetics

Ma. Teresa Tuason, Ph.D. (State University of New York, Albany) Professor, Public Health

Mark A. Tumeo, Ph.D. (University of California Davis) Dean, College of Computing, Engineering and Construction and Professor, Engineering

Russell Turney, M.A. (George Mason University) Instructor, English
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## U

Karthikeyan Umapathy, Ph.D. (Pennsylvania State University) Associate Professor, Computing
Verna Urbanski, M.A. (University of Kansas) M.L.S. (State University of New York — Albany) University Librarian

## V

Kristen Vandenberg, M.S.N., R.N. (Georgia Baptist College of Nursing of Mercer University) Assistant Professor, Nursing

Cheryl A. Van Deusen, Ph.D. (University of South Carolina) CHA, CHE, Professor, Management (International Management)

Susan Vasana, Ph.D. (Queen's University) Associate Professor, Engineering (Electrical Engineering)

Robert A. Vergenz, Ph.D. (Rutgers University) Associate Professor, Chemistry
Maria Elena Versari, Ph.D. (Scuola Narmale Superiore - Pisa, Italy) Assistant Professor, Art and Design (Art History)

Brenda Vose, Ph.D. (University of Cincinnati) Assistant Professor, Criminology and Criminal Justice

W

David Waddell, Ph.D. (Duke University) Assisant Professor, Biology
Debra Wagner, M.S. (University of Utah) A.R.N.P., C.N.M., Assistant Professor and RN-BSN Coordinator, Nursing

Robb M. Waltner, M.L.S. (University of South Florida) University Librarian

Dongyuan "Debbie" Wang, Ph.D. (Purdue University) Associate Professor, Psychology (Cognitive Psychology)

Kening Wang, Ph.D. (University of South Carolina) Associate Professor, Mathematics and Statistics (Mathematics)

Kristine Webb, Ph.D. (University of New Mexico) Director, Disability Resource Center and Professor, Exceptional Student and Deaf Education

Christine Weber, Ph.D. (Texas A\&M University) Associate Professor, Childhood Education (Elementary and Gifted Education)

Stephanie Weiss, MS (Florida State University) Assistant University Librarian
Donni Welch-Rawls, MS (University of North Florida) Instructor, Clinical and Applied Movement Sciences

Bart Welling, Ph.D. (University of Virginia) Associate Professor, English
Jennifer K. Wesely, Ph.D. (Arizona State University) Associate Professor and Coordinator for the MSCJ Program, Criminology and Criminal Justice

John W. White, Ph.D. (University of Colorado) Associate Professor, Foundations and Secondary Education

Sharon T. Wilburn, Ph.D. (University of Florida) Professor, Public Health
Justina M. Wilcox, B.S. (Wayne State University) Laboratory Lecturer, Biology
JeffriAnne Wilder, Ph.D. (University of Florida) Assistant Professor, Sociology and Anthropology (Sociology)

Michael C. Wiley, Ph.D. (New York University) Professor, English

Jeffry Will, Ph.D. (University of Massachusetts) Professor, Sociology and Anthropology (Sociology) and Director of Center for Community Initiatives

Lunetta M. Williams, Ph.D. (University of Florida) Associate Professor, Childhood Education (Literacy Education)

Steven A. Williamson, D.B.A. (Memphis State University) Director, PAPER Institute and Institute of Management Development and Organizational Quality; Professor, Management (Management)

Hope Elisabeth (Bess) Wilson, Ph.D. (University of Connecticut) Foundations and Secondary Education

James Wirth, Ph.D. (Purdue University) Assistant Professor, Psychology
Peter Wludyka, Ph.D. (Clemson University) Professor, Mathematics and Statistics (Statistics)
Carol Woodson, Ph.D. (University of Florida) Assistant Professor, Construction Management
Mark E. Workman, Ph.D. (University of Pennsylvania) Professor, English
Yongan Wu, Ph.D. (University of Oklahoma) Assistant Professor, Languages, Literatures and Culture

Richmond D. Wynn, Ph.D. (University of Florida) Assistant Professor, Public Health

Y

Gabriel J. Ybarra, Ph.D. (University of Wisconsin - Milwaukee) Associate Professor and Coordinator for the MACP Program, Psychology

## Z

Pamela A. Zeiser, Ph.D. (Clairmont Graduate University) Associate Professor, Political Science and Public Administration

Mei-Qin Zhan, Ph.D. (Indiana University) Professor, Mathematics and Statistics (Mathematics)
Ping Ying Zhang, Ph.D. (Norwegian School of Management BI) Assistant Professor, Management
Mei Zhao, Ph.D. (Virginia Commonwealth) Associate Professor, Public Health (Health Administration)


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## University Emeriti Faculty

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E F G J K M O P R S T U V W Y

## A

Afesa M. Adams, Ph.D. (University of Utah) Professor Emerita of Psychology
Ronald J. Adams, Ph.D. (University of Georgia) Professor Emeritus of Marketing

B
H. Eugene Baker III, Ph.D. (University of Florida) Professor Emeritus of Management

Marianne B. Barnes, Ph.D. (University of Texas) Professor Emerita of Foundations and Secondary Education (Science Education)

Homer L. Bates, Ph.D. (University of Illinois) CPA, Professor, Accounting and Finance (Accounting)

Richard Bizot, Ph.D. (University of Virginia) Professor Emeritus of English; Distinguished Professor
Lenard C. Bowie, D.M.A. (Yale University) Professor Emeritus of Music
Ray Bowman, Ph.D. (California Institute of Technology) Professor Emeritus of Chemistry
John M. Browning, Ph.D. (University of Georgia) Professor Emeritus of Marketing
Eileen D. Brady, MS (Florida State University) University Librarian Emerita

## C

William H. Caldwell, Ph.D. (Rutgers University) Professor Emeritus of Mathematics

Henry J. Camp, Ph.D. (University of Nebraska) Professor Emeritus of Sociology
Thomas G. Carpenter, Ph.D. (University of Florida) President Emeritus

Yap Siong Chua, Ph.D. (SUNY Stony Brook) Professor Emeritus of Computer Science
Dale L. Clifford, Ph.D. (University of Tennessee - Knoxville) Associate Professor Emerita, History
Kathleen F. Cohen, M.S.L.S. (Florida State University) University Librarian Emerita
Frederick M. Cole, Ed.D. (University of Florida) Professor Emeritus of Accounting
Sally A. Coltrin, Ph.D. (University of Missouri) Professor Emerita of Management
George W. Corrick, Ed.D. (University of Florida) Associate Professor Emeritus of Education
Neal S. Coulter, Ph.D. (Georgia Institute of Technology) Professor Emeritus of Computing and Dean Emeritus, College of Computing, Engineering and Construction

James B. Crooks, Ph.D. (Johns Hopkins University) Professor Emeritus of History; Distinguished Professor

D
Mary Elizabeth D'Zamko, Ed.D. (University of Florida) Professor Emerita of Education
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## E

Paul Eggen, Ph.D. (Oregon State University) Professor Emeritus of Education

F

Gary R. Fane, Ph.D. (University of Florida) Professor Emeritus of Management
Andrew Farkas, M.L.S. (University of California - Berkeley) Director Emeritus, University Library; Distinguished Professor

Joan Farrell, Ph.D. (SUNY Buffalo) Dean Emerita, Brooks College of Health
Betty M. Flinchum, Ph.D. (Louisiana State University) Professor Emerita of Curriculum and Instruction

Linda Foley, Ph.D. (University of Florida) Professor Emerita of Psychology
Patricia Foster, EdD (University of Florida) Associate Professor and Chair Emeritus of Nursing
Jack S. Funkhouser, M.M. (Vanderbilt-Peabody) Director Emeritus of Instructional Communications
Elizabeth L. Furdell, Ph.D. (Kent State University) Professor Emerita, Department of History; Distinguished Professor

## G

Charles M. Galloway, Ed.D. (University of Florida) Professor Emeritus of Educational Leadership
Dennis L. Gay, Ph.D. (Florida State University) Associate Professor Emeritus, Department of Physics

Vernice "Bunky" Green, MM (Northwestern University) Professor Emeritus, Music and Director Emeritus of the Jazz Studies Program

Mary L. Grimes, Ph.D. (University of Florida) Professor Emerita of Education

Bruce Gutnecht, Ed.D. (Wayne State University) Professor Emeritus of Childhood Education
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## H

Jerome Hallan, Dr.P.H. (University of North Carolina) Professor Emeritus of Health Science
Shirley Hallblade, Ph.D. (University of Iowa) Dean Emerita and University Librarian Emerita
Gary L. Harmon, Ph.D. (Indiana University) Professor Emeritus of English; Founding Chair (Department of Language and Literature)

John M. Hein, M.S.L.S. (Wayne State University) University Librarian Emeritus
William G. Herrold, Jr., Ed.D. (Brigham Young University) Professor Emeritus of Curriculum and Instruction

Dennis M. Holt, Ph.D. (Ohio State University) Professor Emeritus of Foundations and Secondary Education

Anne H. Hopkins, Ph.D. (Syracuse University) Professor Emerita, Political Science
Jack T. Humphries, Ph.D. (University of Florida) Professor Emeritus of Physics
Jay S. Huebner, Ph.D. (University of California - Riverside) Professor Emeritus of Physics
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J

Edward Johnson, Ph.D. (Michigan State University) Professor Emeritus of Management
Robert P. Jones, M.S.L.S. (Florida State University) University Librarian Emeritus
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K
Jerzy J. Karylowski, Ph.D. (University of Warsaw) Professor Emeritus, Psychology
A. David Kline, Ph.D. (University of Wisconsin - Madison) Professor Emeritus of Philosophy

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L

Paul E. Ladnier, M.F.A. (Syracuse University) Associate Professor Emeritus, Department of Art and Design (Painting/Drawing/lllustration)

Roy L. Lassiter Jr., Ph.D. (University of Florida) Vice President Emeritus
Thomas M. Leonard, Ph.D. (American University) Professor, Emeritus of History; Distinguished Professor

Leonard J. Lipkin, Ph.D. (University of Michigan) Professor Emeritus of Mathematics

M
John C. Maraldo, Ph.D. (University of Munich) Professor Emeritus of Philosophy
Frank S. McLaughlin, Ph.D. (University of Florida) Professor Emeritus of Management and Quantitative Methods; Distinguished Professor

David G. Moore, Ph.D. (University of Chicago) Professor Emeritus of Management

## 0

Charles E. Owens, Ed.D. (University of New Mexico) Professor, Professor Emeritus of Criminology and Criminal Justice

James M. Parrish, Ph.D. (University of North Carolina-Chapel Hill) Dean Emeritus, College of Business Administration

Jeanne B. Patterson, Ed.D. (Montana State University) Professor Emerita of Public Health (Rehabilitation Counseling)

Steven K. Paulson, Ph.D. (Iowa State University) Professor Emeritus of Management

Joseph M. Perry, Ph.D. (Northwestern University) Professor Emeritus of Economics
Robert C. Pickhardt, D.B.A. (Indiana University) Professor Emeritus of Management and Quantitative Methods
J. Patrick Plumlee, Ph.D. (Rice University) Associate Professor Emeritus, Political Science and Public Administration

William Prince, D.M. (University of Miami) Professor Emeritus of Music
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R
V. Lynne Raiser, Ed.D. (University of Florida) Professor Emerita of Special Education

Christine Rasche, Ph.D. (Washington Univerisity) Associate Professor Emerita of Criminology
William Roach, M.A. (University of Georgia) Professor Emeritus of Communication
Sidney B. Rosenberg, Ph.D. (Georgia State University) Associate Professor Emeritus, Accounting and Finance (Real Estate)

Samuel E. Russell, Ed.D. (University of Pennsylvania) Professor Emeritus of Education
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$S$
Lowell M. Salter, Ph.D. (University of Arkansas) Professor Emeritus of Marketing
Daniel Schafer, Ph.D. (University of Minnesota) Professor Emeritus of History; Distinguished Professor

Stephen L. Shapiro, Ph.D. (University of South Carolina) Professor Emeritus of Economics
Robert M. Siudzinski, Ph.D. (Arizona State University) Professor Emeritus of Special Education
William Slaughter, Ph.D. (Purdue University) Professor Emeritus of English; Distinguished Professor
G. Pritchy Smith, Ed.D. (University of North Texas) Professor Emeritus, Foundations and Secondary Education

Judith L. Solano, Ph.D. (Florida State University) Associate Professor Emerita, Computing
John J. Venn, Ph.D. (University of Florida) Professor Emeritus, Exceptional Student and Deaf

## T

Henry B. Thomas, DPA (University of Southern California), Associate Professor Emeritus, Public Adminstration
E. Allen Tilley, Ph.D. (University of Iowa) Professor Emeritus of English; Distinguished Professor

William H. Tomlinson, Ph.D. (American University) Professor Emeritus of Management

Earle C. Traynham, Ph.D. (University of South Carolina) Professor Emeritus of Economics, Dean Emeritus of the Coggin College of Business

Lucy B. Trice, Ph.D. (Texas Woman's University) A.R.N.P., B.C., Director Emerita, School of Nursing

## $\mathbf{U}$

Susana Urbina, Ph.D. (Fordham University) Professor Emerita of Psychology

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## V

Reza Vaghefi, Ph.D. (Michigan State University) Professor Emeritus of Management

Simin B. Vaghefi, Ph.D. (Michigan State University) Associate Professor Emerita of Nutrition
Royal W. VanHorn, Ph.D. (University of Nebraska) Professor Emeritus of Foundations and Secondary Education
K.S. Venkatasubban, Ph.D. (University of Kansas) Professor Emeritus of Chemistry

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W
Ellen Wagner, Ph.D. (University of Colorado) Associate Professor Emerita of Philosophy
Ellis F. White, Ed.D. (New York University) Dean Emeritus, College of Education and Human Services
C. Donald Wiggins, D.B.A. (Louisiana Tech University) CPA, Professor Emeritus of Finance

Kenneth T. Wilburn, Ph.D. (Florida State University) Associate Professor, Leadership, School Counseling and Sports Management (Educational Leadership)

Carolyn Williams, Ph.D. (University of California at Los Angeles) Associate Professor Emerita of History

William J. Wilson, Ph.D. (Texas A\&M University) Professor Emeritus of Statistics; Distinguished Professor

Charles N. Winton, Ph.D. (University of North Carolina-Chapel Hill) Professor Emeritus of Computing

Louis A. Woods, Ph.D. (University of North Carolina at Chapel Hill) Professor Emeritus, Economics and Geography (Economics and Geography)

Gerson Yessin, Mus.D. (Florida State University) Professor Emeritus and Founding Chair, Department of Music; Distinguished Professor


## Table of Contents

## Teaching, Scholarship, and Service Awards

- Distinguished Professors
- Outstanding Undergraduate Teacher Awards
- Outstanding Graduate Teaching Award
- Outstanding Faculty Scholarship Award
- Outstanding International Leadership Award
- Outstanding International Service Award
- Outstanding Faculty Service Award
- Outstanding Faculty Community Engaged Scholarship Award
- Outstanding Undergraduate Advisor Award


## Distinguished Professors

Dr. Bette J. Soldwedel, 1979
Dr. Jay S. Huebner, 1980
Dr. Frank S. McLaughlin, 1981
Dr. Linda A. Foley, 1982
Dr. Jay A. Smith Jr., 1982
Dr. Richard de R. Kip, 1983
Dr. Leonard J. Lipkin, 1984
Dr. Thomas M. Leonard, 1985
Dr. Gerson Yessin, 1986
Dr. Robert J. Drummond, 1987
Dr. Robert W. Loftin, 1988
Dr. Steven K. Paulson, 1989
Dr. William R. Slaughter, 1990
Mr. Andrew Farkas, 1991
Dr. James B. Crooks, 1992
Mr. William A. Brown, 1993
Dr. John C. Maraldo, 1994
Dr. Jerzy Karylowski, 1995
Dr. Daniel L. Schafer, 1996
Dr. E. Allen Tilley, 1997
Dr. David T. Courtwright, 1998
Dr. Richard B. Bizot, 1999
Dr. Chudley E. Werch, 2000
Ms. Charlotte N. Mabrey, 2001
Dr. Elizabeth L. Furdell, 2002

Dr. Kunisi S. Venkatasubban, 2003
Dr. William J. Wilson, 2004
Dr. B. Jay Coleman, 2005
Dr. Theophilus C. Prousis, 2006
Ms. Louise Freshman Brown, 2007
Dr. Pamela Chally, 2008
Dr. Jeffrey Steagall, 2009
Dr. David Fenner, 2010
Dr. Thomas M. Pekarek, 2011
Dr. Mina Baliamoune, 2012
Dr. Judith Rodriguez, 2013

## Outstanding Undergraduate Teacher Awards

Dr. William J. Herrold Jr., 1984
Dr. Robert W. Loftin, 1984
Dr. Yap S. Chua, 1985
Dr. Kenneth M. Jennings, 1985
Dr. E. Allen Tilley, 1986
Ms. Kathaleen C. Bloom, 1986
Dr. Christine E. Rasche, 1987
Dr. Sharon T. Weaver, 1987
Ms. Bettie M. Adams, 1988
Dr. Ray Bowman, 1988
Dr. Lawrence K. Carpenter, 1988
Dr. Virginia S. Raiser, 1988
Dr. Mary Sue Terrell, 1988
Dr. William J. Wilson, 1988
Dr. Mary Borg, 1989
Dr. Linda Foley, 1989
Dr. Elizabeth Furdell, 1989
Dr. John McEldowney, 1989
Dr. James Mittelstadt, 1989
Dr. Charles Winton, 1989
Dr. Joan Bray, 1990
Dr. Faiz Al-Rubaee, 1990
Dr. Paul M. Mason, 1990
Dr. F. Layne Wallace, 1990
Ms. Louise Brown, 1991
Dr. William F. Prince, 1991
Dr. M. Sue Terrell, 1991
Dr. Ellinor A. Scheirer, 1991
Dr. Kunisi S. Venkatasubban, 1991
Ms. Diana L. Tanner, 1992
Dr. Mary Elizabeth D'Zamko, 1992
Dr. Mary Lofton Grimes, 1992
Dr. Christine E. Rasche, 1992
Dr. Susan R. Wallace, 1992
Dr. Otilia Salmon, 1993
Dr. Tayeb Giuma, 1993
Dr. Reza Vaghefi, 1993
Mr. Paul Ladnier, 1993
Dr. William Herrold, 1993
Dr. Ping Sa, 1994
Dr. William Tomlinson, 1994
Dr. John Tucker, 1994
Dr. William J. Wilson, 1994
Dr. Simin Vaghefi, 1994
Dr. Edward A. Healy, 1995
Dr. Leonard J. Lipkin, 1995
Dr. Debra Murphy, 1995
Dr. Terry R. Tabor, 1995
Dr. Cheryl J. Frohlich, 1995

Dr. Jeffrey E. Michelman, 1995
Dr. Pamela S. Chally, 1996
Mr. Donald Zentz, 1996
Ms. Diana L. Tanner, 1996
Dr. Adel N. Boules, 1996
Dr. Joseph A. Butler, 1996
Dr. Paula Horvath-Neimeyer, 1996
Dr. Janet E. Bosnick, 1997
Dr. James B. Crooks, 1997
Dr. Virginia M. Duff, 1997
Dr. Bruce A. Gutknecht, 1997
Dr. Douglas M. Kleiner, 1997
Dr. Katherine M. Robinson, 1997
Dr. Michael P. Smith, 1997
Dr. David T. Courtwright, 1998
Dr. Patricia H. Foster, 1998
Dr. Betty G. Gilkison, 1998
Dr. Scott H. Hochwald, 1998
Dr. Edward A. Johnson, 1998
Dr. Samuel Kimball, 1998
Dr. Pamela A. Monteleone, 1998
Dr. Janice A. Wood, 1998
Dr. Faiz Al-Rubaee, 1999
Mr. Kevin S. Bales, 1999
Dr. Elizabeth L. Furdell, 1999
Dr. Doreen Radjenovic, 1999
Dr. Eric W. Robinson, 1999
Ms. Diana L. Tanner, 1999
Dr. Ellen M. Wagner, 1999
Dr. B. Jay Coleman, 2000
Dr. John A. Eisler, 2000
Dr. Cheryl J. Frohlich, 2000
Dr. William R. Holcomb, 2000
Dr. Rebecca A. Marcon, 2000
Dr. Debra L. Murphy, 2000
Dr. Jeffrey W. Steagall, 2000
Dr. David T. Courtwright, 2001
Dr. J. Michael Francis, 2001
Dr. Adel N. Boules, 2001
Dr. Michael Lentz, 2001
Dr. Kim B. Capriotti, 2001
Dr. Lilla M. Loriz, 2001
Dr. Yap S. Chua, 2001
Dr. Sharon C. Cobb, 2002
Dr. Daniel Dreibelbis, 2002
Dr. Roger E. Eggen, 2002
Dr. Edward A. Johnson, 2002
Dr. Hans Herbert Kögler, 2002
Dr. Kristine Webb, 2002
Dr. Pamela A. Zeiser, 2002
Dr. Sanjay P. Ahuja, 2003
Dr. Homer L. Bates, 2003
Dr. Peter Braza, 2003
Dr. Cory R. Fine, 2003
Dr. Len Roberson, 2003
Dr. Behrooz Seyed-Abbasi, 2003
Ms. Diane L. Tanner, 2003
Dr. Berrin A. Beasley, 2004
Dr. Kathaleen C. Bloom, 2004
Dr. Ray D. Bowman, 2004
Dr. Stuart J. Chalk, 2004
Dr. Rebecca A. Marcon, 2004
Dr. David M. Schwam-Baird, 2004
Dr. M. Lynn Woolsey, 2004

Dr. Faiz B. Al-Rubaee, 2005
Dr. Catherine Cavanaugh, 2005
Dr. David T. Courtwright, 2005
Dr. Jace Hargis, 2005
Dr. Christopher J. Joyce, 2005
Dr. Donna M. Keenan, 2005
Dr. Anthony M. Rossi, 2005
Mr. Mark Ari, 2006
Dr. Yemisi A. Bolumole, 2006
Dr. Nick W. Hudyma, 2006
Dr. Krista E. Paulsen, 2006
Dr. Gordon F. M. Rakita, 2006
Dr. M. Alexandra Schonning, 2006
Dr. Pamela A. Zeiser, 2006
Dr. Sharon C. Cobb, 2007
Dr. Daniel Dreibelbis, 2007
Dr. Jennifer J. Kane, 2007
Dr. Barbara J. Kruger, 2007
Mr. Dominick Martorelli, 2007
Dr. Daniel C. Moon, 2007
Dr. Thomas M. Pekarek, 2007
Dr. Frederick D. Pragasam, 2007
Mr. Russell Turney, 2007
Dr. Faiz B. Al-Rubaee, 2008
Dr. Peter Scott Brown, 2008
Dr. Dale Casamatta, 2008
Dr. Matt R. Gilg, 2008
Dr. Karen B. Patterson, 2008
Dr. Ping Sa, 2008
Dr. Dong-Yuan (Debbie) Wang, 2008
Dr. Christine L. Weber, 2008
Dr. Sharon T. Wilburn, 2008
Mr. Mark Ari, 2009
Dr. Mina Baliamoune-Lutz, 2009
Ms. Melissa Bush, 2009
Dr. Andres Gallo, 2009
Dr. Chris Leone, 2009
Dr. Jeffrey Michelman, 2009
Dr. Judy Ochrietor, 2009
Dr. Barbara Olinzock, 2009
Dr. Jennifer Wesely, 2009
Mr. William Ahrens, 2010 (Nursing)
Dr. Emily Douglass, 2010 (Art and Design)
Dr. Adel El-Saftey, 2010 (Engineering)
Dr. Paul Fadil, 2010 (Management)
Dr. Michele Moore, 2010 (Public Health)
Mrs. Diana Tanner, 2010 (Accounting and Finance)
Dr. Cara Tasher, 2010 (Music)
Dr. Rico Vitz, 2010 (Philosophy)
Dr. Pamela Zeiser, 2010 (Political Science and Public Adminstration)
Dr. Nancy Correa-Matos, 2011 (Nutrition and Dietetics)
Dr. Cynthia L. Cummings, 2011 (Nursing)
Dr. Reham Eltantawy, 2011 (Marketing and Logistics)
Ms. Jennifer Hager, 2011 (Art and Design)
Dr. Katrina W. Hall, 2011 (Childhood Education)
Dr. Cliff Ross, 2011 (Biology)
Dr. JeffriAnne Wilder, 2011 (Sociology and Anthropology)
Dr. Lunetta M. Williams, 2011 (Childhood Education)
Dr. Mei Zhao, 2011 (Public Health)
Dr. Erin K. Bennett, 2012 (Music)
Ms. Alison J. Bruey, 2012 (History)
Dr. Sharon C. Cobb, 2012 (Economics and Geography)
Dr. Judith Ochrietor, 2012 (Biology)
Mr. Mark Ari, 2013 (English)

Dr. Krzysztof K. Biernacki, 2013 (Music)
Dr. Richard H. Chant, 2013 (Foundations and Secondary Education)
Dr. D. Rob Haley, 2013 (Public Health)
Ms. Louanne B. Hawkins, 2013 (Honors and Scholarship Program)
Mr. Stephen Heywood, 2013 (Art and Design
Dr. Clarence B. Hines, 2013 (Music)
Dr. Lori Lange, 2013 (Psychology)
Dr. Pamela A. Monteleone, 2013 (English)
Dr. David Waddell, 2013 (Biology)

## Outstanding Graduate Teaching Award

Dr. Elinor A. Scheirer, 2007
Dr. Lynne Carroll, 2008
Dr. Tes Tuason, 2009 (Psychology)
Dr. Dan Moon, 2010 (Biology)
Dr. J. Michael Francis, 2011 (History)
Dr. Jennifer K. Weseley, (Criminology and Criminal Justice)
Dr. Christopher A. Janson, 2012 (Leadership, School Counseling, and Sport Management)
Dr. Jeffrey E. Michelman, 2013 (Accounting and Finance)
Dr. Sherry L. Shaw, 2013 (Exceptional, Deaf and Interpreter Education)
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## Outstanding Faculty Scholarship Award

Dr. Denis R. Bell, 1998
Dr. Chudley E. Werch, 1998
Dr. Christopher T. Leone, 1999
Dr. Kunisi S. Venkatasubban, 1999
Mr. Andrew Farkas, 2000
Dr. Iver Iversen, 2000
Dr. Jerzy J. Karylowski, 2001
Dr. A. Coskun Samli, 2001
Dr. Thomas L. Barton, 2002
Dr. David T. Courtwright, 2002
Dr. Linda A. Foley, 2002
Dr. B. Jay Coleman, 2003
Dr. Daniel L. Schafer, 2003
Dr. Cynthia A. Nyquist-Battie, 2004
Dr. Theophilus C. Prousis, 2004
Ms. Louise F. Brown, 2005
Dr. Thomas M. Pekarek, 2005
Dr. Elizabeth L. Furdell, 2006
Dr. A. Samuel Kimball, 2006
Dr. Anthony M. Rossi, 2007
Dr. William F. Klostermeyer, 2008
Dr. Jeffrey E. Michelman, 2008
Dr. Mina Baliamoune-Lutz, 2009
Dr. Carolyn Stone, 2009
Dr. Lev V. Gasparov, 2010 (Physics)
Dr. Richard F. Patterson, 2010 (Mathematics and Statistics)
Dr. C. Dominik Guess, 2011 (Psychology)
Dr. John D, Hatle, 2011 (Biology)
Dr. David T. Courtwright, 2012 (History)
Dr. Paul A. Fadil, 2012 (Management)
Dr. Ma Teresa Tuason, 2012 (Public Health)
Dr. Michele J. Moore, 2013 (Public Health)
Dr. Dag E. Naslund, 2013 (Management)
Dr. Adel K. El Safty, 2013 (Civil Engineering)

## Outstanding International Leadership Award

Dr. J. Michael Francis, 2009
Dr. Mei Zhao, 2009
Dr. Pamela Zeiser, 2010 (Political Science and Public Administration)
Dr. Rob Haley, 2010 (Public Health)
Dr. Mina Baliamoune-Lutz, 2011 (Economics and Geography)
Dr. Debra Murphy, 2011 (Art and Design)
Dr. Leslie Kaplan, 2012 (Honors Program)
Dr. Paul A. Fadil, 2012 (Management)

## Outstanding International Service Award

Greshka German, 2009
Mary Beth Janson, 2010 (Medical Compliance)
Dr. Leslie Kaplan, 2012 (Honors Program)
Dr. Paul A. Fadil, 2012 (Management)

## Outstanding Faculty Service Award

Dr. Judith L. Solano, 1998
Dr. Stephen L. Shapiro, 1998
Dr. Christine E. Rasche, 1999
Dr. Elinor A. Scheirer, 1999
Ms. Kathleen F. Cohen, 2000
Ms. Diane L. Tanner, 2000
Dr. Faiz Al-Rubaee, 2001
Dr. William H. Tomlinson, 2001
Dr. Ray D. Bowman, 2002
Dr. Paul M. Mason, 2002
Dr. Lucy B. Trice, 2002
Dr. B. Jay Coleman, 2003
Dr. Leonard J. Lipkin, 2003
Dr. Paula H. Horvath-Neimeyer, 2004
Dr. Judith C. Rodriguez, 2004
Dr. Kathaleen C. Bloom, 2005
Dr. Pamela S. Chally, 2005
Dr. Christopher T. Leone, 2006
Dr. Jeffrey E. Michelman, 2006
Dr. Jeffrey W. Steagall, 2007
Dr. Kristine Webb, 2007
Dr. Candice C. Carter, 2008
Dr. J. Patrick Plumlee, 2008
Dr. Sharon Cobb, 2009
Ms. Diane Tanner, 2009
Dr. Mina Baliamoune-Lutz, 2010 (Economics and Geography)
Dr. Barbara Kruger, 2010 (Nursing)
Dr. Debra L. Murphy, 2011 (Art and Design)
Dr. JoAnn M. Nolin, 2011 (Public Health)
Dr. Gordon F. Rakita, 2012 (Sociology and Anthropology)
Dr. Barbara J. Olinzock, 2012 (Nursing)
Dr. Scott H. Hochwald, 2013 (Mathematics and Statistics)
Dr. Katherine M. Robinson, 2013 (Nursing)

## Outstanding Faculty Community Engaged Scholarship Award

Dr. Barbara J. Kruger, 2013 (Nursing)

## Outstanding Undergraduate Advisor Award

Valerie Brooks-Clark, 1990
Paul N. Higbee, 1991
Donald K. Graham, 1991
Arva W. Leath-Sufi, 1992
Josephine Fraizer, 1993
Michele Clements, 1994
Norma R. Stice, 1995
Rachel Broderick, 1996
Michele Clements, 1997
Valerie Holsey-Esguerra, 1998
Kellie G. Woodle, 1999
Rachel Broderick, 2000
Katharine Brown, 2001
Lisa Jamba, 2002
Angela Garcia, 2003
Keith E. Martin, 2004
Sandie Loach, 2005
Michael Murillo, 2006
Bruce Turner, 2007
Morgan Barnett, 2008
Miwa Nguyen, 2009
Annette Robinette, 2010 (Academic Center for Excellence)
Paul Schreier, 2011
Terry DeRubeis, 2012 (Coggin College of Business)
Dr. Mei Zhao, 2011 (Public Health)
Erin K. Bennett, 2012 (Music)


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## Visit UNF

## An Invitation

The University of North Florida invites you to visit its campus. Student tour guides will share their first-hand knowledge and student experiences while you take in our natural campus setting including stops at residence halls, classrooms, athletic facilities, and the student union. Limited space is available on each campus tour, so we request that those planning to attend reserve a space in advance. Individuals who need an accommodation because of a disability may notify our Visitors Center at least 48 hours before their arrival for assistance. All inquiries can be directed to the Visitors Center at (904) 620-1183.

For more information, please check out the Visitor Center webpage.


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## UNF Academic Calendar

The UNF Academic Calendar provides pertinent information such as class start and end dates, registration periods, when grades will be posted, and commencement times and locations.

To view these dates, times, and more, the UNF Academic Calendar is the right place to go.


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## Academic Advising

## Mission

The mission of the University of North Florida Academic Advising Program is to assist prospective, current, and returning students with the development of academic, personal, and professional goals. The members of the program are committed to providing individualized services to a diverse student population. Working cooperatively with the UNF community, advisors offer tools and resources to empower students in becoming lifelong learners.

## Advising Philosophy

Advisors at UNF strive to guide students towards their academic goals by providing information, references, and advice; however, they will not make choices for the student. Advising is an engaging process between the advisor and the advisee where ultimately the student is in full control of his/her educational experience. Academic advisors are the resource to help students succeed.

## Objectives of Advising

As a result of advising, advisees should be able to:

- Understand and adhere to the University's academic policies, procedures and deadlines
- Navigate myWings and the UNF website
- Interpret their degree evaluation and My Osprey Map (Course Sequence Guide)
- Establish positive student-advisor relationships
- Acknowledge their own personal strengths and weaknesses
- Take responsibility for their actions and be engaged in their educational experience
- Be knowledgeable of their academic major requirements and career goals


## Advisor Responsibilities

To support the core values of the UNF advising program, advisors will

- Demonstrate professionalism and empathy towards their advisees
- Assist students in understanding
- Encourage individualistic goals and decision-making
- Be knowledgeable of policies, procedures, student services and reference information
- Recommend social and academic extra-curricular organizations in addition to applicable campus resources
- Maintain confidentiality and uphold FERPA Regulations


## Advisee Responsibilities

*Note: Students newly admitted to UNF or their academic college and major must meet with their academic advisor within the first semester

To achieve your ultimate academic goal, you will...

- Prepare to visit your advisor by scheduling appointments and/or coming to walk-in advising early in the semester
- Arrive early to your appointment and be prepared with all required materials
- Be knowledgeable of your academic progress and status including: grades, GPA, academic history, academic schedule and standing
- Clarify personal values and goals, and provide the advisor with accurate information regarding your interests and abilities
- Learn and comprehend campus policies, procedures, and requirements for graduation
- Check your University of North Florida e-mail daily and reply, respond or take action as required
- Conduct yourself in a manner that is professional and respectful to others
- Expect to be responsible for your own actions and decisions



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## Freshman and Sophomore Academic Advising

## Academic Center for Excellence

The Academic Center for Excellence (ACE) provides professional academic advising for all incoming students including transfer students who have less than 60 semester hours. ACE provides freshmen and sophomore students with specially trained academic advisors to assist students in identifying and working towards their academic goals. First-Time-In-College (FTIC) students are required to attend Freshman Orientation prior to enrolling in their first term at UNF. Special arrangements may be made for out-of-state or out-of-country students by contacting the Center at (904) 620-1012.

In addition to academic advising for freshmen and sophomore students, ACE offers a plethora of first year programs designed to ease students' transition from high school to college, provide fundamental academic skills as well as offering a variety of academic support services. The following ACE retention programs are FREE for UNF students and include:

- All freshmen will meet one on one throughout the year with their assigned academic advisor.
- Provide at risk students a year of targeted retention strategies including connections with Career Development, Study Skills, tutoring and additional resources as needed.
- Teach College Success Skills courses focusing on areas of student need which include Critical Thinking Skills, Essay Writing, Financial Responsibility, Memory Tips, Motivation, Note Taking Tips, Reading Strategies, Study Tips, Success Strategies, Test Anxiety, and Time Management. These workshops are geared towards developing positive learning habits, designing effective study techniques, exploring different learning strategies and reinforcing relevant knowledge.
- The Early Academic Progress Program (EAPP). Faculty refer underperforming students through an on line system to academic advisors in the Academic Center for Excellence (ACE). By alerting advising staff to students in academic distress early in the semester advisors are able to intervene with the student to determine areas of concern and provide appropriate assistance and/or connect students to additional support resources if necessary. Advisors provide feedback to faculty regarding each student referred.
- Mid-term grade reports for freshmen alert advising staff to students who are not earning at least a "C" grade in coursework. Advising staff intervenes with the student to determine why the student is not being successful and identifies alternatives, options and or behavior changes to increase the student's opportunity to be successful.
- Peer tutoring in a variety of disciplines with heavy emphasis on math, the natural sciences and writing.
- Workshops for undecided students in conjunction with the Career Services office.

Visit the ACE website for the latest information on Tutoring and College Success Skills workshop schedules. Meet the staff and stay informed on academic policies, updates and academic information in general.


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## J unior and Senior Academic Advising

After the completion of 60 semester hours, students are required to spend time with an academic advisor in the college of their chosen major. Each college provides specially trained academic advisors to assist upper level students in successfully developing and completing their academic goals. Additionally, they provide resources for success that can only be found in the academic advising office. College academic advising offices are located below.

- Brooks College of Health: (904) 620-2812
- Coggin College of Business: (904) 620-2575
- College of Arts \& Sciences: (904) 620-2797
- College of Computing, Engineering and Construction
- School of Computing: (904) 620-2985
- School of Engineering : (904) 620-2970
- Construction Management: (904) 620-2745
- College of Education and Human Services: (904) 620-2530



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## Honors Academic Advising

The Honors Program provides personalized academic advising for students enrolled in the UNF Honors Program. Students entering the program as a First Time in College Student (FTIC) or those students with less than 60 credit hours are assigned to the Honors Academic Advisor in the Honors Office. The Honors Academic Advising office provides a focused, one-on-one approach to advising including:

- Detailed information about specific Honors special topics courses
- One-on-one advising sessions throughout the semester
- Developmental advising for probation students, which includes strategies and individualized attention to get probation students back on track
- Group information sessions to provide skills and strategies to succeed at UNF and in the Honors Program

Advising for Honors students is located in the Honors Office, Building 1 Room 1600. You can reach an Honors Academic Advisor by calling the main Honors Office at (904) 620-2649 or by visiting the Honors website.


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## All Students

The University of North Florida has grown into a popular destination for many aspiring students, and for good reason. Built on a strong foundation of academic excellence, the University offers wonderful experiences for a diverse and talented student body.

The information and procedures described in this section of the catalog pertain to all applicants for admission, regardless of student type or level. Use the links to the left to learn more about the procedures and requirements for admission to the University of North Florida.


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## Criminal Offense Charges

The University reserves the right to review the case of any student who has been implicated in a criminal offense prior to admission to determine eligibility for admission and participation in extracurricular activities.

At the time of application, students must disclose the final disposition of any past or pending judicial proceedings and submit any pertinent documentation by the admissions deadline. Applications submitted without complete supporting information will not be processed and are subject to cancellation.


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## Equal Opportunity/ Equal Access/ Affirmative Action

The University of North Florida encourages applications from qualified persons and does not discriminate on the basis of race, color, religion, national origin, sexual orientation, veteran's status, disability, age, marital status, or gender. The president has delegated responsibility for the implementation of the University's equal opportunity and non-discrimination policies and affirmative action program to the director, Office of Equal Opportunity Programs (EOP). For more information, contact the Office of Equal Opportunity Programs.


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## International Student Requirements

In addition to meeting admission standards for their chosen program and major, international students seeking to study at the University of North Florida must satisfy the following requirements in order to be issued a Form I-20. Information related to the admission requirements for specific majors and programs may be found in the Undergraduate and Graduate areas of this catalog. For additional information, please contact the UNF International Center

## United States Immigration \& Financial Requirements

1. Certification of Finances: The Department of Homeland Security requires UNF to ensure that international students have sufficient financial resources before issuing a Certificate of Eligibility (Form I-20). All applicants must complete and submit an Affidavit of Financial Support and Bank Certification. The Affidavit is a document signed by the applicant's sponsor (the person who will be providing the funds) stating the amount of funds that she/he will provide for the educational expenses of the student applicant. A bank official then certifies that the sponsor does have that amount of funds in his/her account. This form represents an obligation on the part of the sponsor to provide the required amount of funds as indicated on the form. Please see "Estimated Costs of Attendance for International Students" to determine the amount of funds needed to be written on the Affidavit.
2. Transfer Students: All applicants intending to transfer from another U.S. university must notify their current school so that the Department of Homeland Security transfer requirements can be initiated. A new form I-20 from UNF cannot be issued until the current school "transfers out" the applicant to UNF in the SEVIS program.

## Health Requirements

Before enrolling in classes at UNF, all admitted students must supply the following health certifications. These certifications are not necessary in order to apply for admission to UNF; however, they are necessary in order for admitted students to register for classes. Please visit the Medical Compliance section of the catalog and the Medical Compliance website for additional information.

1. Certification of Health Insurance: All students in an immigration status of F1 or J1 must show proof of health insurance before registering for classes. Students with current insurance coverage may fill out the International Insurance Evaluation form available from the UNF Medical Compliance office. Students without insurance may purchase insurance through UNF Medical Compliance.
2. Certification of Immunization: All students born after 1956 must meet immunization requirements of two doses of Measles and one dose of Rubella. All new matriculating students must provide documentation of vaccination against Meningococcal Meningitis and Hepatitis B unless the student has signed a waiver declining each of these vaccinations and
acknowledging receipt and review of the University-provided information concerning
Meningitis and Hepatitis B. Please refer to the Medical Compliance Immunization Form.


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## Medical Compliance Requirements

## Immunization Policy

Pursuant to Florida Board of Governors Regulation 6.001(9), prior to registration, each student accepted for admission at The University of North Florida must submit a signed UNF Immunization Form. University of North Florida requires documented proof of immunizations to measles and rubella. In addition, pursuant to Florida Board of Governors Regulations 6.007, effective July 1, 2008, all new matriculating students must also provide documentation of vaccinations against meningococcal meningitis and hepatitis B or provide a signed waiver for each declined vaccination.

Acceptable documentation is as follows:

## Measles (Rubeola)

Students can be considered compliant for Measles only if they have documentation of one of the following:

1. Official documentation of immunization with TWO (2) doses of live Measles virus vaccine on or after the first birthday and at least 28 days apart. Persons vaccinated with killed or unknown vaccine prior to 1968 must be revaccinated.
2. Laboratory (serologic) evidence of Measles immunity titer.
3. A written, dated statement, signed by a physician on his/her stationery, that specifies the date seen, and stating that the person has had an illness characterized by a generalized rash lasting three (3) or more days, a fever of 101 degrees Fahrenheit or greater, a cough and conjunctivitis, and in the physician's opinion, is diagnosed to have the ten-day measles (Rubeola).

Measles is a highly contagious acute viral infection characterized by a rash, cough, runny nose, eye irritation, and fever. It is extremely communicable and is spread by droplets from the nose and mouth of an infected person to susceptible individuals. Measles can lead to ear infection, pneumonia, seizures, brain damage, or even death. In recent years in the U.S., outbreaks have occurred most commonly in adolescents and young adults, including college students. Receiving two doses of the live measles vaccine can provide long-lasting immunity.

## Rubella (German Measles)

Students can be considered compliant for Rubella only if they have documentation of at least one of the following:

1. Documentation of immunization with live Rubella virus vaccine on or after the first birthday.
2. Laboratory (serologic) evidence of Rubella immunity titer.

Rubella is a contagious viral infection that causes a rash, mild fever, and stiff joints in adults. A woman who gets rubella while pregnant could have a miscarriage or her baby could be born with serious birth defects. Its incidence is low in the U.S. due to the increased number of childhood vaccinations against the disease; however, outbreaks continue to occur in susceptible populations, including college students. The vaccination for rubella produces antibodies in over 95\% of recipients.

Mumps is an acute viral infection characterized by muscle ache, tiredness, loss of appetite, headache, and fever, followed by swelling of salivary glands. The parotid salivary glands (which are located within your cheek, near your jaw line, below your ears) are most frequently affected. Transmission of mumps virus occurs by direct contact with respiratory droplets, saliva, or contact with contaminated fomites. Complications of mumps infection can include deafness, inflammation of the testicles, ovaries, or breasts, and spontaneous abortion. In recent years in the U.S., the majority of cases reported occurred among adolescents and young adults, including college students.

## Exemptions

1. Students seeking an exemption due to medical conditions must submit documentation from the attending physician.
2. Students seeking an exemption for religious reasons must submit a letter explaining the circumstances.
3. In the event of a Measles/Rubella emergency, exempted students will be excluded from all campus activities until such time as is specified by the County Health Unit.

Please contact the UNF Office of Medical Compliance for additional information.
Meningococcal Meningitis is an infection of the fluid of the spinal cord and brain, caused by bacteria and usually spread through exchange of respiratory and throat secretions (i.e. coughing, kissing). Bacterial meningitis can be quite severe and may result in brain damage, hearing loss, learning disability, or even death. A vaccine is currently available for one of the most severe forms of bacterial meningitis, meningococcus. This vaccine effectively provides immunity for most forms of meningococcus; there is no vaccine for the less severe viral type of meningitis.

Hepatitis B is a viral infection of the liver caused primarily by contact with blood and other body fluids from infected persons. Hepatitis B vaccine can provide immunity against Hepatitis B infection for persons at significant risk, including people who have received blood products containing the virus through transfusions, drug use, tattoos, or body piercing; people who have sex with multiple partners or with someone who is infected with the virus; and health care workers and people exposed to biomedical waste.

## Certification of Health Insurance

To comply with the Florida State Board of Governors Regulation BOG 6.009, F-1, F-2, J-1, J-2 visa status students must have a health insurance policy that meets certain criteria. The University of North Florida (UNF) has a policy available that includes benefits that meet the Florida State Board of Governors Regulation. International students also have the option to purchase an alternate policy, as long as the policy meets the Florida State Board of Governors Regulation BOG 6.009 guidelines.

## UNF Health Insurance Plan

Information on this plan can be found on the Medical Compliance Website
http://www.unf.edu/shs/Immunization.aspx.
The fee for this plan is automatically assessed on every F/J visa status student's account when tuition fees are assessed (Unless a waiver for alternate insurance has been submitted and approved) and has the same payment deadline.

## Alternate Insurance Waiver Plan

In order to apply for alternate insurance, students must submit an International Student Health Insurance Compliance Form. This form can be obtained online at
http://www.unf.edu/shs/Immunization.aspx.
This form may be submitted as early as you wish. The best way to avoid the UNF insurance fee from being assessed to your account is to submit these forms before tuition fees are assessed to your account (approximately three weeks before the first day of each semester.)

All alternate insurance waiver forms must be received by the last day of add/drop to be considered for approval. Once approved, the fee for insurance will be removed from the student's account. **Please note that this may take up to a week to update in the system. Credits from the Cashier's Office could take up to an additional week to post. This is why we encourage students to get their waivers in early**

Medical Compliance will not accept alternate insurance waiver forms after the add/drop cut-off date.


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## Residency

Tuition and fees are assessed on the basis of residency. Enrolling students are classified either as "Florida" or "Non-Florida" students.

The University of North Florida follows laws of the State of Florida, as well as regulations and policy guidelines established by the Florida Board of Governors, in determining residency for tuition purposes. The law allows U.S. citizens and lawful permanent residents to be classified as Florida residents for tuition purposes if the applicant or the dependent applicant's parent/legal guardian has been a legal resident of the state for at least 12 months preceding the first day of classes of the term for which Florida residency is sought.

Proper documentation is required before students are classified as Florida residents for tuition purposes.

For more information on residency requirements, visit One Stop Student Service at UNF.


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## Special Admission Consideration based on a Disability

The University does not discriminate on the basis of disability in admission or access to its programs or activities. Students who do not meet general admission requirements and have documented proof of a disability (for example: blind or low vision, deaf or hard of hearing, motor or physical disabilities, psychological or emotional disorders, specific learning disabilities, ADHD/ADD, or other disabilities) may request consideration of the disability in the admission process. Students may voluntarily check the appropriate box about disability on the application and contact the Disability Resource Center (DRC) to discuss disability documentation requirements.

The University advises students with disabilities to register with the DRC immediately upon admission to UNF. In order to provide accommodations, a student must be registered with the Disability Resource Center (DRC).

To register with the DRC, the student must supply the DRC office with written documentation of his/her disability (see How to Register with the DRC).

Prior UNF students returning for course work after an absence of three consecutive semesters must follow current DRC documentation requirements and policies.

To view the University's official regulation, click here.


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## Students Seeking Re-Admission

Any student who has not enrolled at the University in any of the last three consecutive terms and who wishes to re-enroll in the University must apply for re-admission.

In order to be considered for re-admission, a former student must file a new application for admission and pay the $\$ 30$ application fee by the appropriate deadline for the desired semester. Students are also advised to contact the One Stop Student Services to confirm whether the appropriate documents (transcripts and test scores) are still on file and whether additional items are needed. Students who re-apply are subject to any new admissions requirements and to the program requirements published in the catalog for the academic year in which they re-initiate enrollment at UNF.

Admissions offers are made for the term requested by the applicant. If the applicant does not matriculate, he or she may re-apply for a future semester. Supplemental documentation for nonmatriculated applicants is kept for up to one year, but applications are term-specific and must be updated for admissions consideration.

To view the University's official policy, click here.


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## Undergraduate and Post-baccalaureate Students

The University of North Florida has grown into a popular destination for many aspiring students, and for good reason. Built on a strong foundation of academic excellence, the University offers wonderful experiences for a diverse and talented student body.

The information and procedures described in this section of the catalog pertain to Undergraduate Students, including the following student types:

- First Time in College - Regular freshman admission
- Transfer - Including Lower- and Upper-Level students
- Non-Degree Seeking - Including Transient Students
- Post-baccalaureate - Including Second Bachelor's Degree, Certificate Programs, and Graduate Pre-Requisites

Please view the links to the left for more detailed information.


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## Dual Enrollment and Early Admission

Talented students in high school may accumulate college credits through two special, non-traditional programs: dual enrollment and early admission. Students who wish to apply to either of these programs must be recommended by appropriate high school officials. Eligibility for participation is set by written agreement between the school district and UNF.

Neither early admission nor dual enrollment students are eligible for UNF Admissions scholarships or financial aid.

Dual enrollment is a program in which an academically talented student receives permission from the high school to take one or more college courses on the UNF campus while currently enrolled in high school. Dual enrollment students are limited to taking courses required for their high school graduation. All UNF courses to be taken by the student must be approved by the appropriate high school officials.

UNF offers a limited number of dual enrollment courses. Home, public or private school students who plan to participate in dual enrollment should do so in close consultation with their high school guidance counselor to ensure the courses meet one of the following criteria:

1. Meet UNF general education requirements
2. Meet prerequisite or lower division requirements for the student's intended major
3. Substitute for elective hours in the student's intended major.

In addition, comparable high school courses should be unavailable at the applicant's secondary institution and the university must have space available in the requested class.

## Eligibility

Eligibility for participation in the Dual Enrollment program is set by written agreement between the school district and UNF. All applications must be received before the posted general admissions deadline.

## To qualify for dual enrollment, a student must:

- Submit a UNF Dual Enrollment application. (Note: Application is valid for one semester only. A new application must be submitted by the deadline every semester the student wishes to participate in Dual Enrollment.)
- Submit official and current high school transcripts reflecting a 3.0 unweighted high school GPA or higher and at least 18 high school credits.
- Submit official ACT or SAT scores taken within the last two years (minimum 24 ACT or 1100 SAT).
- Submit passing scores for the appropriate subsections of the Florida College Entry Level Placement Test, if the student is requesting an English or mathematics course
- Satisfy any course prerequisites
- Submit a Dual Enrollment Term of Agreement with signatures from high school principal, counselor, and parent, available through the high school guidance counselor or UNF's Admissions Office. (Note: Term of Agreement is valid for one semester only. A new agreement must be submitted by the deadline every semester the student wishes to participate in Dual Enrollment.)


## Registration

Dual enrollment students register for classes each semester during open registration. Before registering each term, an application, updated high school transcripts, and a signed terms of agreement form must be submitted. All course prerequisites must be satisfied before registering.

Students admitted for Dual Enrollment will receive a waiver of tuition fees for any course taken at UNF that can also be used for high school graduation.

## Home School Students

The Dual Enrollment Program at UNF is available to high school students enrolled in a home education program. The Dual Enrollment Program is in compliance with Florida Statute 232.02, which regulates home education programs. Home school students must meet the admission criteria outlined above in order to participate in dual enrollment at UNF, including the submission of official transcripts.

## Early Admission

The Early Admission Program provides opportunities for talented students to be admitted as a degree seeking college freshman prior to high school graduation. Students who wish to apply for early admission at UNF must be recommended by the appropriate high school officials. The student who is accepted for the Early Admission Program completes the first year in college and the senior year of high school simultaneously. Credit earned through this program with grades of "C" or higher may be used in degree programs at UNF. The University waives the cost of tuition and fees (excluding textbooks) for in-state residents for each course that the high school will accept for graduation.

## Eligibility

To qualify for early admission, a student must submit the following by the posted general admission deadline:

- Admissions Application
- \$30 Application fee
- Early Admission Terms of Agreement with signatures from high school principal, counselor, and parent (available through the UNF Admissions Office)
- Official high school transcripts reflecting a 3.5 weighted high school GPA or higher based on academic units
- Official ACT or SAT scores taken within the last two years (minimum 28 ACT or 1200 SAT)
- Immunization Form


## Registration

Early admission students may register for classes ONLY after participating in freshman academic advising.

## Continuation at UNF

Early admission students will not be permitted to register for the fall term following their anticipated high school graduation date unless they have submitted an official, final high school transcript to the Office of Admissions.

For additional information about Dual Enrollment and Early Admission programs, please contact your high school guidance counselor or the UNF Office of Admissions.


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## First-Time-in-College Admission Requirements

## Beginning Freshman

The University is interested in applicants who have demonstrated strong academic ability and who will bring diverse interests and talents to the campus. All prospective freshmen are required to submit an official copy of their high school transcript and official SAT/ACT score reports. Scholastic Assessment Test (SAT) and American College Test (ACT) scores reflected on the high school record are considered official. Because UNF's freshman class is limited in size, admission is selective.

## Application Requirements

The following materials must be submitted to the Office of Admissions by the deadline in order to be considered for admission to UNF.

- Admission application
- \$30 Application fee
- High school transcripts
- Transcripts from any credit-earning mechanism
- SAT and/or ACT score reports

All transcripts, test scores and documentation of credit-earning mechanisms must be official, arriving to the Office of Admissions directly from the originating school or testing agency. Official documents are those received directly from the awarding institution or delivered in their original, sealed envelope.

## Admission application

Incoming freshmen may apply for entrance into the spring (January), summer (June), or fall (August) semesters. Students may apply for admission up to one year in advance of their intended enrollment term. Students are encouraged to submit an online application; however the paper version may be printed and submitted via mail or in person. Incomplete or illegible applications will not be processed. Applicants are directly responsible for providing accurate contact information.

## Application fee

A $\$ 30$ non-refundable application fee is required for any application for admission. Acceptable payment methods include MasterCard, Discover, Visa or American Express online; or personal check/money order made payable to UNF. Students should inquire with their high school guidance office to see if they are eligible for a college application fee waiver.

## High school transcripts

It is the student's responsibility to ensure that official high school transcripts have been received by the Office of Admissions by the deadline. Florida public schools should send transcripts electronically, while private and non-Florida schools may mail transcripts to the Office of Admissions.

The Office of Admissions will recalculate a grade point average (GPA) based on the following eighteen academic units in college preparatory courses, giving extra weight to grades of " C " or higher earned in honors, Dual Enrollment, Advanced Placement, IB, or AICE courses. While students may not have completed all the required courses at the time an application is submitted, they are required to complete them prior to high school graduation and entrance into UNF.

- Four units of English
- Four units of math (Algebra 1 or higher)
- Three units of natural science
- Three units of social science
- Two successive units of (the same) foreign language
- Two units of academic electives

Students are required to submit final, official transcripts reflecting graduation from high school no later than 30 days after the start of the term to which they have been admitted.

## Transcripts from credit-earning mechanisms

If coursework has been completed through any credit-earning mechanism at the time of application then students are required to submit official transcripts/score reports to complete their applications before the appropriate deadline date. Incomplete applications will not be processed. Credit-earning mechanisms include, but are not limited to IB, AP, AICE, Dual Enrollment, CLEP, DANTES, or military SMART/AARTS transcripts.

## SAT and/or ACT score reports

It is the student's responsibility to ensure that official SAT and/or ACT scores have been received by the Office of Admissions by the deadline. Multiple scores are accepted and the best subsection scores will be considered. Writing portions of both tests are required. UNF's SAT code is 5490 and ACT code is 0711.

## Home School and G.E.D. Students

Home school students must submit transcripts indicating course title, semester, grade, and awarded credit for all academic courses. Official SAT/ACT scores and official transcripts from accelerated mechanisms are also required.

Students who received a G.E.D. must submit evidence of passing scores on the subtests of the G.E.D. exams and a G.E.D. diploma, in addition to official SAT or ACT score reports.

## State Academic Standards

The State of Florida has implemented new minimum admission standards for freshman applicants to all Florida public state universities. In order to be considered, students must have a minimum 2.5 recalculated GPA on a 4.0 scale and meet minimum test score requirements (460 SAT Critical Reading, 460 SAT Math, 440 SAT Writing; or 19 ACT Reading, 19 ACT Math, 18 ACT English/Writing). Please keep in mind that these standards only outline potential eligibility for admission to a state university. UNF's admission criteria depends on the size and competitiveness of the applicant pool and will be higher than these minimums.

An overall recalculated grade point average in academic course work as computed by UNF (additional points are assigned to honors, dual enrollment, Advanced Placement, International Baccalaureate, and Cambridge AICE courses) and scores on the SAT or the ACT program are combined to meet the minimum established by the Florida Board of Governors and the University. Some applicants who do not meet these established academic criteria, but who bring to the University other important attributes, may be considered for admission. The summer Academic Potential Program (APP) is designed to provide an opportunity for a limited number of applicants who do not meet the established criteria but who bring other important attributes or special talents.


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## Foreign Language Requirement

By action of the Florida Legislature, undergraduate students who enter a state university in Florida are subject to a foreign language admission requirement. To satisfy the requirement, a student must present evidence of:

- The successful completion of two years of sequential foreign language (sequential levels of the same foreign language) or two years of American Sign Language study in high school, or
- The successful completion of 8-10 semester hours of sequential foreign language (sequential levels of the same foreign language) or American Sign Language at the postsecondary level, or
- Proficiency through a satisfactory score on the College Entry-Level Assessment (CELA), formerly (MAPS) test, for Latin or the College-Level Examination Program (CLEP) foreign language examination.



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## Freshman Housing Requirement

The University of North Florida is committed to ensuring the academic and personal success of its students. In working to fulfill this commitment, over the past several years we have learned that living in on-campus housing can make a world of difference in what our students take away from their college experience and in their success rates. The benefits of living on campus are especially significant for students who have just graduated from high school and are attending their first year of college. Research tells us that those students who live on campus during their first year

- Have higher grade point averages,
- make a smoother transition from high school to college,
- have higher retention and graduation rates,
- report greater satisfaction with their college experience, and
- make better use of the educational and support services provided by their universities than do commuter students.

Consistent with this perspective and to ensure the quality of the first year experience, as of summer 2012, the University of North Florida will require all first-year students to live in on-campus housing. UNF students who begin in the summer term are required to live in campus housing in the summer, fall and spring terms. Students who begin the fall term will need to live in on-campus housing during the fall and spring terms. Students enrolling in the spring term will need to live on campus during that first spring term and during the next term the student is enrolled (summer or fall).

When living in campus housing during the first year, students must also purchase an on-campus meal plan. There are several different meal plans to choose from depending on the student's individual needs. The minimal plan provides for 10 meals per week.

Details about fulfillment of this requirement including our exemption policy are available on website.


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## International Students Admission

## Application Requirements

Undergraduate students are accepted each semester, except for limited access and selective access programs. Deadlines for applications and supporting documents may be found online. In order to be considered for admission, applicants must submit all required documents by the posted deadline.

Getting credentials and transcripts evaluated takes a considerable amount of time. In addition, sending or receiving official application materials can often take a very long time. Therefore, applicants should complete their applications as far ahead of the deadline as possible.

1. Application Forms: International students must complete and submit an application for admission. UNF's application is available on the website.
2. Application Fee: The application fee is $\$ 30$. The application fee must be in U.S. currency only (check or money order) drawn from a U.S. bank.
3. Academic Records and Credentials Evaluation: Applicants must submit official academic credentials in the form of original documents bearing the seal of the institution and the signature of their institution's Registrar, or exact copies that have been legally certified. The UNF International Center may provide the applicant with the following academic records and credentials evaluations services only if the original documents have literal and complete translations in English:

- Document-by-document evaluation (degree, diploma, GPA); and
- College level course-by-course evaluations (with GPA and credits).

Please note that due to the complexity of certain foreign credentials evaluation requests, the UNF International Center reserves the right to ask applicants to contact an external evaluation agency directly and provide UNF with an original evaluation of all academic credentials. Transcripts or credentials not in English or records for which U.S. course equivalencies are not readily available must undergo a course-by-course evaluation by a reputable foreign transcript and credentials evaluator. A list of acceptable credentials evaluators can be found at the Web pages of NACES (National Association of Credential Evaluation Service).
4. SAT and ACT Test Scores: All lower-level applicants must submit official test scores from the SAT Reasoning Test or the ACT (American College Test).
5. English Proficiency: All applicants, except those from countries where English is the only official language, are required to furnish satisfactory evidence of English competency. Most applicants to the University take the Test of English as a Foreign Language (TOEFL); for those applicants, a minimum score of 500 for paper-based, 173 for computer-based, and 61 for Internet-based is required for admissions consideration. However, there are other proofs of English competency that may be used. For a listing of different methods to meet the

English Proficiency requirements, please see Indicators of Required English Language Proficiency for Foreign Applicants.

In addition to meeting the academic requirements for admission, students planning to attend UNF on an international student visa (F-1) or an exchange student visa (J-1) must also
satisfy immigration, health, and financial requirements as described in the All Students section of this catalog.

To view the University's official regulation, click here.


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## Limited Access \& Selective Admission Programs

A number of UNF academic programs are limited access or have selective admission requirements. Admission to these programs is selective or competitive. Applicants to these programs must meet or exceed the admissions requirements as established by the individual programs. The following programs are limited access or require selective admissions procedures. Contact the specific departments listed for additional information.

## Brooks College of Health

- Athletic Training

Additional information is available from the Brooks College of Health.

- Exercise Science

Additional information is available from the Brooks College of Health.

- Nursing

Additional information is available from the School of Nursing, Brooks College of Health.

## College of Arts \& Sciences

- Biology

Additional information is available from the Department of Biology, College of Arts \& Sciences.

- Graphic Design and Digital Media (BFA)

Additional information is available from the Department of Art \& Design, College of Arts \& Sciences.

- Multi-Interdisciplinary Studies

Additional information is available from the Office of Academic Advising, College of Arts \& Sciences.

- Music

Jazz Studies, Music Education, and Music Performance: Additional information is available from the Department of Music, College of Arts \& Sciences.

- Social Work

Additional information is available from the Department of Sociology \& Anthropology, College of Arts \& Sciences.

## College of Computing, Engineering \& Construction

- Civil Engineering

Additional information is available from the School of Engineering, College of Computing, Engineering \& Construction.

- Electrical Engineering

Additional information is available from the School of Engineering, College of Computing, Engineering \& Construction.

- Mechanical Engineering

Additional information is available from the School of Engineering, College of Computing, Engineering \& Construction.

## College of Education \& Human Services

- Education

Additional information is available from the Office of Academic Advising, College of Education \& Human Services.


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## Non-Degree Seeking and Special Status Students

Individuals may seek admission to UNF in a non-degree seeking or special status for one semester by submitting an application for admission and a $\$ 30$ application fee to One Stop Student Services by the appropriate deadline for the desired semester. Upon admission, the student may register for one term in a non-degree seeking / special student category. Non-degree / special students wishing to continue at UNF beyond one term must consult One Stop Student Services regarding formal admission procedures and policies. Successful completion of coursework in this status does not guarantee admission to the University.

No more than 12 undergraduate semester hours earned as a non-degree / special student may be transferred to a UNF undergraduate degree program. The transfer of any course(s) to a degree program earned while in a non-degree seeking / special status must be recommended by the dean or designee of the college which administers the program.

First-time-in-college freshmen are prohibited from enrolling as non-degree seeking / special students. Students enrolled in a non-degree / special status will register for classes on a space-available basis and are not eligible for financial aid at UNF.

To view information on transient enrollment, click here.


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## Post-Baccalaureate Students

A post-baccalaureate student is someone who has earned a bachelor's degree at a regionallyaccredited institution of higher education and desires to complete additional college course work. While graduate students meet the conditions of this definition, UNF refers to post-baccalaureate students as those students not admitted to a graduate program. Specific information regarding graduate students and graduate programs may be found on The Graduate School website.

Listed below are the minimum required materials for post-baccalaureate students to submit in order to be evaluated for a decision. Additional documentations may be requested, and additional requirements may exist for students applying as degree-seeking to a limited access/selective admissions programs.

- Admission application (see details below for which application to submit)
- \$30 application fee
- Official transcripts from each post-secondary institution attended, including military and dual enrollment transcripts
- Official transcripts from any credit-earning mechanism (Credit-earning mechanisms include, but are not limited to IB, AP, AICE, CLEP, or DANTES.)
- Meet a minimum cumulative college GPA of 2.0 ("C") or higher.

Within curriculum, space, and fiscal limitations, the University of North Florida will accept applications for students pursuing post-baccalaureate admissions. In this capacity, postbaccalaureate students generally enroll in one of the following categories.

1. Post-baccalaureate non-degree seeking: In this status, post-baccalaureate students may register for undergraduate courses and select graduate courses with permission from the department offering the courses. These courses are generally intended for personal interest and not taken in the pursuit of formalized educational goal. Students in this status are not eligible for financial aid.
2. Post-baccalaureate degree-seeking: In this status, post-baccalaureate students may register for courses leading to another bachelor's degree. Students in this status may apply for financial aid.
3. Post-baccalaureate certificate-only: In this status, post-baccalaureate students may register for classes leading to a specific certificate or other non-degree credential. Students in this status are not eligible for financial aid, except for those students pursuing their initial professional teacher certification in Florida.
4. Post-baccalaureate for graduate prerequisites: This status is reserved for students working on undergraduate prerequisites necessary for admission into a graduate program. Students in this status are not eligible for financial aid. Additional information is available from The Graduate School.

Students interested in attending in a post-baccalaureate status may consult One Stop Student Services for additional information. Generally speaking and at the discretion of the graduate program, a maximum of ten graduate semester credit hours earned in a post-baccalaureate status may transfer into a graduate degree program. Additional information may be obtained from The Graduate School.


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## Transfer Student Admission Requirements

## Transferring as a Freshman or Sophomore (Lower-Level Transfer)

Students who apply with fewer than 60 transferable semester hours ( 90 transferable quarter hours) of college course work will be considered for admission to the freshman or sophomore class. Admission requirements will vary by major, term, and space-availability. In order to be considered, the following criteria must be met:

- Satisfy the same admissions requirements as incoming freshmen applicants, including meeting the State University System sliding scale with high school GPA and SAT/ACT scores.
- Display evidence of a competitive profile and demonstrated academic success in collegelevel course work.
- Meet or exceed a minimum cumulative college GPA of 2.0 (" $C$ ") or higher, including a " $C$ " or higher average and "good standing" status (eligible to return) at the most recent college attended.

Meeting the above-referenced state minimum GPA requirement does not guarantee admission to the University. Applicants who exceed the minimum are most competitive for admission as a transfer student if space is available. In determining an applicant's admissibility, the University may consider personal qualities and talents in addition to academic accomplishments.

Listed below are the minimum required materials for lower-level students to submit in order to be evaluated for an admission decision. Additional documentation may be requested.

- Admission application
- \$30 application fee
- Official high school transcripts
- Official SAT/ACT test scores
- Official transcripts from all post-secondary institutions attended, including dual enrollment credits from high school
- Official transcripts from any other credit-earning mechanisms, including AP, AICE, CLEP, DANTES, IB, and any military SMART/AARTS/JST transcripts

All transcripts and test scores must be official, arriving to One Stop Student Services directly from the awarding institution or in the original, sealed envelope. Unofficial documents and those received after the posted deadline will not be accepted.

## Additional

Resources
Transfer Student Bill of Rights

Foreign Language
Requirement

## Transferring as a Junior or Senior (Upper-Level Transfer)

Students who have completed an Associate in Arts (A.A.) degree at a Florida public post-secondary institution (university, community, state, or junior college); students who fall under the provisions of specific articulated programs; or students who have completed a minimum of 60 transferable semester hours ( 90 transferable quarter hours) of college credit may be considered for admission as a junior or senior. Admission requirements will vary by major, term, and spaceavailability.

In order to be considered, applicants must meet or exceed a cumulative college GPA of 2.0 or higher, including a " C " or higher average and "good standing" status at the most recent college attended. Meeting the minimum GPA requirement does not guarantee admission to the University. Applicants who exceed the minimum are most competitive for admission as a transfer student if space is available. In determining an applicant's admissibility, the University may consider personal qualities and talents in addition to academic accomplishments.

Listed below are the minimum required materials for upper-level students to submit in order to be evaluated for a decision. Additional documentation may be requested, and additional requirements may exist for students applying to limited access/selective admissions programs or international students.

- Admission application
- \$30 application fee
- Official transcripts from all post-secondary institutions attended, including dual enrollment credits from high school
- Official transcripts from any other credit-earning mechanisms, including AP, AICE, CLEP, DANTES, IB, and any military SMART/AARTS/JST transcripts.

All transcripts and test scores must be official, arriving to One Stop Student Services directly from the awarding institution or in the original, sealed envelope. Unofficial documents and those received after posted deadlines will not be accepted.

Applicants transferring directly after earning an A.A. degree from a Florida public institution and applicants transferring under the provisions of an existing articulation agreement will receive priority consideration for admission.

Applicants transferring to the University without earning an A.A. degree from a Florida public institution must display evidence of a competitive profile and demonstrated academic success in college-level coursework. In order to be considered, applicants must meet or exceed a minimum cumulative college GPA of 2.0 ("C") or higher, including a "C" or higher average and "good standing" status (eligible to return) at the most recent college attended.

Meeting the minimum GPA requirement does not guarantee admission to the University. Applicants who exceed the minimum are most competitive for admission as a transfer student if space is available. In determining an applicant's admissibility, the University may consider personal qualities and talents in addition to academic accomplishments.

Additional restrictions apply for students applying to Limited Access and Selective Admission programs.


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## Graduate Students

The Graduate School at the University of North Florida offers excellence through graduate education relevant to students who wish to continue learning beyond their baccalaureate degrees and pertinent to the communities in which they serve. With small class sizes and engaged
 professorship, the Graduate School provides professionals and academics the unique learning opportunities which have come to distinguish UNF from other state universities.

Inquiries are welcomed by phone at (904) 620-1360 or by e-mail at graduateschool@unf.edu. Or visit us on campus within J J. Daniel Hall, Building 1, Suite 2000.


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## Admissions Procedures

Len Roberson, Dean, The Graduate School
Charles Learch, Director, The Graduate School (904) 620-1360

## Getting Admitted into UNF

The Application Procedure We strongly encourage you to contact the graduate advisor of the degree program in which you are interested.

1. All graduate applicants must complete and submit an online application at www.unf.edu/graduateschool/. Applicants in need of the application in an alternate format can contact the Graduate School for assistance at (904) 620-1360.
2. Complete the online application and the non-refundable application fee of $\$ 30$ by the deadline posted for the semester you would like to begin your graduate studies.
3. Arrange to have an official transcript sent to the Graduate School from each and every college or university you have attended, including community colleges and professional schools. The Graduate School will only accept hard copy transcripts. Transcripts should be sent to the following address:

## The Graduate School

University of North Florida
1 UNF Drive
Jacksonville, FL 32224
4. In accordance with the requirements of the specific graduate program to which you are applying, take the Graduate Record Exam (GRE), the Graduate Management Admissions Test (GMAT), or the Millers Analogy Test (MAT) and arrange to have your official score report sent to The Graduate School at UNF. Please visit www.ets.org for more information regarding the GRE. Students may visit www.mba.com for additional information regarding the GMAT. UNF's institutional code is 5490 for the GRE and MAT. UNF's institutional code is CF3QB-51 for the GMAT.
5. Send all supporting documents to The Graduate School. Supporting documents include recommendation letters, personal statements, resumes, writing samples, English proficiency tests, etc.
6. Students at Florida public universities are required to provide proof of immunization against rubeola (measles) and rubella (German measles) prior to the initial registration. This policy
applies to students who attend classes taught at the main campus. Questions concerning this policy should be directed to the Student Health Services Office in the Student Life Center, Building 39A/Room 2100, (904) 620-2175.
7. The University reserves the right to review the case of any student who has been implicated in a criminal offense prior to admission to determine eligibility for admission and participation in extracurricular activities. At the time of application, students must disclose the final disposition of any past or pending judicial proceedings and submit any pertinent documentation.

Once the Graduate School has received your transcripts and test scores, your application will then be referred to the graduate director of the program to which you are applying. The department will then review your application, make an admission decision, and notify us. You will then receive a letter informing you of the decision.


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## Standard Admission Requirements

There are two sets of requirements: University admission requirements and the specific requirements of each UNF graduate program.

## University Admission Requirements

1. A baccalaureate degree from a regionally accredited U.S. college or university or its equivalent from a foreign institution with a grade point average of 3.0 (B) or higher in all work attempted as an upper-division student, typically the last 60 credit hours OR an earned graduate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution.

## UNF Program Specific Admission Requirements

Students may also be required to meet specific or more stringent requirements of the program to which they are seeking admission. Such requirements may include, but are not limited to:

- Standardized test scores
- Supplemental documents (i.e. letters of recommendation, resume, personal statement)
- Licensing

Please visit the The Graduate School website for a list of offered programs and their specific requirements. Students should be aware that admission into any graduate program is granted on a competitive basis. Students meeting minimum requirements may be denied admission based on such factors as program capacity or academic discretion. Likewise, students may be considered for admission as an exception if stated admissions criteria are not met.


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## International Graduate Student Admission

The University of North Florida, the Graduate School, and the International Center are pleased to welcome you. We recognize that you and your fellow international students, representing over 100 different countries, bring with you perspectives that enrich our campus. We are committed to offering you educational programs and experiences that will enhance your professional development.

We are very aware of the challenges before you and hope to be able to provide you the best possible support as you pursue your graduate studies at UNF. This support includes our Student Orientation, which is offered at the beginning of every semester. Required of all new students, this program reviews your rights and responsibilities and also provides an opportunity for you to meet with your fellow international students.

The Graduate School and the International Center will be happy to help you with the admissions process.

## Admission Requirements

- Application Forms International students must complete an online application. Further information is available at www.unf.edu/graduateschool/.
- Application Deadlines Applicants should submit their completed application forms and all other required material well in advance of the date they wish to begin at UNF. Some programs have alternative deadlines for the submission of the application materials by international students, and these deadlines may be found at www.unf.edu/graduateschool/.

The general deadline for international students are as follows:

- Fall - May 1
- Spring - October 1
- Summer - February

Applicants should understand that getting credentials and transcripts evaluated can take a considerable amount of time. In addition, sending or receiving official application material can often take a very long time. Therefore, applicants should complete their applications as far ahead of the deadline as possible.

- Application Fee The application fee is $\$ 30.00$. The application fee must be in U.S. currency only (check or money order) drawn from a U.S. bank.
- Academic Records and Credentials Evaluation Applicants must submit official academic credentials in the form of original documents bearing the seal of the institution and
the signature of their institution's Registrar, or exact copies that have been legally certified. The UNF International Center may provide the applicant with the following academic records and credential evaluations services only if the original documents have literal and complete translations in English:
- Document-by-document evaluation (degree, diploma, GPA)
- College level course-by-course evaluations (with GPA, course levels, and credits)

Please note that due to the complexity of certain foreign credential evaluation requests, the UNF International Center reserves the right to ask applicants to contact an external evaluation agency directly and provide UNF with an original evaluation of all academic credentials. Transcripts or credentials not in English or records for which U.S. course equivalency is not readily available must undergo a course-by-course evaluation by a reputable foreign transcript and credentials evaluator. A list of acceptable credentials evaluators can be found at the web pages of NACES (National Association of Credential Evaluation Service) at www.naces.org/members.htm.

- GRE and GMAT Test Scores Applicants must take the required graduate tests - the GRE or the GMAT as required by their intended program - and arrange for the Educational Testing Service to forward the scores to the Graduate School at UNF. UNF's institutional code is 5490 for the GRE and CF3QB-51 for the GMAT.
- English Proficiency Applicants from countries where the official language is other than English must demonstrate proficiency in English. One such method is to take the Test of English as a Foreign Language (TOEFL), receive a score of 500 or higher ( 550 or higher for graduate business and engineering programs) for paper-based, 173 for computer-based, and 61 for Internet-based, and submit their score with their application. The TOEFL is offered by the Educational Testing Service, Princeton, N.J. 08541, U.S.A. UNF's institutional code is 5490 . Alternative methods of proving English proficiency may be found at www.unf.edu/graduateschool/.


## Immigration Requirements

- Certification of Finances The U.S. Department of Homeland Security requires UNF to insure that international students have sufficient financial resources before issuing a Certificate of Eligibility (Form I-20). All applicants must complete and submit an Affidavit of Financial Support and Bank Certification. The Affidavit is a document signed by the applicant's sponsor (the person who will be providing the funds) stating the amount of funds that she/he will provide for the educational expenses of the student applicant. A bank official then certifies that the sponsor does have that amount of funds in his/her account. This form represents an obligation on the part of the sponsor to provide the required amount of funds as indicated on the form. Please see Estimated Costs of Attendance for International Students on the UNF website to determine the amount of funds needed to be written on the Affidavit.
- Transfer Students All applicants intending to transfer from another U.S. university must notify their current school so that the U.S. Department of Homeland Security transfer requirements can be initiated. A new form I-20 from UNF cannot be issued until the current school "transfers out" the applicant to UNF in the SEVIS program.


## Health Requirements

Before you can enroll in classes at UNF, you must supply the following health certifications. These certifications are not necessary for you to apply for admission to UNF. However, once you have been admitted, they are necessary for you to be able to register for classes.

- Statement of Good Health This form can be found on the Immunization Form (Student Health Services). See Certification of Immunization listed below.
- Certification of Health Insurance If you have an immigration status of F1 or J1, before you may register for classes you must show proof that you have health insurance. If you currently have insurance coverage, please have your insurance company fill out the "International Student Health Insurance Evaluation" form available from the UNF Office of

Student Health Services at (904) 620-2175 or from their web page. If you do not have such insurance, you can purchase insurance through the UNF Office of Student Health Services. Beginning with the fall term of 2008: Insurance coverage must include the full year, including annual breaks, regardless of the student's terms of enrollment. The policy must provide continuous coverage for the entire period the insured is enrolled as an eligible student. Payment of benefits must be renewable.

- Certification of Immunization All students born after 1956 must meet immunization requirements of two doses of Measles and one dose of Rubella. Please refer to the "Immunization Documentation" form. This form is available from the UNF Office of Student Health Services Web page.

Effective July 1, 2008, all new matriculating students must provide documentation of vaccinations against meningococcal meningitis and hepatitis B or provide a signed waiver for each declined vaccination. All new matriculating students 18 or older who choose not to be vaccinated against either meningococcal meningitis or hepatitis B must sign a statement that they have been made aware of the potential fatal nature of the diseases and chose not to be vaccinated. All new matriculating minor-age students must provide signed parental consent to opt out of vaccination from either of these diseases. See Student Health Services section of this catalog for more information about these diseases. If you have questions, contact Student Health Services at (904) 620-2175, fax (904) 620-2901 or visit the Student Health Services website.

## Estimated Student Expenses

The following are estimated expenses for international students enrolled in graduate programs during the 2011-2012 academic year (fall 2011 and spring 2012). The costs for summer are additional. The estimated costs provided below are subject to change by the State of Florida Legislature.
Tuition and fees (9 credit hours each term)

| Books and supplies | $\$ 900.00$ |
| :--- | ---: |
| Room and board | $\$ 8,976.00$ |
| Miscellaneous expenses | $\$ 5,897.00$ |
| Estimated Total | $\$ 34,437.00$ |



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## Types of Admission Status

## Full-Time and Part-Time

In most, but not all programs, a student may attend either full-time (nine or more hours per term) or part-time (less than nine hours per term).

## Full Admission

Applicants who meet both the graduate admission requirements and those specific to the individual UNF graduate program are eligible to be fully accepted into the program.

## Provisional Admission

Some programs have an exceptions policy and will conditionally accept applicants who do not meet the graduate admission requirements. These applicants must meet the conditions stipulated by the program administrator of the graduate program in question. Such conditions might include, but are not limited to, successfully completing a prescribed series of graduate courses (a "trial" program).

Different programs use provisional admissions in different ways. Some will provisionally accept applicants who have met graduate admission requirements but not all of the program specific requirements. Other programs will provisionally admit an applicant who has not met all undergraduate prerequisite courses and permit this person to enroll in a limited number of 5000level courses while working to complete prerequisites. Other programs, however, require a provisionally admitted student to fulfill all undergraduate course prerequisites before enrolling in graduate courses.

## Post-Baccalaureate Admission

A person who does not wish to seek a degree, or who needs to complete undergraduate prerequisite coursework before being eligible to apply to the graduate program of their choice, may apply for post-baccalaureate admission. Post-baccalaureate status does not automatically confer the right to take graduate courses. The person must receive prior approval and electronic permission from the program director of the graduate program in which he or she wishes to take courses.

Up to 10 hours of graduate course work taken as a post-baccalaureate student may apply toward the master's degree once the person has been fully admitted to a graduate program of his or her interest.

## Certificate Program Admission

An applicant who meets the admission requirements for a certificate program is permitted to take a limited number of graduate courses. Some of these certificate programs require prior completion of
a baccalaureate degree, while others require prior completion of a master's degree. These programs result in the student receiving a non-degree certificate awarded by UNF or in completing the course work required for state licensure or certification. See program areas listed in this catalog for details.

## Special Admission for Transient Students

Under certain circumstances students currently enrolled at other universities may enroll at UNF as "transient students" on a space-available basis.

A student in good standing at an approved institution may apply to UNF for one term to complete work, the credit for which will be transferred back to the student's home institution. Applicants must submit either an official transcript or a letter from their college or university's Registrar verifying their good standing. A transient enrollment form or other documentation may be required by the program in which the student seeks to take coursework.

## Special Admission for Inter-Institutional Transient Students

A student in good standing at a school participating with UNF in various exchange programs or exchange agreements may apply to UNF for one term, or for the duration of a special program, to complete work the credit for which will be transferred back to the home institution. The student must be sponsored by his or her academic dean, who is responsible for arranging with the UNF Registrar's Office and the appropriate college dean for the student's visit. The student will register at UNF and pay UNF tuition and registration fees.

The process is the same for UNF students seeking to attend other institutions for a single term or for the duration of a special program. UNF students must have the support of their academic dean, who is responsible for arranging their visits. UNF students will register at and pay the tuition and fees of the institution they are visiting.

## Special Admissions for Veterans

To be eligible for VA benefits, veterans who seek Provisional Admission as Transient or InterInstitutional Transient students must meet the conditions stipulated by the Office of Veterans Affairs. The UNF office of Veterans Affairs can be contacted at (904) 620-5555.

## Readmission of Inactive Students

Students who have been accepted previously but who never enrolled or who have not taken courses for one year (three consecutive terms, including summers) must apply for readmission to the Graduate School. They will be required to pay a new application fee and may be responsible for meeting any new general admissions requirements or program specific requirements.

## Non-Discrimination

The University of North Florida encourages application from qualified persons and does not discriminate on the basis of race, color, religion, national origin, sexual orientation, veteran's status, disability, age, marital status, or gender. The president has delegated responsibility for the implementation of the University's equal opportunity and non-discrimination policies and affirmative action program to the director, Office of Equal Opportunity Programs. Inquiries about policies and practices may be directed to the EOP Office at (904) 620-2507.


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## Articulation Agreements and Institutional Agreements

The University of North Florida acknowledges formalized articulation agreements in an effort to support the transfer of students from certain institutions into four-year programs. This section outlines the types of articulation agreements that are accepted at UNF. For more information about articulated programs, please contact the Office of Admissions.

## Statewide 2+2 Articulation Agreement

Established in 1971, Florida's Statewide Articulation Agreement (codified in Section 1007.23, Florida Statutes and Chapter 6A-10.024, Florida Administrative Code) provides the foundation for the Associate of Arts Degree as the most direct means of transferring from a Florida college to one of the 11 state universities. Under this agreement, students who graduate from one of the state colleges with an Associate of Arts degree are guaranteed the following:

- Admission to one of the 11 state universities, except to limited access programs (Admission to the student's preferred public postsecondary institution or program is not guaranteed.)
- Acceptance of at least 60 semester hours by the state universities
- Adherence to the university requirements and policies, based on the catalog in effect at the time the student first enters the community college, provided the student maintains continuous enrollment
- Transfer of equivalent courses under the Statewide Course Numbering System

UNF adheres to the policies laid out under the Statewide Articulation Agreement. Students wishing to apply to UNF under this agreement are subject to all admissions policies and procedures. Applicants must meet admission requirements and all posted deadlines to be eligible for consideration.

## Career Ladder Degree Articulation Agreement

The Career Ladder agreement integrates specific associate in science degree programs with identified baccalaureate degree programs statewide. Each associate in science degree program must meet specific requirements as prescribed in the agreement and public postsecondary institutions are required to honor the transfer of credit toward the specified baccalaureate degree.

Graduates of a Florida community college associate in science degree program with an agreement that is documented and maintained by the Articulation Coordinating Committee shall be granted admission to a public postsecondary institution in the program designated to articulate with their degree, except for limited access programs and those requiring specific grades on particular courses for admission. Admission to the student's preferred public postsecondary institution is not
guaranteed.

UNF accepts the following Career Ladder programs:

- AS in Nursing to BSN in Nursing
- AS in Business Administration to BBA in Business Management
- AS in Criminal Justice Technology to BA in Criminal Justice

Read this document for specifics regarding transferability of credits and additional state requirements.

Students wishing to apply to UNF under this agreement are subject to all admissions policies and procedures. Applicants must meet admission requirements and all posted deadlines to be eligible for consideration. It is recommended that students contact UNF before applying through this agreement.

## Interinstitutional Articulation Agreements

UNF may also enter into program-specific articulation agreements with certain institutions when there is interest from both parties. These specific articulation agreements are kept on file in the Office of Admissions.


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# Brooks College of Health Overview 

- Dean's Message
- Vision, Mission and Values of the College


## Welcome to Brooks College of Health

Could you picture yourself in a remote village in Ghana, immersed in a culture foreign to you and helping a mother deliver her child? Now imagine a famous professional athlete as he sprints on a treadmill, with you standing beside him to measure his lung capacity. Envision a room full of children in the heart of Jacksonville's impoverished urban core, listening intently as you teach them about the importance of hand washing - lessons they desperately need to hear.

These experiences are not fiction. Students in the Brooks College of Health have had these opportunities - and more - as a result of our understanding that students' education bears more impact through transformational learning opportunities.

## Our Programs

In the University of North Florida Brooks College of Health, we pride ourselves as being a leader in the preparation of the highest quality health care professionals dedicated to serving the community. For this reason, the College is continually working to provide specialized programming in a wide range of health care fields. Currently, the Brooks College of Health offers Bachelor's degrees in Health with specializations in Community Health, Athletic Training, Exercise Science, and Health Administration. We also offer a Bachelor of Science in Nutrition and in Nursing as well as an RNBSN program for registered nurses desiring to further their education.

Our graduate programs include a Master's degree in Nursing, Public Health, Health Administration, Mental Health Counseling, Aging Services Management and Nutrition. We also offer two doctoral degrees: a Doctorate of Nursing Practice and a Doctorate of Physical Therapy.

An integral part of each of these outstanding programs is the emphasis on quality time in clinical settings and laboratories, the use of the most up-to-date technologies, innovative faculty and student research, and the opportunity for hands-on learning experiences. Of course, all of these diverse programs and learning opportunities are directed and enhanced by our outstanding faculty.

We know there is no one like you. We believe there is no place quite like this. While academic rigor and meticulous professional experiences are the hallmarks of an education at the Brook College of Health, there is very much a culture of caring. We are dedicated to providing the highest quality health care.

I hope you will take some time to learn more about the Brooks College of Health and all that we

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have to offer. While exploring our program offerings, college news, alumni activities and faculty home pages, you will find that we are dedicated to providing the utmost in quality health care education.


Pamela S. Chally, PhD, RN
Dean, Brooks College of Health
University of North Florida
pchally@unf.edu

## Vision, Mission and Values of the College

## Vision

To gain national recognition as a leader in the study of health and the preparation of health professionals through outstanding teaching, scholarship, and service.

## Mission

To develop competent and caring health professionals for the 21st century who are diligent in the pursuit of knowledge, make significant contributions to the communities and individuals that they serve, and become leaders of their chosen professions.

## Values

In the fulfillment of our mission, the Brooks College of Health upholds the following values:
Collegiality: We support a culture characterized by open communications, collaboration, and cooperation.
Diversity: We treat everyone in our diverse community with consideration, dignity and mutual respect.
Excellence: We hold each other to the highest standard of quality and performance.
Fulfillment of Potential: We are committed to development through lifelong learning.
Integrity: We conduct ourselves in an ethical and respectable manner.
Professionalism: We are role models of professionalism who always demonstrate the highest professional standards and caring attitudes for our clients.
Quality: We are dedicated to the never-ending pursuit of improving healthcare for the benefit of our patients.
Responsibility: We are responsible for our attitudes and actions.
Service: We provide service to our university, communities and professions.
Well-Being: We promote physical, emotional, and social well-being.

## Goals

1: Strengthen Quality and Reputation of Academic Programs
2: Increase Degree Productivity and Program Efficiency.
3: Increase the Number of Degrees Awarded in STEM and Other Areas of Strategic Emphasis.
4: Strengthen the Quality and Reputation of Scholarship, Research, and Innovation.
5: Increase Research and Commercialization Activity.
6: Increase Collaboration and External Support for Research Activity.

7: Strengthen the Quality and Recognition of Commitment to Community and Business.
8: Increase Levels of Community and Business Engagement.
9: Increase Community and Business Workforce.
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## Department of Clinical \& Applied Movement Sciences

The Department of Clinical \& Applied Movement Sciences offers a Bachelor of Science in Athletic Training and a Bachelor of Science in Health, Exercise Science Concentration. The Bachelor of Science (B.S.) in Athletic Training will prepare students for the Board of Certification Examination to become a Certified Athletic Trainer and a career at the secondary school, college and university, and professional athletic, clinic, hospital, industrial, and performing arts settings. The Athletic Training Education Program is fully accredited by the Commission on Accreditation of Athletic Training Education (CAATE). Information about the accreditation status can be obtained from CAATE at 2201 Double Creek Drive, Suite 5006, Round Rock, TX 78664, phone (512) 7339700. The Exercise Science concentration culminates in a Bachelor of Science in Health (B.S.H.) degree. Of major concern to society is the health and well-being of its citizens.
Exercise Physiologists are health care professionals that utilize knowledge of the human body's adaptive responses to exercise to address an individual's health, fitness, or performance goals.To view undergraduate degree and admission requirements for these majors, click here.

The Masters of Science in Health, Exercise Science and Chronic Disease (MSH in ESCD) and Doctor of Physical Therapy are offered as a graduate programs at the University of North Florida. The Masters of Science in Health, Exercise Science and Chronic Disease integrates advanced training in exercise science and epidemiology. The field of Exercise Epidemiology examines the relationship(s) between physical activity, sedentary behavior and fitness level with chronic diseases ubiquitous in today's society. The MSH in ESCD is a graduate that degree integrates advanced training in exercise science and epidemiology. The field of Exercise Epidemiology examines the relationship(s) between physical activity, sedentary behavior and fitness level with chronic diseases ubiquitous in today's society.

Physical Therapists are health professionals who work with individuals in preventing, evaluating, and treating physical dysfunction and injury. An understanding of human movement serves as the foundation for the practice of physical therapy. The physical therapy program at the University of North Florida (UNF) provides graduates with the knowledge and skills to become generalist practitioners of the highest caliber. Physical therapists are graduates of an accredited physical therapy program who have passed a licensure examination. UNF's Physical Therapy Program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), and graduates are eligible to take the national licensure examination. Click here for admission and degree requirements.

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## Department of Clinical \& Applied Movement Sciences Faculty

Joel W. Beam, Ed.D, A.T.C., L.A.T., Associate Professor, Chair

## Program Directors

Michelle Boling, Ph.D, A.T.C., L.A.T., Associate Professor, Athletic Training Education Program James Churilla, Ph.D., MPH, RCEP, Associate Professor, Graduate Exercise Science Concentration
Peter Magyari, Ph.D., HFS, CSCS, Associate Professor, Undergraduate Exercise Science
Concentration

## Faculty

Christopher Joyce, Ph.D., L.A.T, A.T.C., Associate Professor, Athletic Training Program
Bernadette Buckley, Ph.D., L.A.T, A.T.C., Associate Professor, Athletic Training Program, Clinical Education Coordinator
Melissa Conway-Hartman, M.Ed., A.T.C., Instructor
Leo Calderon, M.P.T., A.T.C., L.A.T., Adjunct Instructor
Bryan Anderson, M.S., A.T.C., L.A.T., Adjunct Instructor

## Doctor of Physical Therapy

Paul Mettler, Ed.,D, P.T., Associate Professor \& Director

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## School of Nursing

## Baccalaureate Nursing Program

The baccalaureate nursing program is accredited by the Commission on Collegiate Nursing Education. The School of Nursing is committed to providing opportunities for students to pursue their first professional degree in nursing. The program is designed to encompass both liberal arts and professional studies. The primary goal of the program is to prepare nurses to practice effectively in a variety of settings and administer nursing care, which promotes, maintains, and restores health to individuals, families and communities. Leadership and a commitment to the profession through research are included in the competencies of the program. Graduates are prepared to function not only as professional practitioners, but also as educated citizens capable of effecting and dealing with change in society. The program also provides a strong basis for continuing education and graduate study in nursing. Click here for admission and degree requirements.

## Graduate Nursing Programs

The School of Nursing offers a Master of Science in Nursing (M.S.N.) with several tracks. The tracks include Primary Care Nurse Practitioner, Clinical Nurse Specialist, and Nurse Anesthetist . The School also offers a Family Nurse Practitioner certificate.

The Doctor of Nursing Practice program at the University of North Florida is designed as a postgraduate degree program for those who already possess, at a minimum, a Master of Science in Nursing and specialty certification. This program is taught primarily online with two courses taught as a hybrid of online and in-person components (Evidenced-Based Practice I and II). Click here for admission and degree requirements.

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## School of Nursing Faculty

## Lillia M. Loriz, Ph.D., G.N.P., B.C., Professor \& Director, School of Nursing

Kathaleen C. Bloom, Ph.D., C.N.M., Professor \& Associate Director, Undergraduate Studies

## Undergraduate Program Coordinators

William D. Ahrens, M.S.N., R.N., Director, Regular Prelicensure B.SN.
Cynthia Cummings, Ed.D., R.N., Director, Accelerated Prelicensure B.S.N.
Debra Wagner, Ph.D., C.N.M., Director, R.N.-B.S.N.

## Faculty

Pamela S. Chally, Ph.D., R.N., Professor
Lucy B. Trice, Ph.D., A.R.N.P., B.C., Professor Emeritus
Jan, Meires, Ed.D., A.R.N.P., B.C., Professor
M. Catherine Hough, Ph.D., R.N., Associate Professor

Barbara Kruger, Ph.D. R.N., Associate Professor
Barbara Olinzock, Ed.D., R.N., Associate Professor
Doreen Radjenovic, Ph.D., A.R.N.P., B.C., Associate Professor
Katherine Robinson, Ph.D., R.N., Associate Professor
Irma Ancheta, Ph.D., R.N., Assistant Professor
Judy Comeaux, D.N.P., A.R.N.P., Assistant Professor
Bonnie Pope, Ph.D., F.N.P, B.C., Assistant Professor
Connie Roush, Ph.D., R.N., Associate Professor
Peggy L. Hoff, M.N., A.R.N.P., B.C., Senior Instructor
Julie Baker-Townsend, M.S.N., A.R.N.P. B.C., Instructor
Linda Connelly, M.S.N., A.R.N.P., Instructor
Jane Sander, D.N.P., A.R.N.P., Instructor
Mary Ellen Locklear, M.S.N., Instructor

## Graduate School of Nursing

Lillia M. Loriz, Ph.D., G.N.P., B.C., Professor \& Director, School of Nursing
John P. McDonough, Ed.D., C.R.N.A.., Professor \& Associate Director for Graduate Nursing Programs

## Graduate Program Directors

John P. McDonough, Ed.D, C.R.N.A., Professor \& Director, Nurse Anethesist Program Michele Bednarzyk, D,N.P, F.N.P., B.C., Assistant Professor \& Program Director, Nurse Practitioner Program
\& Director, Nurse Practitioner Program

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Gerard Hogan, D.N.S.C., C.R.N.A., Assistant Professor \& Director, Doctor in Nursing Practice Program

## Faculty

Kathaleen C. Bloom, Ph.D., C.N.M., Professor
Pamela S. Chally, Ph.D., R.N., Professor
Carol Ledbetter, Ph.D., ARNP, B.C., F.A.A.N, Professor
Patrick Monaghan, Ph.D., Professor
Jan Meires, Ed.D, A.R.N.P., B. C., Professor
Lucy B. Trice, Ph.D., A.R.N.P., B.C., Professor Emeritus
M. Catherine Hough, Ph.D., R.N., Associate Professor

Barbara Kruger, Ph.D., R.N., Associate Professor
Barbara Olinzock, Ed.D, R.N., Associate Professor
Doreen Radjenovic, Ph.D., A.R.N.P., B.c., Associate Professor
Katherine Robinson, Ph.D., R.N., Associate Professor
Irma Ancheta, Ph.D., R.N., Assistant Professor
Connie Roush, Ph.D., R.N., Associate Professor
Michele Bednarzyk, D.N.P., A.R.N.P., B.C., Assistant Professor
Cynthia Cummings, Ed.D., R.N., Assistant Professor
Jurgen Osterbrink, Ph.D., R.N.A., Clinical Professor
Debra Wagner, Ph.D, C.N.M., Assistant Professor
Gerard Hogan, D.N.S.C., C.R.N.A., Assistant Professor
Jane McCarthy, Ph.D., A.R.N.P., F.A.A.N, Professor
Tammy Carroll, M.S.N., C.R.N., Instructor \& Assistant Program Director, Nurse Anesthetist
Program
Debron Harmon, M.S.N, C.R.N.A., Instructor
Jonathon Pabalate, D.N.P., C.R.N.A., Assistant Instructor
Ryan Shores, M.S.N, C.R.N.A., Instructor


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## Department of Nutrition \& Dietetics

## Undergraduate Program

The Department of Nutrition and Dietetics offers a rigorous undergraduate program culminating in a Bachelor of Science in Nutrition and Dietetics degree. The UNF Nutrition \& Dietetics Program is also called a Didactic Program in Dietetics (DPD) and is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics, 120 south Riverside Plaza, Suite 200, Chicago, IL 60606-6995 (acend@eatright.org).

Program graduates are encouraged to pursue the registered dietitian (RD) credential which requires the completion of a post-baccalaureate ACEND accredited dietetic internship and passage of the national RD examination. Other options are to seek professional employment in food service management or nutrition education, and/or further their education. RD's work with diverse populations in a variety of settings including hospitals, wellness centers, clinics, food and supplement companies, health agencies, nursing homes, school districts, universities, and mental health centers. Many RD's own businesses as well.

To learn more about the nutrition profession and dietetic internships, visit the website of the Academy of Nutrition and Dietetics. To view the program requirements, click here.

## Graduate Program

The Department of Nutrition and Dietetics offers a Master of Science in Nutrition and Dietetics with three specialization options. These specializations are designed for those students who wish to emphasize the application of nutritional knowledge to the design and operation of community-based health programs. There are three options to this 43 -credit-hour program. The M.S./ Nutrition/Internship is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), the accrediting agency for the Academy of Nutrition and Dietetics, 120 South Riverside Plaza, Chicago, IL 60606, phone: (312) 899-0040, email: acend@eatright.org. This program enables graduates to fulfill the requirement for a pre-professional practice experience and become eligible to sit for the National Registration Examination. Fifteen students are admitted each fall to this four-semester full-time program and students must complete both the master's degree and internship experience in order to receive a verification statement and sit for the Dietetic Registration Exam. The second option, M.S./Nutrition thesis, allows students to pursue an independent research project as a culminating experience in their master's program. The third option, M.S./Nutrition nonthesis program, allows students to complete 12 pre-approved credits through a series of project, field experience, and independent study courses. These two options are primarily designed for registered dietitians who wish to pursue graduate training with an emphasis in clinical or community dietetics. The coursework for all these programs is delivered using a distance learning format.

If the undergraduate degree is not in nutrition or dietetics, it is recommended that students apply as a post-baccalaureate student to meet prerequisite requirements. Persons with a bachelor's in nutrition

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or dietetics that is older than seven years will receive a course-by-course evaluation to determine needed prerequisites after application is made to the program.

Fifteen students are admitted each fall to this four-semester full-time program and students must complete both the master's degree and internship experience in order to receive a verification statement and sit for the Dietetic Registration Exam.

## Admission Requirements

In addition to satisfying general University criteria for admission into a graduate program, students wishing to enter the degree program leading to the Master of Science degree must present GRE scores (300 minimum total based on the new scoring system) on verbal and quantitative sections) or a grade point average of 3.0 or higher in all work completed as an upper-division student (normally 60 semester hours taken during the last two years of undergraduate study). GRE scores are mandatory and must be received prior to being fully admitted into the graduate program. Students who do not meet these requirements must submit three letters of recommendation in order to be considered for a trial program. To view degree requirements, , click here.

## Individualized Supervised Practice Program (ISPP)

The University of North Florida's Department of Nutrition and Dietetics is also piloting a new dietetic practice pathway. It is a non-credit, non-degree program referred to as the Individualized Supervised Practice Program (ISPP), made possible by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), the accrediting agency for the Academy of Nutrition and Dietetics. The Individualized Supervised Practice Program of UNF is essentially a distance dietetic internship track that allows motivated candidates the opportunity to find and utilize facilities/agencies in the candidate's community and other locations, and complete the required supervised practice competencies with minimal supervision. Persons who wish to apply to the ISPP must complete the ISPP application for consideration for admission. The information about, and fees for, this program are available on the University Website.


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## Department of Nutrition \& Dietetics Faculty

Judith Rodriguez, Ph.D., R.D., L.D./N., F.A.D.A., Professor \& Chair

## Program Directors

Jacqueline Shank, M.S., R.D., L.D./N, Undergraduate Program Director \& Instructor Catherine Christie, Ph.D., R.D., L.D./N., F.A.D.A., Associate Dean \& M.S.H. Nutrition Program Director
Claudia Sealey-Potts, Ph.D., R.D.. M.S./D.I., Assistant Professor
Faculty
Jenna Braddock, M.S.H., C.S.S.D., R.D.
Corrine Labyak, PhD, R.D., Assistant Professor
Judy Perkin, Dr. P.H., R.D., CHES, Professor
Jen Ross, M.S.H, R.D., Instructor

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## Department of Public Health

## Undergraduate Programs

The Department of Public Health offers undergraduate programs culminating in a Bachelor of Health Administration (B.H.A.) degree and a Bachelor of Science in Health (B.S.H.) degree. The Department also offers a minor in public health for students outside of the College.

The B.H.A. degree is designed to prepare graduates for entry-level administrative positions in hospitals, clinics, nursing homes, mental health organizations, insurance companies, medical group practices public agencies, and many other types of health care organizations. It also serves to help enhance careers of students already working in the health services industry. Students can pursue the traditional Health Administration track or the Aging Services Concentration. Students interested in aging services or long term care management may select course work and an internship that will allow them to qualify to take the Florida Nursing Home Administrator's licensing examination. An opportunity to pursue other special interests is provided with selection of 9-12 hours of elective course work.

The B.S.H. degree,Community Health Track, prepares graduates to encourage healthy lifestyles and wellness. Professionals inform and educate individuals and communities about behaviors that promote healthy living and prevent disease and illness. Careers may involve planning, implementing, or evaluating health promotion and disease prevention programs, conducting public health related research, grant writing, or mass media campaigns. Graduates are typically employed in governmental and non-profit health agencies, health care facilities, work site wellness programs or school settings.

## University Minor in Public Health

A University-wide minor in Public Health is available for non-Health Science majors. Students interested in the Public Health minor should contact the Brooks College of Health Advising Office at (904) 620-620-2812. Departments or divisions that wish to offer a minor in Public Health may do so provided they complete the requirements.

## Graduate Programs

The Department of Public Health offers graduate programs in Master of Health Administration, Master of Public Health, Master of Science in Health (Specialization in Geriatric Management), and Master of Science in Clinical Mental Health Counseling, Certificate in Public Health, and Certificate in Aging Services. Students applying to the master program must have a earned baccalaureate degree from an accredited college or university recognized by the University of North Florida. Click here to see admission and degree requirements.

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## Department of Public Health Faculty

Jeffrey Harrison, Ph.D., Professor \& Chair

## Undergraduate Program Directors

Elissa Barr, Ph.D., Associate Professor \& Director, Community Health Program
Mei Zhao, Ph.D., Associate Professor \& Director, Health Administration Undergraduate Program

## Undergraduate Faculty

Cynthia Battie, Ph.D., Professor
Michele Moore, Ph.D., Professor
Sharon Wilburn, Ph.D., Professor
Kerry L. Clark, Ph.D., Associate Professor
Jeffrey Harrison, Ph.D., Associate Professor
JoAnn Nolin, J.D., R.N., Associate Professor
D. Robert Haley, Ph.D., Associate Professor

Gerald Colvin, Ph.D., Assistant Professor
Tammie Johnson, Ph.D., Assistant Professor
Erin Largo-Wight, Ph.D., Associate Professor
Aaron Spaulding, Ph.D, Assistant Professor
Richmond Wynn, Ph.D, Assistant Professor
Damian Everhart, Ph.D, Assistant Professor
Julie Merten, M.S.H., Instructor
Melissa Covey, M.S.H, Instructor
Donald Hutton, M.B.A., FACHE, Executive-in-Residence Graduate Program Directors
Michele Moore, Ph.D., Professor \& Director, Public Health Program
JoAnn Nolin, J.D., R.N., Associate Professor \& Director, Geriatric Management Program
Sharon Wilburn, Ph.D., Professor \& Director, Clinical Mental Health Counseling Program
Mei Zhao, Ph.D., Associate Professor \& Director, Health Administration Program

## Graduate Faculty

Cynthia Battie, Ph.D., Professor
Lynne Carroll, Ph.D., Professor
Tes Tuason, Ph.D., Professor
Elissa Barr, Ph.D., Associate Professor
Kerry L. Clark, Ph.D., Associate Professor
Jeffrey Harrison, Ph.D., Associate Professor
Cynthia Scott, Ph.D., Associate Professor
D. Robert Haley, Ph.D., Associate Professor

Tammie Johnson, Ph.D., Assistant Professor
Erin Largo-Wight, Ph.D., Assistant Professor

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Richmond Wynn, Ph.D., Assistant Professor
Gerald Colvin, Dr. PH, Assistant Professor
Aaron Spaudling, Ph.D., Assistant Professor
Donald Hutton, M.B.A., Executive-in-Residence and Instructor

"ONLY THOSE WHO WILL RISK GOING TOO FAR CAN POSSIBLY FIND OUT HOW FAR THEY CAN GO." g. 9. \&liot

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## Coggin College of Business Overview

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## Dean' s Message

Welcome to the Coggin College of Business at the University of North Florida. We are well- known for strong undergraduate and masters programs complemented by transformational learning opportunities. In 2013, we were named an outstanding business college by the Princeton Review for the 6th year in a row.

Our faculty are accomplished researchers, well-known in their areas of expertise and beyond. Our bachelor's degree programs in accounting, economics, finance, financial services, international business, logistics, management and marketing are vibrant and growing. In fact, two of our programs (International Business and Transportation \& Logistics) have flagship designation. This an indication of outstanding program quality, national recognition and a global talent pool of faculty and students. Our graduate programs include an MBA, Global MBA, Global Entrepreneurship MBA, and Masters in Accounting. Of course, we have AACSB accreditation in business and in accounting for our undergraduate and graduate programs. AACSB accreditation is the international gold standard for quality academic programs in business management.

Some of the transformational learning opportunities that we offer are internships (arranged by our inhouse Career Management Center), study abroad in Africa, Asia, Europe and South America, and state of the art business computing technology. Our Logistics Lab has cutting edge optimization software and our Financial Trading Lab is equipped with the best trading simulation software. For hands on learning experience with investing, our students managed the Osprey Fund and compete with the finest minds in the business. Capitalizing on our location in the thriving Jacksonville metropolitan area, we have partnerships with national accounting firms, financial institutions, insurance companies, transportation companies and medical services providers, among others. Much of this interaction is via an active and engaged Business Advisory Council and a Business Associates Council.

Our business centers, which supplement academic research and support the community with business and economic data include the Bank of America Institute, Center for International Business Studies, Institute for Management Development and Organizational Quality, Local Economic Indicators Project, the Paper Institute, the Research Center in Economic and Geographic Information Systems, Center for Sustainable Business Practices and the Small Business Development Center.

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I urge you to explore beyond our website and visit us at the Coggin College. We will be delighted to meet you and show you what we have to offer.

Ajay Samant, Ph.D.
Dean \& Professor of Finance
Coggin College of Business
University of North Florida

## Accreditation

The Coggin College of Business is fully accredited at both the undergraduate and graduate levels by AACSB International - The Association to Advance Collegiate Schools of Business. Further, the Accounting programs at both the undergraduate and graduate levels have received separate accreditation by AACSB International - The Association to Advance Collegiate Schools of Business. AACSB is the premier accrediting agency for business schools internationally with only 620 business schools holding this distinction and only 177 accounting programs holding this distinction.

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## Mission

To educate and develop business professionals through accredited degree programs by having both students and faculty engaged in scholarly activities for the discovery and application of knowledge.
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## Vision

The Coggin College of Business aspires to be the institution of first choice for business education, serving North Florida wtih top-qualilty faculty excelling in teaching and scholarship, and sharing wtih students their passion for life-long dsicovery and community service.

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## Values

Coggin College staff, students, and faculty work together in a learning community characterized by civility, mutual respect, and open, honest communication.

The distinctiveness of our learning community is exemplified by the values that we consider most important. Specifically, we value:

- faculty-student interaction of the highest quality;
- global perspective, as an essential aspect of relevant business education; and
- commitment to enthusiasm for continuous learning.

Our faculty and staff embrace these values and encourage our students to do the same. As our students observe professional interactions among faculty, staff and their peers, they are provided with behavioral models to emulate.

Our goal is to live and share these values so that students learning in the Coggin College, which could be limited to receiving information, instead becomes transformational learning. That is, it
results in a positive shift in the way students think, view themselves, and view the world around them.

This transformational learning takes place in our classrooms and in experiential learning opportunities such as study abroad; internships; participation in student organizations; involvement in research projects with our faculty; and professional interactions with our staff.

We expect that students who are engaged in the Coggin College learning community will obtain high-quality positions upon graduation and have successful careers as business professionals. As alumni, they become the "Brand" of the Coggin College.
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## Wall Street Journal Partnership

Each student enrolling in one or more Coggin College of Business courses numbered 3000 or higher is assessed a fee each semester. In return, each student is able to pick up a copy of The Wall Street Journal (WSJ) from locations within the College. Moreover, each student will receive access to all of the WSJ's online editions (e.g., European, Asian), as well as Barron's online and the WSJ Employment Edition. Additional information is available at http://www.unf.edu/coggin/advising/wsj.aspx.
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## Jacksonville Business Journal Partnership

UNF's Coggin College of Business is proud to have partnered with the Jacksonville Business Journal. Every Coggin College of Business Student has online access to the Jacksonville Business Journal. This publication puts the students finger on the pulse of the local business community with access to: Exclusive Job Prospecting, Comprehensive Curriculum Supplement, Quick Research, User-Friendly pages that are also Eco-Friendly (online). Additional Information is available at http://www.unf.edu/coggin/advising/jbj.aspx.


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## Department of Accounting \& Finance

Phone: (904) 620-2630
Web Address: http://www.unf.edu/coggin/accounting
The Master of Accountancy and Bachelor of Business Administration in Accounting degree programs are separately accredited by AACSB International - The Association to Advance Collegiate Schools of Business. In accounting, approximately 177 institutions have achieved AACSB accreditation at various degree levels.

## Mission

The Department of Accounting and Finance of the University of North Florida shares with the University of North Florida and the Coggin College of Business its fundamental mission.

Within UNF's Department of Accounting and Finance the accounting, finance and financial services programs are committed to providing high-quality undergraduate and graduate instruction, with particular emphasis on accounting, finance and financial services education that serves the needs of Northeast Florida. The faculty is committed to teaching excellence enhanced by research and interaction with the accounting and finance professionals in the broader business community. Specifically, the Department of Accounting and Finance seeks:

To provide Bachelor of Business Administration degrees, which prepare graduates for entry into professional and managerial positions in accounting, finance, and financial services.

To provide a professionally oriented Master of Accountancy degree, which enables career advancement in the accounting profession and the additional accounting coursework necessary to take the Certified Public Accountant (CPA) examination under Florida's accountancy law.

To provide MBA students seeking to fulfill the CPA requirements the coursework necessary to take the CPA examination under Florida's accountancy law.

To provide quality undergraduate and graduate instruction in accounting and finance, which prepares students for lifelong learning and success.

To provide intellectual contributions that enhance the delivery of instruction to students, improve the application of existing knowledge, and provide solutions primarily to regional issues. The primary emphasis for intellectual contributions is applied research, followed by instructional research, and pure research.

To provide service, which contributes to meeting the personal, professional, and life-long, learning needs of our students, the University community, the business community, and alumni.

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To provide internship and field experience opportunities to departmental students.

To attract and retain quality faculty dedicated to teaching, research and service activities consistent with the goals of the department, college and University.

To pursue continuous improvement in teaching, research and service, the department and its stakeholders will regularly evaluate its mission, objectives and outcomes.

The programs in the Department of Accounting and Finance are designed to provide students with the tools and concepts necessary to practice in the complex professions of accounting, finance, financial services, and real estate. These disciplines are central to the proper understanding and functioning of all sectors of the economy. At UNF, these areas are taught from the viewpoint of the problems they are intended to help solve. Consequently, decision-making implications receive a high priority. Programs of the department are designed to allow the student to pursue a variety of career objectives.

One Course Repeat Rule: The Department of Accounting and Finance enforces the "one repeat rule" for all upper-division courses taught in the department, except FIN 3403 and FIN 4604. This rule applies to any course with a prefix of ACG, FIN, REE, RMI, or TAX. Students who do not successfully complete a course on the first attempt (i.e., earn a grade of D, F, W, WP, or WF) will be granted one chance to repeat the course. Students who do not successfully complete a course with two attempts will not be permitted to register for the course in future semesters.

## Accounting Major

The objectives of the BBA in Accounting are:
To attract and retain students from diverse backgrounds with the abilities required for success in accounting careers.

1. To provide accounting students with analytical, team-building, and technological skills; written and oral communication skills; critical thinking, research and problem solving skills that are necessary for lifelong success in the accounting profession.
2. To provide exposure to economic, global, political, social, legal, ethical, regulatory, environmental, and technological issues.
3. To encourage students to become active in professional organizations in accounting and taxation.
4. To maintain an AACSB accredited undergraduate degree program.
5. To prepare students to enter quality graduate programs.
6. To provide students not seeking a graduate degree a means of fulfilling the CPA requirements in Florida.
7. To provide internship and field experience opportunities to students.
8. To provide students the opportunity to work with faculty on research projects.
9. To provide students opportunities for international travel and study.

While the objectives of the various accounting areas of study have several common paths, there is a point where they diverge. Public accountants need more emphasis in the concepts and standards of auditing and financial reporting. Management accountants, serving as controllers, treasurers, and other financial executives need more concentration in the use of accounting data for predicting future costs and income, as well as for evaluative purposes. Governmental accountants need additional emphasis in special accounting methods for non-profit organizations. Internal auditors need to be able to evaluate managerial effectiveness and efficiency

Regardless of their choice, students will be expected to demonstrate a sound liberal arts education so that their accounting studies can be seen in the perspective of the broader purposes of the organization that employs them, of society's economic, social and cultural institutions, and of their own life goals.

## Finance Major

The shared objectives of the BBA in Finance and the BBA in Financial Services are:

1. To attract and retain students from diverse backgrounds with the abilities required for success in finance careers.
2. To provide finance students with the skills necessary for success in the finance profession, including analytical, team-building, and technological skills; written and oral communication skills; critical thinking, research and problem-solving skills that are necessary for lifelong success in the finance field.
3. To provide exposure to global, political, social, legal, ethical, regulatory, environmental, and technological issues.
4. To encourage students to become active in professional organizations in finance.
5. To provide internship and field experience opportunities to students.
6. To provide students an opportunity to work with faculty on research projects.
7. To provide students opportunities for international travel and study.

The major in finance is designed to develop an understanding of the financial aspects of the contemporary economy, the operation of financial institutions, and the financial management of business operations. The program offers three primary focuses.

Option 1: Corporate - emphasizes financial management of the firm and focuses on financial analysis, planning, control, and formulation and implementation of corporate financial strategy. The objective of this option is to prepare students for careers as financial managers of corporations or other for-profit or non-profit organizations.

Option 2: Investments - emphasizes security and portfolio analysis, the trading and creation of the various instruments within the markets, and the management of assets and liabilities. The objective of this concentration is to prepare students for careers as financial analysts and to begin the preparation of students for the Level I test of the Certified Financial Analysis (CFA) designation.

Option 3: Real Estate - prepares students for careers in the diverse field of real estate. The program is designed to acquaint students with real estate brokerage, management, appraisal, acquisition, lending, and development with particular emphasis on real estate appraisal, finance, and investment.

The selection of courses for the major in finance should be arranged by students with their academic advisor in conformance with the general requirements outlined below. FIN 3403 and FIN 3233 should be the first two finance courses taken. It is incumbent upon students to plan their courses with the semester in which they are normally offered. Requests for course substitutions in order to graduate without required concentration courses will rarely be granted. Students are warned not to delay taking their finance courses because of prerequisites and limited course offerings.

## Finance Curriculum

## Financial Services Major

The shared objectives of the BBA in Finance and the BBA in Financial Services are:

1. To attract and retain students from diverse backgrounds with the abilities required for success in finance careers.
2. To provide finance students with the skills necessary for success in the finance profession, including analytical, team-building, and technological skills; written and oral communication skills; critical thinking, research and problem-solving skills that are necessary for lifelong success in the finance field.
3. To provide exposure to global, political, social, legal, ethical, regulatory, environmental, and technological issues.
4. To encourage students to become active in professional organizations in finance.
5. To provide internship and field experience opportunities to students.
6. To provide students an opportunity to work with faculty on research projects.
7. To provide students opportunities for international travel and study.

The major in financial services is designed for the student who is interested in a career in the dynamic financial services sector which includes personal financial planning, banking, insurance, and related areas.

Financial Planning Concentration: This concentration integrates finance, accounting, employee benefits, and insurance. The objective is to prepare students for careers in the growing fields of financial services and financial planning. This concentration also emphasizes communication skills. The curriculum is designed to prepare students for the examinations leading to professional designations such as Certified Financial PlannerTM (CFP TM) and Chartered Financial Consultant (ChFC).

The selection of courses for the major in financial services should be arranged by students with their academic advisor in conformance with the general requirements outlined below.

The requirements for a major in financial services are:

1. Prerequisites for Coggin College of Business:

60 lower-level credit hours from an approved institution (See accounting curriculum for complete details).
2. Requirements to earn the bachelor of business administration degree with a major in financial services are:

CFPTM and Certified Financial PlannerTM are certification marks owned by the Certified Financial Planner Board of Standards, Inc. These marks are awarded to individuals who successfully complete the CFP Board's initial and ongoing certification requirements.

Financial Services Curriculum


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## Department of Accounting \& Finance Faculty

Phone: (904) 620-2630
Web Address: http://www.unf.edu/coggin/accounting
David Jaeger, Associate Professor \& Chair
Thomas L. Barton, Professor \& Chairholder
Timothy Bell, Professor, Chairholder \& Coggin Distinguished Professor of Accounting
Charles H. Calhoun, Professor
Reinhold P. Lamb, Professor \& Chairholder
John B. MacArthur, Professor \& Chairholder
John P. McAllister, Professor
Jeffrey E. Michelman, Professor \& Director of International Business Flagship Program
Oliver Schnusenberg, Professor
Parvez Ahmed, Associate Professor
Lynn M. Comer-Jones, Associate Dean \& Associate Professor
Pieter de Jong, Associate Professor
Cheryl J. Frohlich, Associate Professor
John E. McEldowney, Associate Professor
Sean Davis, Assistant Professor
Hubert W. Gill, Senior Instructor
Diane L. Tanner, Senior Instructor
James McCague, Instructor

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## Undergraduate

- A grade of " C " or better is required in all courses.
- Please see an advisor for an OFFICIAL program of study and your personalized My Osprey Map to stay on track for graduation.
- You must complete prerequisites before registering for any course. Refer to the Course Catalog for details.
- Accounting \& Finance majors are encouraged to take advantage of internship and study abroad opportunities for credit. See academic advisor for details.
- There are opportunities for select students to do research with a professor for credit. A student's GPA must be 2.5 or better to take advantage of this opportunity.
- Students have 10 years to complete these programs
- A student must have a UNF \& program GPA of 2.0 or better in order to graduate.


## One Repeat Policy

The Department of Accounting and Finance enforces the "one repeat rule" for all upper-division courses taught in the department, except FIN3403 and FIN4604. This rule applies to any course with a prefix of ACG, FIN, REE, RMI, or TAX. Undergrate students who do not successfully complete a course on the first attempt (i.e., earn a grade of D, F, W, or WF) will be granted one chance to repeat the course. Students who do not successfully complete a course with two attempts will not be permitted to register for the course in future semesters.

## Graduate

- Master of Accountancy students are expected to make a "B" or better in all graduate level courses.
- Students have 7 years to complete this program.
- Transfer courses are very restricted. See your academic advisor for details.
- A student must have a UNF graduate level GPA of 3.0 or better in order to graduate.

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# Department of Economics \& Geography 

Phone: (904) 620-2640
Web Address: http://www.unf.edu/coggin/economics

## Mission

The Department of Economics and Geography is committed to the delivery of exceptional undergraduate and graduate instruction by faculty members who are both actively engaged in scholarly activities and capable of integrating the results of their research into their instructional activities. Our intent is that this instruction will emphasize our role in guiding students to prepare them to be intellectual resources that will continually redevelop to serve many organizations over a productive career. Students are expected to take courses in microeconomics and macroeconomics, as well as econometric courses that provide the foundation of the instrumental to undertake economic analysis. Students will gain experience in the understanding of the global economy by taking international economics courses as well as having a study abroad experience. We also recognize our responsibility to provide economics related service to the University and Jacksonville communities.

## Economics Major

The program in the Department of Economics and Geography in the Coggin College of Business is designed to provide students with the tools and concepts necessary to understand our modern economy, to function more effectively as citizens, and to make sound decisions. A major in economics opens the door to a wide variety of jobs in business, government, finance, and the professions. Economics is particularly appropriate for those students who plan to enter public service or law, whether in the community or at other levels, or who plan to go on to graduate study.

Students should choose their elective courses in economics in support of their expected career goals._The department faculty recommends the following:

Students interested in emphasizing international economics, should take 3 of the following:

- ECO 3703 International Economics
- ECO 4723 International Monetary System
- ECS 3013 Economic Development
- ECS 3303 Current Issues in the Economics of the European Union
- ECS 3403 Current Issues in the Economy of Latin America

Students planning to enroll in law school should take 3 of the following:

- ECO 4504 Public Finance
- ECP 3403 Economics of Industrial Organization

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- ECP 4413 Government and Business

Students planning to enroll in graduate school in economics should take 3 of the following:

- ECO 3411 Business and Economic Statistics
- ECO 3422 Advanced Econometrics
- ECO 4401 Mathematical Economics
- GIS 3043 Introduction to Geographic Information Systems

The faculty strongly recommends that these students pursue at least a minor in mathematics or statistics, to include some of the following courses, (note that graduate school admission requirements in economics often require Calculus I and II and Linear Algebra):

- Calculus I and II (additional courses are encouraged
- Linear Algebra
- Differential Equations
- Probability and Statistics at the upper-division level
- Statistical Methods I and II

Those students seeking to enter the work force after receipt of their bachelor's degree, or a more general curriculum, should take 3 of the following:

- ECO 4223 Monetary Economics
- ECP 3403 Economics of Industrial Organization
- ECP 3530 Health Economics and Policy
- ECP 3613 Urban Economics
- ECP 3703 Managerial Economics
- ECP 4413 Government and Business

Students expecting to work in the field of planning should take at least one of the following:

- GIS 3043 Introduction to Geographic Information Systems
- GIS 4048 Intermediate Geographic Information Systems

Economics Curriculum - BBA


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## Department of Economics \& Geography Faculty

Phone: (904) 620-2640
Web Address: http://www.unf.edu/coggin/economics
Christopher K. Johnson, Associate Professor of Economics \& Chair
Andrés Alberto Gallo, Professor of Economics
Paul M. Mason, Richard deRaismes Kip Professor of Economics
Mina N. Baliamoune-Lutz, Professor of Economics
Harriet A. Stranahan, Professor of Economics
Sharon C. Cobb, Professor of Geography
Chung Ping Loh, Associate Professor of Economics
Lian An, Associate Professor of Economics
Christopher W. Baynard, Assistant Professor of Geography
Mary Beal-Hodges, Visiting Assistant Professor of Economics
Wayne C. Coleman, Instructor of Geography
W. Thomas Coppedge, Senior Instructor of Economics

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- A grade of "C" or better is required in all courses.
- Please see an advisor for an OFFICIAL program of study and your personalized My Osprey Map to stay on track for graduation.
- You must complete prerequisites before registering for any course. Refer to the Course Catalog for details.
- All Economics Majors are required to take an approved international educational experience. Examples of approved experiences include the following:
- Successful completion of an internship abroad.
- Successful participation in a Coggin-Sponsored study abroad program.
- Successful participation in a student exchange program abroad.
- Studying another language abroad. Economics majors must apply for a passport in 1st semester
Economic majors are encouraged to take advantage of internship opportunities
- There are opportunities for select students to do research with a professor for credit. A student's GPA must be 2.5 or better to take advantage of this opportunity.
- A student must have a UNF \& program GPA of 2.0 or better in order to graduate.


## Policy on Use of International Academic Experiences in Undergraduate Degree Evaluations

The Coggin College of Business supports and encourages undergraduate students to study abroad. In all cases, students must obtain approval regarding anticipated academic credit earned prior to departure.

The Coggin College of Business (http://www.unf.edu/coggin/abroad/) offers three types of programs:

* Faculty-led study abroad courses

Note: Coggin undergraduate students can only apply TWO upper-level, faculty-led study abroad courses towards their program of study. This excludes the 4-week summer and semester programs. Also, Coggin undergraduate students can only use ONE faculty-led study abroad towards their "major" requirements.

* 4 week summer programs (via exchange partners)
* Semester and academic year abroad (via exchange partners)

On a limited case by case basis, students may be approved (through the formal College petition

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process) to participate in non-Coggin College of Business study abroad programs, when demonstrating a unique need unable to be met through a Coggin College of Business study abroad program.


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# Department of Management 

Phone: (904) 620-2780
Web Address: www.unf.edu/coggin/management/

## Management Major

The management major is designed for students who envision embarking on a career that will lead them into organizational management. The theme of the Department of Management is value creation. As both a discipline and a process, the theoretical paradigms and frameworks upon which managers create value provide a strong foundation for our scholarly research and innovative instruction. The development of an organization's people, technology, and cross-functional processes, as well as their subsequent interaction, facilitate the internal environment necessary to create value. For effective value creation, these activities must be consistent with each other and with the organization's strategy. In addition, value-creating activities must transform over time to meet the changing demands of the external environment. Therefore, effective management requires an understanding of the dynamics of the internal environment, monitoring of the external environment, and the evolving process of strategic implementation. Thus, the management curriculum is to develop the student's proficiency in resource evaluation, resource allocation, and resource management. This mission theme recognizes all organizational inputs (i.e., human resources, financial resources, physical resources, and knowledge, informational and systems resources) as resources that must be managed for an organization to function effectively.


The curriculum is under constant review by the faculty to insure that its combination of business, technical, and behavioral courses remain relevant to the ever-changing business environment and global economy, and prepares the management major to meet the challenges they would likely face

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in either the private, public, or non-profit sectors. The student majoring in management is provided with program flexibility in tailoring their individual programs toward degree and career objectives. Each course within the management major has been designed to provide the student with specific and discrete content while also demonstrating the course's applicability to the overall mission theme.

Students who choose management as their area of concentration must satisfy all requirements for the BBA degree. As a part of the BBA degree program, these students must satisfy the management major requirement and a contextual studies requirement. The individual seeking to major in the Management discipline is required to take all courses required for the Management major, including the BBA core, in residence at the University of North Florida. Transfer credit may be accepted only on an exception basis through the petition process.


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## Department of Management Faculty

Phone: (904) 620-2780
Web Address: www.unf.edu/coggin/management/
Paul A. Fadil, Ph.D., Professor \& Chair - Department of Management
H. Eugene Baker III, Ph. D., Professor of Organizational Behavior,

Bruce Kavan, Ph.D., Professor of Information Systems Management, Bank of America Professor of Information Technology, Associate Dean
B. Jay Coleman, Ph.D., Professor of Operations Management \& Quantitative Methods, Richard Kip Professor of Operations Management \& Quantitative Methods
Bruce Fortado, Ph.D., Professor of Human Resource Management
Steven K. Paulson, Ph.D., Professor Emeritus \& Blanch and Luther Coggin Emeritus Professor of Management
Cheryl A. Van Deusen, Ph.D., Professor of Management
Steven A. Williamson, DBA., Professor \& Director, The Paper and Plastics Education and Research (PAPER) Institute
Craig G. Harms, Ph.D., Associate Professor of Operations Management \& Quantitative Methods
Dag Näslund, Ph.D., Professor of Operations Management \& Quantitative Methods
Crystal L. Owen, Ph.D., Associate Professor of Management
Robert W. Schupp, JD., Associate Professor of Business Law
Lakshmi Goel, Ph.D., Associate Professor of Information Systems Management
Saurabh Gupta, Ph.D., Associate Professor of Information Systems Management
Dong-Young Kim, Ph.D., Assistant Professor of Operations Management \& Quantitative Methods
Rahul W. Kale, Ph.D., Associate Professor of Operations Management \& Quantitative Methods
Ping Ying Zhang, Ph.D., Assistant Professor of Management
Fred Pragasam, M.B.A., Senior Instructor of Management
Marjory Templeton, M.B.A., Senior Instructor of Information Systems Management
Koren Borges, M.B.A., Instructor of Management
Diane Denslow, M.B.A., Instructor of Management
Carol Spector, M.B.A., Instructor of Management
Gerry Blackwood, M.B.A., Instructor of Management

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## Undergraduate

- A grade of " C " or better is required in all classes.
- Please see an advisor for an OFFICIAL Degree Evaluation and your personalized My Osprey Map to stay on track for graduation.
- You must complete prerequisites before registering for any course. Refer to the Course Catalog for details.
- MAN4720 is taken in a student's last semester. An institutional and a program GPA of 2.0 or better is required before permission to register for this course. FIN3403, MAN3025, \& MAR3023 must be completed prior to taking MAN4720.
- This program is subject to a student fully admitted into the Coggin College of Business.
- Students are encouraged to take advantage of internship and study abroad opportunities for credit. See an advisor for details.
- There are opportunities for select students to do research with a professor for credit. A student's GPA must be 2.5 or better to take advantage of this opportunity.
- A student must have a UNF \& program GPA of 2.0 or better in order to graduate.


## Graduate (MBA)

- A grade of " B " or better is expected in all courses.
- Your OFFICIAL Degree Evaluation can be found in your myWings account.
- You must complete prerequisites before registering for any course. Refer to the Course Catalog for details.
- MAN6726 is taken in a student's final semester. An institutional graduate level and program GPA of 3.0 or better is required before permission to register for this course.
- This program is subject to a student fully admitted into the Coggin College of Business in one of the graduate programs.
- Graduate students are permitted the opportunity to study abroad. Different types of opportunities are available.
- Internships for credit are not permitted in the MBA program.
- There are opportunities for select students to do research with a professor for credit. A student's GPA must be 3.5 or better to take advantage of this opportunity
- A student must have a UNF \& program GPA of 3.0 or better in order to graduate.

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# Department of Marketing \& Logistics 

Phone: (904) 620-2780
Web Address: http://www.unf.edu/coggin/marketing/

## Transportation \& Logistics Major (Flagship Program)

The University of North Florida's Transportation and Logistics Program offers a unique and rewarding program for students electing to major in transportation and logistics. The program prepares students for challenging careers in supply chain management, international logistics, transportation, and physical distribution. Many graduates of the Program have accepted positions with local logistics firms as well as with major corporations located across the country. The Program has received considerable state, national, and international recognition. The University of North Florida has designated the program as one of only six Flagship programs so identified on campus. The program is nationally ranked in its field in the USA, placing it among top-tier research universities nationally, and is one of the few non-doctoral-granting institutions in the field. Recent research placed the program in the top 25 in terms of thought leadership in the discipline, as measured by the last 40 years of publications in that journal. Program graduates are automatically certified (upon application, by blanket waiver) by the American Society of Transportation \& Logistics - a recognition of curriculum quality granted to only 25 programs nationwide. The Florida Board of Regents selected the UNF Transportation and Logistics Program as one of the initial five programs to receive the Florida Legislature's "Programs of Distinction" emphasis within the State University System. The Board of Regents further recognized the Program by designating it as one of the university system's "Centers for Excellence." These distinctions provide many opportunities for the Transportation and Logistics Program to develop innovative approaches for transportation and logistics education and community service.

The program has outstanding fit to the regional economy. As a growing leader in logistics and international commerce, the Jacksonville area represents a tremendous opportunity for gaining logistics experience. Jacksonville has become a major distribution hub with extensive access to rail, air, maritime and highway transportation as well as to warehousing and international logistics. The city has been recognized as one of the top 10 logistics-friendly U.S. cities, and transportation and logistics has been identified as one of city's four economic "super sectors." More than 650 firms in the region have some significant involvement in freight movement. Program faculty have built outstanding connections to regional T\&L leaders CSX, CEVA (formerly TNT) Logistics, Landstar, Crowley, Sea Star Line, and Southeast Toyota Distributors (all of whom are headquartered here), as well as leading firms who require Transportation \& Logistics expertise, including GE, Target, Walgreens, Sears, and PSS World Medical. Internships with local companies provide opportunities for students to gain hands-on management experience while also applying their education in a realworld setting.

All students seeking a BBA degree with a major in Transportation and Logistics must meet all of the requirements for that degree, including the prerequisites and the 21 credit hours common to all

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majors. The Transportation and Logistics major also offers significant flexibility for students to double major in other business programsin order to obtain a competitive advantage in the job market due to the high demand for logistics graduates.

Transportation and Logistics Curriculum

## Marketing Major

The marketing major is intended for students who seek learning opportunities about marketing functions, institutions, and marketing management practices in consumer and organizational business, industrial and governmental foundations and functioning of marketing and marketing management and to develop their understanding, appreciation and proficiency in marketing decision making within firms and across society. The curriculum furnishes students with content knowledge and its applications in the principles of marketing, consumer behavior, marketing research and information systems, strategic marketing management, international marketing and additional elective areas of marketing as well as more general knowledge and skills relevant to business and a business career. The major also includes behavioral, technical, and elective courses in order to prepare the student for a marketing management career. Flexibility is allowed so that students have some discretion in orienting their program toward career and degree objectives. Students are encouraged to work closely with their advisors in selecting major and contextual courses, which are appropriate to their objectives.

Students who choose marketing as their area of concentration must satisfy all requirements for the BBA degree. As a part of these requirements, marketing students must satisfy the marketing concentration requirement and a contextual studies requirement. A maximum of 18 credit hours of marketing, excluding marketing courses required of all BBA candidates, will be counted toward satisfying degree requirements.

Students with an interest in a sales career should select MAR 4403 Sales Management, MAR 4400 Professional Selling and MAR 4946 Professional Sales Internship as marketing major electives.

Marketing Curriculum


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## Department of Marketing \& Logistics Faculty

Phone: (904) 620-2780
Web Address: http://www.unf.edu/coggin/marketing/
Robert Frankel, Ph.D., Professor \& Chairholder (Kip Professor of Marketing and Logistics)
Adel I. El-Ansary, Ph.D., Professor \& Chairholder (Donna L. Harper Professor of Marketing)
Gregory T. Gundlach, Ph.D., Professor \& Coggin Distinguished Professor of Marketing
Ronald J. Adams, Ph.D., Professor Emeritus of Marketing
A. Coskun Samli, Ph.D., Research Professor of Marketing

Dawn M. Russell, Ph.D., Assistant Professor of Transportation and Logistics
Youngtae Choi, Ph.D., Associate Professor of Marketing
Reham A. Eltantawy, Ph.D., Associate Professor of Marketing
Rodger David Swanson, Ph.D., Assistant Professor of Transportation \& Logistics
Lynn Brown, Associate Director, Transportation and Logistics Flagship

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- A grade of "C" or better is required in all courses.
- Please see an advisor for an OFFICIAL program of study and your personalized My Osprey Map to stay on track for graduation.
- You must complete prerequisites before registering for any course. Refer to the Course Catalog for details.
- Marketing \& Logistics majors are encouraged to take advantage of internship and study abroad opportunities for credit. See academic advisor for details.
- There are opportunities for select students to do research with a professor for credit. A student's GPA must be 2.5 or better to take advantage of this opportunity.
- A student must have a UNF \& program GPA of 2.0 or better in order to graduate.

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# International Business Flagship Program 

Phone: (904) 620-2916
Web Address: www.unf.edu/coggin/int_business
Jeffrey Michelman, Professor, Director of IB Flagship Program
Kate Mattingly Learch, Associate Director of IB Flagship Program
Caitlin Jaeger, Study Abroad Advisor
Katrina Mochorro, Study Abroad Advisor

## International Business Major

The international business major has been designated part of the International Business Flagship program by UNF's president. The international business major is designed for students who are excited about the increasing globalization of the business world. Students who major in international business will be prepared not only for doing business domestically, but also for engaging in the dynamic world of global business which includes marketing, logistics, import/export and international finance. A selected group of students will be able to participate in the double degree program wtih Euromed Management in Marseilles, France. This unique opportunity will allow students the chance to spend two years in the south of France including a six month internship. Students selected for this program must have a demonstrated interest in French language, history and culture.

All Coggin College of Business students receive a solid foundation in all functional areas in business, including economics, finance, law, management, and marketing. In addition, all students develop both quantitative skills and communications skills. However, UNF international business majors distinguish themselves from other business majors in five ways.

- First, they learn about international aspects of functional business areas, including economics, finance, management and marketing.
- Second, they become proficient in a foreign language at the intermediate level or above.
- Third, they learn about a particular area of the world.
- Fourth, all international business students complete a one-semester internship with an organization actively involved in international business. This training provides international business majors with practical experience that will make them more marketable upon graduation.
- Fifth, all international business majors are required to complete an experience abroad which may include a ten day trip with a faculty member in a course, a semester abroad or an internship abroad.

International business majors must satisfy all requirements for the BBA degree.

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## International Business Flagship Program Faculty

Phone: (904) 620-2916
Web Address: www.unf.edu/coggin/int_business
Jeffrey Michelman, Professor, Director of IB Flagship Program
Kate Mattingly Learch, Associate Director of IB Flagship Program
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## International Business Program Policies

- Grade of " C " or better is required in all classes.
- Please see an advisor for an OFFICIAL program of study and your personalized My Osprey Map to stay on track for graduation.
- You must complete prerequisites before registering for any course. Refer to the Course Catalog for details.
- International Business Majors are required to take an approved internship, foreign language proficiency, and an approved international experience.
- All International Business Majors are required to take an approved international educational experience. Examples of approved experiences include the following:
- Successful completion of an internship abroad.
- Successful participation in an approved study abroad program of at least 4 weeks in duration

Note: IB majors must apply for a passport in 1st semester.

- There are opportunities for select students to do research with a professor for credit. A student's GPA must be 2.5 or better to take advantage of this opportunity.
- A student must have a UNF \& program GPA of 2.0 or better in order to graduate.


## Policy on Use of International Academic Experiences in Undergraduate Degree Evaluations

The Coggin College of Business supports and encourages undergraduate students to study abroad. In all cases, students must obtain approval regarding anticipated academic credit earned prior to departure. International Business majors planning to fulfill the international experience requirement by studying abroad must participate in a program whose overseas component is a minimum of 4 weeks.

The Coggin College of Business (http://www.unf.edu/coggin/abroad/) offers three types of programs:

* Faculty-led study abroad courses

Note: Coggin undergraduate students can only apply TWO upper-level, faculty-led study abroad courses towards their program of study. This excludes the 4-week summer and semester programs. Also, Coggin undergraduate students can only use ONE faculty-led study abroad towards their "major" requirements.

* 4 week summer programs (via exchange partners)
* Semester and academic year abroad (via exchange partners)

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On a limited case by case basis, students may be approved (through the formal College petition process) to participate in non-Coggin College of Business study abroad programs, when demonstrating a unique need unable to be met through a Coggin College of Business study abroad program.


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## College of Arts and Sciences Overview

Location: Building 51, Room 3301
Phone: (904) 620-2560
Web Address: www.unf.edu/coas/

## Dean's Office

Barbara Hetrick, Dean
David Fenner, Associate Dean
Sam Kimball, Associate Dean
Beth Clements, Assistant to the Dean
Allison Turner, Coordinator of Academic Services
Karla Calliste-Edgar, Administrative Assistant
Chellie Jones-Harris, Office Manager
Leigh Palmer, Director of Development

## Mission

The mission of the College of Arts and Sciences is:

- to provide learning opportunities of the highest quality to our students, both undergraduate and graduate, to develop their capabilities as critical and reflective thinkers, and to offer each occasions for transformative learning;
- to promote faculty engagement in pursuit and production of disciplinary significant and high quality scholarship - discovered and applied, global and local;
- to offer undergraduate and graduate programs that contribute to the successful achievement of our students' ambitions, are responsive to and engaged with the communities of which the university is a part, and continue the tradition of an excellent liberal arts education;
- to dedicate the college's full range of resources to these goals.


## Undergraduate Programs

The College of Arts and Sciences is the bedrock of the University of North Florida just as the liberal arts curriculum is at the very center of the University's mission. What students acquire through their engagement with the liberal arts is a sense of their place within the universe, whether that universe is defined in physical, social, moral, or aesthetic terms. It is for this reason that general education, provided largely by the College of Arts and Sciences, remains to this day the foundation for all further University study; and it is why premier graduate and professional schools continue to give admissions preference to students who choose to major in one of the liberal arts even if they intend to pursue advanced study in a technical or professional field.

The curriculum of the College of Arts and Science is rich and deep. In the complex world of the 21st

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century, a grounding in the liberal arts is more urgent than ever as we encounter at an ever faster pace challenges to our experience and understanding that we could not have anticipated a short while ago.

## Graduate Programs

The College of Arts and Sciences has eight graduate programs among its educational offerings. Masters degrees are offered in Biology, Criminal Justice, English, History, Mathematics/Statistics, Public Administration, Philosophy, and Psychology (two degrees are offered in Biology). Given the mission of the University, many of these degrees are focused on the applied and practical; they are constructed to serve graduate students who seek to attain the advanced education necessary for securing high-quality employment or advancement. Many of our graduates occupy positions of leadership within the City of Jacksonville, regional industry, and UNF itself. Students seeking master's degrees at UNF have also been very successful when they subsequently choose to pursue doctoral programs at other institutions. The College of Arts and Sciences has some of the most venerable and well established graduate programs in the University, and we take great pride in helping our graduate students meet their personal and professional aspirations.


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# Department of Art and Design 

Location: Building 45, Room 2022 in the Fine Arts Center<br>Phone: (904) 620-4037.<br>Web Address: http://www.unf.edu/coas/art-design

Chair: Debra Murphy, Ph.D.

## Mission

The mission of the Department of Art and Design is to provide outstanding undergraduate teaching in the disciplines of studio arts (including painting, drawing \& printmaking, ceramics and sculpture), photography, graphic design \& digital media and art history, and to instill creative, analytical, applied and theoretical skills while providing opportunities for transformational experiences such as internships, directed research and study tours and programs abroad.

## The Program

The Department of Art and Design offers courses of study leading to career preparation in fine arts, graphic design \& digital media, and art history as practitioners, teachers, artists or consultants; provides service courses in art and art history to other disciplines in the University; and fosters individual professional growth and cultural enhancement by promoting artistic production and scholarly research on the part of the faculty and students. The department seeks to enrich the cultural atmosphere and intellectual awareness of the University and Northeast Florida through art exhibitions, lectures, seminars, workshops and study abroad opportunities.

The comprehensive, multifaceted art curriculum is designed to produce an artistically sophisticated graduate with realistic expectations to compete in the job market or pursue graduate study. Program concentrations are in, painting, drawing and printmaking, ceramics, sculpture, and graphic design \& digital media. All studio and design concentrations emphasize a hands-on approach and feature opportunities for exhibition and presentation. Access to the greater Jacksonville area lends additional professional appeal because of its vibrant arts community, numerous exhibition venues and art museums. The Department works closely with MOCA Jacksonville, a cultural resource of UNF, and the Cummer Museum of Art and Gardens. UNF faculty members are involved in curating exhibitions at the museums, presenting lectures and serving on museum committees.

## Majors and Minors

The department offers the Bachelor of Fine Arts with concentrations in painting/drawing/printmaking, ceramics, sculpture, photography and graphic design and digital media. A Bachelor of Arts in Art History is also offered. Minors are offered in Fine Arts, photography and art history.

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## Study Abroad

The department sponsors an annual study abroad program in Italy where students can study and experience first hand some of the most important works from western civilization. Art History and studio courses are offered. Students visit both smaller towns and large urban centers such as Florence and Naples while the majority of the program is anchored in Rome. Other study abroad programs are offered on a rotating basis such as graphic design and digital media programs in Brazil and Ireland.

There are several competitive scholarships available for majors in the department to help support study abroad opportunities.

## Opportunities for Student Exhibitions and Internships

There are two student exhibitions a year, the Juried Student show and the Senior Show, both are at the University Gallery in Building 2 on the UNF campus.

Students interested in Museum Studies and gallery work may be interested in internships at the Cummer Museum of Art and Gardens and MOCA Jacksonville. In addition, classes in the Gallery in Contemporary Society are offered.

Internships are also available in graphic design firms and corporations, photography studios, various galleries, the Cultural Council of Greater Jacksonville and area hospitals that coordinate art therapy programs.

## Student Organizations

There are a number of student organizations in the department including the Sculptors' Guild, the Pottery Guild, the Photo Club and The Osprey Design Club. The various clubs mount an annual Art Festival with music, door prizes and outstanding art for sale

## The Faculty

The faculty of the Department of Art and Design is composed of award winning professors and artists who have established national and international reputations. The Faculty holds membership in a variety of professional organizations including the College Art Association, the Southeastern College Art Association, Southern Graphics International, AIGA, and the Society for Photographic Education, among others.

## The Barbara Ritzman Devereux Artist Workshop

Through generous support from the family of the late Barbara Ritzman Devereux, an artist on national stature is invited to campus to work with students, exhibit and lecture.


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## Department of Art \& Design Faculty

## Debra L. Murphy, Associate Professor \& Chair

Emily W. Arthur, Associate Professor
David J. Begley, Associate Professor
Louise F. Brown, Professor
Peter S. Brown, Associate Professor
Blake Coglianese, Associate Professor
Vanessa B. Cruz, Associate Professor
Alexander Diaz, Assistant Professor

Nofa F. Dixon, Associate Professor
Trevor T. Dunn, Assistant Professor
Raymond W. Gaddy, Instructor
Jennifer Hager, Associate Professor
Elizabeth B. Heuer, Assistant Professor
Stephen E. Heywood, Associate Professor
John A. Hutcheson, Instructor
Jason C. John, Assistant Professor
Paul C. Karabinis, Associate Professor
Kyle R. Keith, Instructor
Elizabeth B. Nabi, Assistant Professor
Claudia Scaff, Associate Professor
Christopher W. Trice, Assistant Professor

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# Department of Biology 

Location: Building 59, Room 1300
Phone: (904) 620-2830
Web Address: http://www.unf.edu/coas/biology/

## Dr. Daniel Moon, Chair

## Mission

The guiding principle of the Department of Biology is the search for understanding and knowledge through the scientific study of life and the dissemination of this information to students, the scientific community, and the general public. The Department of Biology faculty members teach and conduct research in diverse fields of biology. The strength of the department lies in its broad based academic program, collaborative efforts of faculty, and its integration of undergraduates in all aspects of research. The Department of Biology educates the general student body of UNF in biological principles and seeks to develop an understanding of science, applied writing, mathematics, analytical reasoning and critical thinking skills in the context of biology. We seek to provide individualized attention at both the undergraduate and graduate levels to students interested in careers related to biological science. The department believes that the active involvement in scholarly pursuits of graduate and undergraduate students is the ultimate expression of teaching and learning.

## Program Overview

The Biology department is home to over 500 undergraduate majors and more than 50 graduate students. There are six concentrations within the Bachelor of Science degree that allow undergraduate students to customize their degree for their career aspirations. Graduate students can choose either a Master of Science or a Master of Arts degree, both of which have two tracks that allow student to gain experience in an array of sub-disciplines. For all of our students, individual attention and opportunities to conduct research with our faculty are hallmarks of their degree. Biology faculty members are involved in research concerning aquatic and terrestrial ecology, cell and molecular biology, physiology, and microbial studies and have obtained grants from agencies such as the National Institutes of Health, the National Science Foundation, and the US Department of Agriculture. Our new $\$ 40$ million Biological Sciences building provides state-of-the-art teaching and research facilities including features such as a fully automated greenhouse, a sea water 'on tap' system, and a marine mammal necropsy lab to name a few. Our department is also home to the Coastal Biology Flagship program, a vibrant Biomedical Sciences program, and a new Medical Laboratory Sciences program developed in collaboration with area health care facilities.

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The department offers two graduate degrees, a Master of Arts and a Master of Science in Biology. The Master of Arts (M.A.) in Biology degree program is designed primarily to provide secondary school teachers and professionals in environmental fields with advanced training in the biological sciences through extensive coursework. The Master of Science (M.S.) biology degree program is designed to provide graduate students with advanced knowledge, skills and techniques in the biological sciences through coursework and an independent thesis research project.

## Undergraduate Major Degree Program

The Department of Biology offers a Bachelor of Science degree with six areas of concentration: Biomedical Sciences, Molecular Cell Biology and Biotechnology, Medical Laboratory Sciences, Coastal Biology, Coastal Environmental Science, and Ecology and Evolutionary Biology. The Bachelor of Science in Biology is a Selective Admissions degree program. Students must meet certain criteria and then apply. To be accepted, students must have taken General Biology I and II (or equivalents) and General Chemistry I and II (or equivalents) with minimum grades of two B's and two C's in those four courses.

## Undergraduate Minor Degree Programs

Undergraduate students majoring in another field can choose a minor in Biology or Environmental Science.


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## Department of Biology Faculty

Daniel C. Moon, Professor \& Chair

Gregory A. Ahearn, Professor
Kristine C. Amatuli, Lecturer
Andrew A. Beall, Senior Lecturer
Doria F. Bowers, Professor
Joseph A. Butler, Professor
Dale A. Casamatta, Professor
Kristen A. Ciano, Lecturer
Sara L. Colosimo, Lecturer
Charles B. Coughlin, Senior Lecturer
Terri N. Ellis, Assistant Professor
James J. Gelsleichter, Assistant Professor
Quincy A. Gibson, Assistant Professor
Matthew R. Gilg, Associate Professor
Courtney T. Hackney, Professor
John D. Hatle, Professor
Barbara Hetrick, Professor \& Dean
Eric G. Johnson, Assistant Professor
Michael R. Lentz, Associate Professor
Jamie C. Moon, Lecturer
Judith D. Ochrietor, Associate Professor
Julie P. Richmond, Assistant Professor

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## Cliff Ross, Associate Professor

Anthony M. Rossi, Professor
Kelly J. Smith, Associate Professor
Elaine C. Staley, Instructor
Janice E. Swenson, Senior Lecturer
David S. Waddell, Assistant Professor

David P. Webb, Lecturer
Justina M. Wilcox, Senior Lecturer


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## Department of Chemistry

Location: Building 50, Room 3500
Phone: (904) 620-3503
Facsimile: (904) 620-3535
Web Address: http://www.unf.edu/coas/chemistry

## Dr. Radha Pyati, Chair

## Mission

The mission of the Department of Chemistry is to provide excellent educational experiences in the classroom and in the laboratory at all levels and in all sub-disciplines of chemistry, with the goal to foster in our students a solid background in the foundational aspects, an understanding of the scientific methods of inquiry, and an appreciation of the significance and relevance of chemistry in daily life. We strive to offer programs of relevance that instill in our students the principles, motivation, comprehension, and the vision to prepare them for graduate school, medical school, or for careers in the chemical industry, or in teaching. Toward these ends, the department has focused its resources in developing undergraduate curricula that inspire our students to gain a firm and operative understanding of the fundamental theories and principles in chemistry and biochemistry. It also provides opportunities for faculty members to mentor undergraduates in original research in order to enhance their theoretical, experimental, and creative abilities through hands-on laboratory experiences. Other transformational learning experiences such as internships, attending and presenting at regional and national meetings and workshops are supported and encouraged. In designing our lecture and laboratory courses we strive to engage our students and to help them develop skills in critical thinking, problem solving, and teamwork.

## Degrees Offered

## Undergraduate degrees:

The Department of Chemistry offers a Bachelor of Science degree in Chemistry only. New BS Chemistry tracks in Pre-Medical Professions and in Materials Chemistry were added to the curricula as additional areas of concentration for Chemistry majors.

In conjunction with the College of Education and Human Services, B.A.E. and M.A.E. degrees with majors in chemistry, general sciences are also available.

## Graduate degrees:

Advanced degrees such as a Masters in Science degree in Chemistry or a Doctor of Philosophy in Chemistry are not offered at present. A Masters program is under development for implementation in a future year.

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## Accreditation

The Department of Chemistry offers a Bachelor of Science degree in Chemistry that is certified by the American Chemical Society.

## The Program

Chemistry is a central science that deals with the study of the properties and behavior of matter. Knowledge of chemistry has always been fundamental to the investigation of the physical world. It serves as a bridge between biological sciences, physics and mathematics.

In recent years, the traditional specialties of Analytical, Organic, Inorganic, Physical, and Biochemistry have become increasingly interconnected, creating new and exciting interdisciplinary concentrations in areas like bio-organic, bio-inorganic, bio-analytical, bio-physical, and materials chemistry. The ever-increasing use of complex technologies and processes employed in modern medicine, agriculture, defense, manufacturing, and other industries is a clear indication that the demand for individuals with a chemistry background will continue to increase in the future. An array of analytical and spectroscopic instrumentation is available for laboratory instruction and research. Students in the chemistry program are encouraged to gain research experience by working in the laboratory of a faculty member of their choice. Diverse projects in synthetic and mechanistic organic chemistry, natural products, bioorganic chemistry, materials and solid state inorganic chemistry, environmental and analytical chemistry, and computational physical chemistry are currently available for undergraduate research. By a judicious choice of courses, students in research programs can obtain credit toward graduation. Qualified students engaging in undergraduate research during the summer and/or academic year could receive financial support from their faculty research advisor or via competitive university fellowship awards or other scholarships. Several tuition scholarships are also available on a competitive basis.


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## Department of Chemistry Faculty

## Kenneth K. Laali, Professor \& Chair

Melissa P. Bush, Senior Lecturer
Corey P. Causey, Assistant Professor
Ujjwal Chakraborty, Visiting Lecturer
Stuart J. Chalk, Associate Professor
Shoumen Datta, Visiting Assistant Professor
Matthew P. Davies, Lecturer
Abdul H. Fauq, Visiting Lecturer
Jose A. Jimenez, Assistant Professor
Bryan A. Knuckley, Assistant Professor
Christos Lampropoulos, Assistant Professor
Amy L. Lane, Assistant Professor
Michael W. Lufaso, Associate Professor
Thomas J. Mullen, Assistant Professor
David A. Nyquist, Senior Lecturer
Radha Pyati, Associate Professor
Robert V. Stern, Senior Lecturer
Frederick J. Troendle, Lecturer

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## Department of Communication

Location: Building 14D, Room 2002
Phone: (904) 620-2651
Web Address: http://www.unf.edu/coas/communication/
Dr. John H. Parmelee, Chair
Chair's e-mail: jparmele@unf.edu

## Mission

The undergraduate Bachelor of Science in Communication major is primarily concerned with professional applications of communication in traditional and emerging media, strategic communication (advertising and public relations), and organizations. Within this context the mission of the Department of Communication is to discover, integrate, and disseminate applied and theoretical knowledge about human and mediated communication processes and effects as they relate to individuals, groups, and society.

We are committed to high quality teaching that prepares students for lifelong learning and professional careers in communication; scholarship that advances knowledge of communication and enhances the reputation of the university, and service to the university, academic and professional communities, and to northeast Florida. To achieve our mission, students engage in learning activities inside and outside the classroom, such as participating in media internships and community-based learning, producing news programs, and creating advertising and public relations campaigns for clients.

Our graduates will be prepared to:

1. Communicate effectively: Communicate clearly and accurately through written, oral, and mediated forms appropriate to the study of communication and professional practice.
2. Think critically: Conduct reasoned evaluation of information to assess its relevance, accuracy, purpose, and meaning.
3. Apply theory: Apply appropriate theoretical concepts of communication in academic and professionally oriented work.
4. Conduct valid research: Apply research methods appropriate to the communication professions to address relevant communication problems. Such methods include quantitative and qualitative research applied in primary and secondary research.
5. Utilize appropriate technologies: Apply the tools and technologies of the communication professions in the creation and dissemination of messages appropriate for professional practice.
6. Value freedom of expression: Understand and apply the principles and laws of freedom of speech and press embodied in the First Amendment and describe their importance in a

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democracy.
7. Embrace diversity: Demonstrate an understanding of the diversity of both domestic society and the peoples and cultures of global society and of the significance and impact of mass communications in society.
8. Practice ethically: Demonstrate an understanding of professional ethical principles and the relationship between ethics and law; apply ethical principles to communication professional practice.
9. Regard history: Demonstrate understanding of the history of communication media and professions and the role of key communication professionals and institutions in shaping them.

## Undergraduate Major Degree Programs

The Department of Communication offers the Bachelor of Science degree in Communication. Our majors select one of three professionally oriented concentrations:

- Advertising
- Multimedia Journalism \& Production
- Public Relations


## Undergraduate Minor Degree Programs

In addition to the Communication major the department offers two minor programs:

- Communication Studies
- Mass Communication


## Transformational Learning

UNF Communication students engage in community-based learning in all of our concentrations. Multimedia Journalism \& Production students research and write the annual Hope Fund series of stories in the Florida Times-Union and contribute several types of content to the newspaper's Jacksonville.com web site. Also, Multimedia Journalism \& Production students produce "Inside Jacksonville," a news show, and other TV programming. Every semester Advertising and Public Relations students create fully planned campaigns for First Coast area non-profit organizations. In addition, during every term nearly 100 Communication majors complete professional internships.


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## Department of Communication Faculty

John H. Parmelee, Professor \& Chair

## Christa L. Arnold, Assistant Professor

Berrin A. Beasley, Associate Professor
Robert H. Bohle, Professor
Peter A. Casella, Assistant Professor
Dee A. Colvin-Ott, Instructor
David J. Deeley, Assistant Professor
Roberta R. Doggett, Senior Instructor
David H. Goff, Professor
Joseph A. Goodsell, Instructor
Christine K. Holland, Senior instructor
Paula S. Horvath-Neimeyer, Senior Instructor
Marcia J. Ladendorff, Instructor
Chunsik Lee, Assistant Professor
Samuel C. Mathies, Instructor
Traci M. Mathies, Instructor
Diane L. Matuschka, Instructor
Carolynn A. McMahan, Associate Professor
Siho Nam, Associate Professor
Jae H. Park, Assistant Professor
Stephynie C. Perkins, Associate Professor
Allison A. Searle, Instructor

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# Department of Criminology and Criminal J ustice 

Location: Building 51, Room 2310
Phone: (904) 620-1724
Web Address: http://www.unf.edu/coas/ccj/
Dr. David R. Forde, Chair

## Mission

The Department of Criminology \& Criminal Justice offers a variety of programs in the social sciences. The Department offers a Bachelor of Arts degree in Criminal Justice and offers a minor in Criminal Justice as well. The Department also offers a Master of Science degree program in Criminal Justice.

The Department of Criminology \& Criminal Justice seeks to provide its students with the theoretical, practical and ethical foundations for understanding crime and the criminal justice system in its social context. The faculty is committed to excellence through the development of focused and relevant scholarship. Through excellence in research and teaching in the areas of law creation, crime, deviance and societal responses to law violation, students develop a greater understanding of the challenges of social control and its dynamic processes. Participation in research and internships assures relevance to current practice and further prepares students to apply their knowledge in the field, to conduct critical analyses, and to undertake policy development and implementation. Students at the graduate level receive advanced instruction in research methods and theory, helping students develop professional skills for direct employment or more advanced study. Rigorous commitment to peer-review and collegiality help assure that an ethic of continuous-improvement and self-reflection govern all departmental processes.

## Criminology \& Criminal Justice Major

The undergraduate degree program in Criminology \& Criminal Justice is broad-based in nature, stressing the interrelationships between the various components of the criminal justice system police, courts, corrections - and familiarizing students with each of these components and their theoretical bases. The program also recognizes and builds upon the interdisciplinary nature of the field it seeks to address. Criminal justice draws together all the social and behavioral sciences, the natural sciences, the mathematical and computer sciences, and law and jurisprudence to focus on the problem of crime in society. Indeed, accreditation guidelines for post-secondary criminal justice education programs clearly specify that the curricula "must give explicit recognition to the multidisciplinary character of the field." The UNF program is designed to comply with that standard.

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Criminal Justice), and CCJ 2002 (Crime in America) is recommended as a preparatory course for the major.

## Graduate Program

Criminology \& Criminal Justice education is one of the most rapidly growing fields in higher education today. Public concerns about crime, and the dramatic expansion of the criminal justice system in recent decades, have spurred a proliferation of courses in this field in colleges across the country. Jobs that did not exist two decades ago - such as victim advocates or police computer mapping specialists - continue to develop. There is a growing demand for persons with graduate level education in all sectors of the system. The Master of Science in Criminal Justice at UNF provides an opportunity for advanced academic work in this expanding field of study.

As a interdisciplinary field, Criminology \& Criminal Justice draws together all the social and behavioral sciences, natural sciences, mathematical and computer sciences, history, law and jurisprudence to focus on the problem of crime in society. The MSCJ program at UNF is vitally concerned with the interrelationship between theory, practice and research. The program emphasizes the acquisition of professional skills that will enable students to keep abreast of new research and developments in the field long after they have completed their formal studies.


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## Department of Criminology \& Criminal J ustice Faculty

David R. Forde, Professor \& Chair

Lisa V. Bates-Lester, Instructor
Catherine J. Chadeayne, Instructor
Ellen Glasser, Visiting Instructor
Michael Hallett, Professor
Daniel P. Pontzer, Assistant Professor
Alicia H. Sitren, Assistant Professor
Brenda A. Vose, Assistant Professor
Jennifer K. Wesely, Associate Professor

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## Department of English

Location: Building 8, Room 2601
Phone: (904) 620-2273
Web Address: http://www.unf.edu/coas/english

## Dr. Brian J. Striar, Chair

## Mission

The Department's mission is grounded in the conviction that a knowledge of literature and language and a mastery of interpretive skills are absolutely integral to a liberal education. Based on that conviction, and consonant with the goals and mission of the University of North Florida and the College of Arts and Sciences, the Department of English strives to offer instruction of the highest quality in all areas of the curriculum within its purview. The Department's goal is to make a significant and indeed life-long contribution to the intellectual growth of each of its students. Further, the Department offers students the opportunity to acquire specific professional skills and to become generally proficient in the use and analysis of language. Such training is solid preparation for virtually any profession that involves communication.

## Undergraduate Program

The Department of English at the University of North Florida offers courses in American, British, and world literature, creative writing, and professional writing. The department offers the B.A. in English with the option of a track in drama. The department also offers seven minors: American Literature, British Literary Studies, Creative Writing, Drama, Film Studies, Literature, and Writing Studies. In addition, the department is responsible for supervising students who elect to major or minor in Interdisciplinary Studies.

## Graduate Program

The Department of English offers a Master of Arts (M.A.) in English in addition to a certificate in Rhetoric and Composition. Graduate students can enjoy reading from a range of British, American, and world traditions, honing their critical reading and writing skills, and enjoying the pleasures of sophisticated literary discussion. In addition, students can take courses that ground them philosophically and pedagogically in the history of rhetoric, a sure way to deepen one's understanding of the practice of writing. Finally, students can enroll in graduate teaching practicums, gaining experience by teaching others under the tutelage of an experienced professor. The M.A. in English offers a number of routes for preparing students for a diverse number of career fields. The program entails eleven courses ( 33 credit hours).

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## Department of English Faculty

Brian J. Striar, Associate Professor \& Chair

Mark Ari, Senior Instructor
Mary K. Baron, Professor
James P. Beasley, Assistant Professor
Jeanette M. Berger, Senior Instructor
Stephan A. Boka, Instructor
Keith A. Cartwright, Professor
Laura J. Caton-David, Instructor
John M. Chapman, Instructor
Fredrick F. Dale, Senior Instructor
Nicholas A. de Villiers, Associate Professor
Timothy J. Donovan, Associate Professor
Joseph W. Flowers, Instructor
Dwight C. Gabbard, Associate Professor
Laura Heffernan, Assistant Professor
Pamela S. Hnyla, Senior Instructor
Linda A. Howell, Senior Instructor
Marnie C. Jones, Professor
Arthur S. Kimball, Professor \& Associate Dean
Shane W. Leverette, Associate Professor
Clark D. Lunberry, Associate Professor
David A. Mackinnon, Instructor

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## Brenda L. Maxey-Billings, Instructor

Alexander Menocal, Instructor
Pamela A. Monteleone, Associate Professor
Betsy L. Nies, Associate Professor
Marcus R. Pactor, Instructor
Jillian L. Smith, Associate Professor
Russell D. Turney, Senior Instructor
Amy R. Wainwright, Senior Instructor
Bart H. Welling, Associate Professor
Michael G. Wiley, Professor


## Table of Contents

# Department of History 

Location: Building 9, Room 2501
Phone: (904) 620-2273
Web Address: http://www.unf.edu/coas/history

## Mission

Our mission is to graduate a liberally educated person who can view the world with a historical perspective, appreciate the traditions of various cultures, understand the role of change and continuity, and have interests encompassing humanities, social sciences, fine arts, and natural sciences. The history graduate should leave UNF with the ability to evaluate the world critically and with an understanding that education is a never-ending process.

## The Program

Our program emphasizes the study of and research in the field of History. The study of history involves an understanding and appreciation of our cultural heritage, whether ancient or modern, eastern or western, humanistic or technological. It seeks to appreciate the values of our global civilization in its many parts. The study of history stresses the importance of the historical perspective for understanding contemporary social, political, technological, and economic problems.

History depends upon the skills of communication. Knowledge has limited value unless it can be conveyed by word or picture, sight or sound. Studying history enables students to develop their creative and analytical powers, to learn the methodology of the discipline, to apply insights from other fields of thought, and to develop an understanding of a particular historical era.

History as a discipline is also committed to the liberal arts as the basic core of human knowledge. It contributes to the development of the individual's intellectual skills in preparation for employment. In addition, it encourages the creative and flexible thinking necessary to live in tomorrow's world of continuing change. Finally, the study of history can motivate students to pursue independent learning after college. It is essential that students appreciate the certainty of continuing change, develop the intellectual skills to respond to that change, and maintain a value system which enable them to understand the world and involve themselves in it.

## Graduate Degree Program

The UNF Master of Arts (M.A.) in History Program offers concentrations in European and United States history. Courses in African, Asian, and Latin American history are offered and may be used to fulfill non-concentration requirements. By the end of their
first year, students choose between thesis or non-thesis options both of which require a minimum of 36 credit hours to complete.

For admissions requirements, see graduate school academics.
For questions regarding the application process or to begin an online application contact The Graduate School, (904) 620-1360

For additional information or questions concerning the History Masters Degree contact David Sheffler, Graduate Coordinator, (904) 620-1856.

The History Department also offers a limited number of Graduate Teaching Assistantships (GTAs). Students selected to serve as GTAs receive a substantial stipend plus a partial tuition waiver for up to two years. Graduate Teaching Assistants are Friday section leaders for the World History classes in the fall and spring. Get more information on Graduate Teaching Assistantships and the application process.

## Undergraduate Degree Program

The requirements for a History major assure that graduates will develop both depth and breadth of knowledge of geographical regions of the world, time periods in history, and thematic approaches to understanding social, political, and economic changes in human societies. A degree in History prepares students for graduate or professional schools, as well as a wide variety of careers in law, teaching, business, government, public service and others. History stresses learning how to read critically, write effectively, and develop diverse yet rigorous bodies of knowledge. History majors will learn skills that open up a world of career opportunities.

To ensure that this broad range of knowledge is obtained all History majors are required to take courses in:

- U.S. History
- European History
- Non-Western History
- History Seminars


## Undergraduate Minor Program

## Minor in History

Students interested in history but majoring in another subject may get a minor in history.

The history minor provides students with an overall view about the people and events of the past. Students learn the various ways in which the past continues to shape the present.

The Program of Study for a minor in History is as follows:

## Total of 15 credit hours

- No more than 3 semester hours, or 1 course carrying lower level numbers may be used in the history minor.
- A minimum of 12 hours, or 4 courses, must be upper level.
- A minimum of 6 semester hours, or 2 courses, must be taken at UNF.
- 9 semester hours may be transferred towards the minor.
- A grade of $C$ or better is required for all minor courses.

Select 5 History courses (3000/4000 level) from classes bearing the following prefixes:

- EUH, ASN, AMH, AFH, ASH, LAH

For more information on minors in History, please contact Dr. Charles Closmann ( cclosman@unf.edu).

## Minors in other Fields

## Asian Studies

Asian Studies is an interdisciplinary program administered by the Department of History. It is designed to facilitate an academic concentration in South, Southeast or East Asian civilization.

The faculty in Asian studies includes professors of religion, literature, philosophy, history, sociology, political science, business and education. Together, they offer a broad range of courses conceived to provide students both with the opportunity to encounter Asia from the perspective of its inhabitants and to employ a comparative perspective on the Asian contribution to world civilization.

Students minoring in Asian Studies must have the approval of a member of the Asian Studies Faculty. For more information please contact Dr. N. Harry Rothschild.

## Classical Civilization

The Classical Civilization minor is an interdisciplinary program administered by the Department of History. The minor enables students to fashion a course of study imparting a broad yet coherent understanding of the civilization of ancient Greece and Rome.

The faculty in Classical Civilization includes professors of religion, literature, languages, philosophy, and history. Together, they offer a range of courses conceived to provide students both with the opportunity to encounter Classical Civilization from a variety of perspectives.

Students minoring in Classical Civilization Studies must have the approval of a member of the Classical Civilization faculty. For more information please contact Dr. Philip Kaplan for more information.

## Honors in History

History majors at UNF may participate in an Honors Program at UNF. The program is available to students in history who are intellectually mature and who seek the challenge of doing a major research project under the supervision of a faculty mentor. This program is especially recommended to students who are considering graduate work in history or another discipline, such as law, which requires substantial research and writing.

To earn honors in history, students must fulfill the requirements for the major with a 3.5 GPA in their major courses; must satisfactorily complete an honors thesis under the direction of a faculty member and defend the thesis before a three-member committee; and must complete the honors colloquium. Students who complete these requirements will have honors in history noted on the transcript and diploma. For further information and applications, contact the department chairperson at (904) 6201864 or go directly to the catalog entry for the Honors and Scholars program.

## Internships, Community Based Transformational Learning, and Study Abroad

The History Department offers students several opportunities for internships, classes that include a community based transformational learning component, and study abroad.

- Internships include supervised, history-based work opportunities at local museums, parks, and environmental organizations.
- We occasionally offer classes that include a significant community based transformational learning opportunity.
- We also offer opportunities for our students to study abroad in Europe, Latin

America and other parts of the world.
For information on all of these opportunities, please contact the Chair of the History
Department, Dr. Charles Closmann, at 904-620-1864 and/or cclosman@unf.edu.

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## Department of History Faculty

Charles E. Closmann, Associate Professor \& Chair

Alan J. Bliss, Assistant Professor
Denise I. Bossy, Assistant Professor
James J. Broomall, Assistant Professor
Alison J. Bruey, Assistant Professor
David T. Courtwright, Professor
Gregory F. Domber, Assistant Professor
Denice L. Fett, Assistant Professor
Philip G. Kaplan, Associate Professor
Chau J. Kelly, Assistant Professor
Lela F. Kerley, Assistant Professor
Theo C. Prousis, Professor
Norman H. Rothschild, Associate Professor
David L. Sheffler, Associate Professor

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# Department of Languages, Literatures \& Cultures 

Location: Building 10, Room 2425

Phone: (904) 620-2282
Web Address: http://www.unf.edu/coas/languages/
Dr. Patricia Geesey, Chair

## Mission

The mission of the Department of Languages, Literatures and Cultures is to promote academic excellence by providing UNF students with the opportunity to learn to communicate effectively in writing as well as orally in a language other than English. Additionally, the department fosters human understanding by exposing students to a multiplicity of textual constructs and by urging them to undertake cultural experiences that enhance their vision as global citizens. The Department's pedagogical focus is to underscore at all times the importance of language as a window to human understanding. The Languages, Literatures and Cultures faculty strives to instill in students the critical skills necessary to analyze a variety of texts-literary and otherwise-in their original language and social context, so that they may discern and appreciate cultural differences. Programmatic relevance is ensured by a shared teaching methodology that blends language instruction at its most practical level with academic approaches in the humanistic tradition, which assert the inherent value of multiculturalism. In order to ascertain success in its mission, the Department assesses its students yearly through instruments tailored to the program as well as to the desired learning outcomes. This commitment to rigorous assessment promotes self-reflection on the part of a committed faculty willing always to renovate and upgrade the language program for the benefit of UNF students as well as to address the needs of the community the university serves.

## The Program

Learning another language is essential in today's global, multicultural society. The current nature of international business as well as increasing opportunities to travel or work abroad require the cultural awareness that only language knowledge provides. In addition, as the twenty-first century unfolds, the United States is increasingly becoming a more ethnically diverse nation that encompasses a multiplicity of cultures. The ability to communicate effectively in at least one other language and the willingness to open oneself to diversity by studying in depth the literary and cultural productions of others ensures success in such an evolving community of peoples.

The mission of the Department of Languages, Literatures and Cultures is to continue to expand the opportunities for UNF students to learn to speak a language fluently, to read it well and to converse and write with ease about the literature and culture associated with it. Therefore, the department offers Bachelor of Arts degrees in both French Studies and Spanish, as well as minors in French,

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Spanish and Chinese. First and second year courses in German language are also offered regularly.

Pursuant to its mission, the Department Languages, Literatures and Cultures encourages students to study abroad by working in conjunction with the UNF International Center. The department sponsors summer programs in Santander, Spain, and Strasbourg, France. Given existing relationships with the University of Alcalá de Henares (Spain), the University of Cantabria (Spain) and the University of Nantes (France), those who seek a longer experience abroad may study Spanish language, culture and literature for a semester or an entire year in Alcalá de Henares, Santander or French language, culture and literature in Nantes. With the assistance of the UNF International Center, students are also able to study independently in different academic institutions throughout the world. The department maintains a state-of-the-art computerized language lab that provides a variety of software programs. UNF students use the facility to practice and to engage in self-immersion activities.

## Majors and Minors

The Department of Languages, Literatures and Cultures offers Bachelor of Arts degrees in both French Studies and Spanish, as well as minors in French, Spanish and Chinese.

French Studies and Spanish majors must complete 30 credit hours of instruction above the intermediate level (FRE 2240-2241; SPN 2200-2201) with grades of "C" or above. All language majors must earn a university-approved minor in a secondary field of studies. They also have to fulfill general education requirements stipulated by the institution as well as the College of Arts and Sciences graduation requirements. The minimum total hours required for all four-year degrees is 120 credit hours.

## Study Abroad

Pursuant to its mission, the Department of Languages, Literatures and Cultures encourages students to study abroad by working in conjunction with the UNF International Center. The department sponsors summer programs in Santander, Spain, and Strasbourg, France. Given existing relationships with the University of Alcalá de Henares (Spain), the University of Cantabria (Spain) and the University of Nantes (France), those who seek a longer experience abroad may study Spanish language, culture and literature for a semester or an entire year in Alcalá de Henares, Santander or French language, culture and literature in Nantes. With the assistance of the UNF International Center, students are also able to study independently in different academic institutions throughout the world.

## Language Laboratory

The department maintains a state-of-the-art computerized language lab that provides a variety of software programs. UNF students use the facility to practice their skills and to engage in selfimmersion activities.


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## Department of Languages, Literatures \& Cultures Faculty

Patricia A. Geesey, Professor \& Chair

Jorge M. Febles, Professor

Maria A. Fernandez Cifuentes, Assistant Professor
Gregory G. Helmick, Assistant Professor
Nuria Ibanez, Associate Professor
Constanza M. Lopez, Assistant Professor
Clayton L. McCarl, Assistant Professor
Shira I. Schwam-Baird, Professor
Renee S. Scott, Professor
Yongan Wu, Assistant Professor

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# Department of Mathematics and Statistics 

Location: Building 14, Room 2731
Phone: (904) 620-2653
Web Address: www.unf.edu/coas/math-stat/

## Dr. Scott Hochwald, Chair

## Mission

The mission of the Department of Mathematics and Statistics is to provide an excellent education for students in mathematics and statistics, to focus scholarly efforts on expanding our knowledge of those two disciplines, and to participate in activities that promote mathematics and statistics in relevant ways. Our programs are designed to provide majors and graduate students with the background necessary to pursue quantitative careers in mathematics or statistics as well as the background to pursue more advanced degrees. We also strive to provide students in General Education mathematics courses with substantive skills in quantitative and abstract reasoning and in the use of mathematics and statistics as computational and analytical tools.

Our courses are designed to educate in an appealing and thought-provoking manner. We strive to instill our students with an appreciation for the power of mathematics and statistics as well as a desire to be lifelong learners. Department faculty are encouraged to engage in research projects that either yield new results in their areas of expertise or that apply to problems of interest to scholars in other disciplines. Department faculty are also encouraged to be involved in meaningful professional service to the university and the disciplines regionally, nationally, and internationally. In addition, all of our endeavors are subject to self-reflection in an effort to maximize their effectiveness.

## The Program

Mathematics \& Statistics provide powerful tools for a constantly expanding variety of problems. There is hardly a field to which these intrinsically related sciences have not been applied, often providing capabilities that would have seemed fantastic only a few years ago. The Department of Mathematics \& Statistics provides the student with an integrated approach to these areas and, at the same time, permits pursuit of a bachelor's degree with concentration in either of the two disciplines. It is recommended that prospective mathematics and statistics majors elect strong science options in their freshman and sophomore years.

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## General Information

The student must select either the mathematics or statistics program. All mathematics and statistics majors must have a minor. Bachelor of Science students must select their minors from the approved list (see right menu for approved list). A grade of "C" or better in all prerequisite, major and minor courses is required for graduation. All majors must fulfill the University's general education requirements and the College of Arts and Sciences graduation requirements. The minimum total hours required for all four-year degrees is 120 credit hours.

## Honors in Mathematics and Statistics

A student may apply for the honors program after completing at least Calculus I, Calculus II, and one other mathematics or statistics course (that counts toward the major) at the 3000-level or above. An overall GPA of at least 3.25 for courses at or above the level of Calculus I is required. Once accepted into the program, a student will work with a faculty member to select courses and to complete an honors project. Please see department chair for details.


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## Department of Mathematics and Statistics Faculty

Scott H. Hochwald, Associate Professor \& Chair

Faiz B. Al-Rubaee, Associate Professor
Beyza C. Aslan, Assistant Professor
Denis R. Bell, Professor
Devrim Bilgili, Assistant Professor
Adel N. Boules, Professor
Elena M. Buzaianu, Associate Professor
Hugh R. Cornell, Instructor
Malgorzata M. Czerwinska, Assistant Professor
Michelle R. DeDeo, Associate Professor
Daniel L. Dreibelbis, Associate Professor
Alina R. Dumitru, Associate Professor
Jose A. Franco, Assistant Professor
Daniela T. Genova, Associate Professor
James U. Gleaton, Associate Professor
Sami M. Hamid, Associate Professor \& Undergraduate Director
Jongsook Han, Visiting Instructor
Ognjen B. Milatovic, Associate Professor
Donna L. Mohr, Professor
Richard F. Patterson, Professor
Mohammad M. Rahman, Associate Professor

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Luminita Razaila, Instructor
Paul W. Rowe, Instructor
Ping Sa, Professor
Pali Sen, Professor
Debora J. Simonson, Instructor
Jaimee E. Stewart, Visiting Instructor
Jingcheng Tong, Professor
Kening Wang, Associate Professor
Peter S. Wludyka, Professor
Mei-Qin Zhan, Professor \& Graduate Director
Qiang Zhen, Assistant Professor


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# Department of Music 

Location: Building 45, Room 2004
Phone: (904) 620-2960
Web Address: http://www.unf.edu/coas/music/

## Dr. Randall Tinnin, Chair

## Mission

The University of North Florida (UNF) Music Flagship Program brings a focused commitment to excellence and the artistic and intellectual preparation of students for the diverse and challenging world in which we live. It aims to provide a high level of professional musical training as well as a sense of relevance regarding the value of music to our society through an active, pluralistic musical environment encompassing western European traditional art music through contemporary music including world music and jazz. The UNF Music Flagship Program faculty, excellent instructors evidenced by their innovative pedagogy, scholarship, and research in their respective fields, serve as artist-teachers working with students in large and small performing ensembles as well as through individual applied instruction. Our comprehensive program is complemented by the Ira M. Koger Eminent Scholar Chair in American Music that provides an additional focus on jazz. Our department continues to achieve national and international recognition as a distinguished comprehensive center for the study, creation, and research in music, with emphasis on the contemporary.

The Music Flagship Program provides music majors and non-music majors alike the opportunity to develop their knowledge, understanding, and ability in all aspects of music at a level relevant and appropriate to their needs and interests, and to prepare music majors for careers as performers, teachers, composers, arrangers, and professionals in the music industry and its supporting fields. It is our hope to provide transformational learning opportunities within the scope of engaged selfreflection via practice and performance. The primary focus of our mission is the artistic enrichment of the lives of all UNF students and faculty, while promoting the University and greater Jacksonville community as ambassadors throughout the region, the nation, and the global community.

## The Program

The Music Flagship Program provides instruction leading to accredited degrees in Music Performance and Music Education. This includes both classical and jazz training in both instrumental and vocal music. Coursework in music degree programs begins freshman year and culminates in a final recital spanning the knowledge and skill gained throughout the program of study. The Music Flagship Program offers limited access programs. Students who wish to pursue a degree in music must successfully pass a music audition for entrance into a music degree program and must maintain both the academic and musical performance standards to remain as music major. This includes academic record, ensemble participation, and successful completion of

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semester performance jury examinations.

## The Major

After auditioning and being accepted by the music faculty, the student must select a degree track as a music major. Offerings include a Bachelor of Music in Performance, Bachelor of Music in Jazz Studies, and Bachelor of Music Education. Each degree consists of a unique program of study that should be adhered to in order to follow sequential course offerings and to complete degree requirements. A music major receiving a " $C$ " or below in applied music will be placed on probation and will be required to repeat the course. A music major receiving a "D" or below in a non-applied music course will be placed on probation and will be required to repeat the course. All music courses can only be repeated once while on probation. Should a student not make satisfactory progress in any music course after being placed on probation, the student will be expelled from the program. Conduct not deemed appropriate is also grounds for probation and dismissal. The probation period is one subsequent semester. All majors must fulfill the University's general education requirements and the College of Arts and Sciences graduation requirements. The minimum total hours required for all four-year degrees is 120 credit hours.

## Approved Minors in Music

At this time the Music Flagship Program does not offer a music minor, however, interested students may enroll in a variety of music courses for general education or elective credit. Music ensembles are also available for audition and enrollment in both the classical and jazz areas. For more ensemble information contact the Music Flagship Program at (904) 620-2961 or
visit www.unf.edu/coas/music/.

## Accreditation

University of North Florida is home to one of the most recognized performance-based music programs in the country. With an emphasis on American Music and comprised of dedicated faculty members who are recognized artist/practitioners in their fields, UNF's Music Flagship Program offers a stimulating, yet personal atmosphere in which students can study and grow. The UNF Music Flagship Program is a limited access and exclusively undergraduate program offering Bachelor of Music (B.M.) degrees in Performance with concentrations in Voice, Piano, Piano Pedagogy, Woodwinds, Brass, Percussion, and Strings as well as a B.M. in Jazz Studies. UNF also offers a Bachelor of Music Education degree. Since its beginnings in 1972, the department's limited access status has allowed for a more personal rapport between teacher and student while upholding the highest standards of musical excellence. The countless awards and endorsements that the Department has received and continues to receive is testament to the caliber of the UNF Music Flagship Program as one of the very best anywhere. UNF's Music Flagship Program is a fully accredited member of the National Association of Schools of Music (NASM).


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## Department of Music Faculty

## Randall C. Tinnin, Associate Professor \& Chair

Lynne Arriale, Associate Professor
Erin K. Bennett, Assistant Professor
Krzysztof Biernacki, Associate Professor
Michael A. Bovenzi, Assistant Professor
Gordon R. Brock, Professor
James N. Curry, Assistant Professor
Todd T. DelGiudice, Assistant Professor
Marcus Dickman, Associate Professor
Stephen J. Gosden, Assistant Professor
Daniel R. Gottlieb, Associate Professor
Barry R. Greene, Professor
James C. Hall, Assistant Professor
Clarence B. Hines, Assistant Professor
Charlotte N. Mabrey, Professor
Dennis J. Marks, Associate Professor
Sarah Provost, Assistant Professor
James B. Scott, Associate Professor
Simon Shiao, Associate Professor
Gary L. Smart, Professor
Cara S. Tasher, Associate Professor

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# Department of Philosophy and Religious Studies 

Location: Building 10, Room 2325<br>Phone: (904) 620-1330; Fax: (904) 620-1840

Web Address: http://www.unf.edu/coas/philosophy/
Dr. Hans-Herbert Koegler, Chair
hkoegler@unf.edu

## Mission

The Philosophy Program promotes academic excellence by providing the highest quality undergraduate and graduate learning opportunities and by fostering the highest quality research and scholarship in philosophy. It is focused on equipping students with core knowledge and skills, while acquainting them with the range and diversity of traditions and orientations in philosophy. The program is committed to the relevance of its efforts, promoting meaningful institutional, professional, and community service, while emphasizing teaching and research attentive to the application of philosophical knowledge and skills. The philosophy program is dedicated to regular and ongoing scrutiny of all its efforts in teaching, research, and service. Informed by these commitments, the Department of Philosophy seeks to assist its multiple constituencies in appreciating the great intellectual conversations, in clarifying unexamined assumptions, in evaluating the ideas and norms that motivate intellectual inquiry, and in participating intelligently and responsibly in public debates.

Religious Studies is a multi-disciplinary effort to examine the phenomenon known as religion in an impartial, academic manner. Religious Studies scholars compare aspects of the variety of the world's religions, they ask philosophical questions about the nature of religion, and they explore the relationship between religions and the larger cultural context in which religions are found. Religious Studies teaches students to engage and understand world views different from their own. This not only broadens the students' perspectives, but it also provides skills useful in the global context in which we live. As an undergraduate minor, Religious Studies contributes to a student's grounding in the classical liberal arts. It focuses on clear thinking and writing, and it teaches students to ask insightful questions and see the world through the eyes of others.

The Department offers a Bachelor of Arts degree in philosophy as well as four Minors. It also offers two graduate degrees: an MA in Practical Philosophy \& Applied Ethics and a Graduate Certificate in Applied Ethics. In Religious Studies, it offers a Bachelors of Arts in Religious Studies and a Minor in Religious Studies. The Department is affiliated with the Florida Blue Center for Ethics at UNF.

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## MA in Practical Philosophy \& Applied Ethics

The M.A. in Practical Philosophy and Applied Ethics seeks to provide students with the knowledge and skills needed to apply ethical and philosophical reasoning to issues of pressing concern in social, political, and cultural life. This primary objective is pursued through the advanced academic study of applied ethics and moral, social, political, and cultural philosophy so as to develop essential capabilities in ethical decision-making, cultural understanding, and analytic reasoning. The program's aim is excellence in general comprehension of the relation between normative issues and institutional, social, cultural, and political contexts, while equally leading students toward independent and original scholarship. Its philosophical focus consists in (i) applying ethical reflection to specific dilemmas encountered in public and professional life; (ii) understanding the normative and philosophical assumptions that inform our experience of cultural, political, and social phenomena; and (iii) appreciating the complex interconnections between applied and theoretical considerations with regard to social, cultural, and political contexts. The particular relevance of the MA is claimed by addressing issues of immediate social importance, such as health care reform, cloning, stem cell research, the environment, effects of economic globalization, the reach of universal human rights, global terrorism, multiculturalism, race and gender, and the conditions of intercultural and cross-religious dialogue, among others. The department is committed to regular and ongoing self-scrutiny of all its efforts, including its pedagogy, curriculum, recruitment and retention practices, as well as its ability to place its graduates in relevant professions and/or to prepare them for further graduate study.

Required courses include PHI 6937 Proseminar I: Practical Philosophy; PHI 5605 Ethics, and PHI 6938 Proseminar II: Applied Ethics. The MA requires 33 hours.

## Graduate Certificate in Applied Ethics

The Graduate Certificate is designed for professionals and policy makers who wish to develop an expertise in ethics that is directly relevant to their working environment. It provides a valuable credential to those who, for example, serve on institutional ethics committees and compliance boards or seek advanced ethics training to meet licensure requirements. It requires 12 hours.

Further information concerning the graduate programs, including current course offerings, can be obtained by consulting the Department's website.

## B.A. in Philosophy

Students study the main developments and traditions in the history of philosophy; develop critical reasoning skills and facility with logical analysis; study modes of normative analysis in ethical inquiry and gain an ability to apply them to current social issues; learn to read complex prose systematically and critically, and learn to write and to speak in a reasoned, persuasive, and argumentatively effective manner.

Areas of faculty expertise include Ancient Greek philosophy, modern philosophy, classical German philosophy, comparative philosophy, ethics, applied ethics, biomedical ethics, business ethics, environmental philosophy, epistemology, logic, metaphysics, philosophy of language, philosophy of religion, philosophy of science, contemporary European philosophy, feminist philosophy, pragmatism, and social, political and legal philosophy.

The BA in philosophy requires 33 hours. Required courses include PHH 3100 Ancient Philosophy, PHH 3400 Modern Philosophy, PHI 3601 Ethics, PHI 3130 Symbolic Logic, one course in either PHI 3500 Introduction to Metaphysics or PHI 3300 Introduction to Epistemology, and the capstone PHI 4935 Philosophy Seminar; all course options are offered at least once a year.

Introductory courses include PHI 2010 Introduction to Philosophy, PHI 2630 Contemporary Ethical Issues, and PHI 2100 Reasoning and Critical Thinking. Every FTIC student at UNF has to choose one of three 2000-level philosophy courses as part of the Freshmen Experience program. Every student at UNF has to take one such course in order to meet UNF's General Education requirements and Gordon Rule writing requirements; the freshmen course are offered in the Fall term; all courses are offered every term, including summer. Besides grounding college students in critical thinking and writing, the course also serve as background for more advanced and specialized courses in the BA in philosophy.

## B.A. in Religious Studies

Students in religious studies will be introduced to a multidisciplinary field providing a solid grounding
in the liberal arts. The academic study of religion will help students to understand cultures, worldviews, and values other than your own; to understand their own worldview and values better; and to understand key aspects of national and world history, issues and conflicts. Besides being a preparation for graduate school, it is also an excellent preparation for a variety of careers including law, medicine, business, journalism, education, and the ministry.

The BA in Religious Studies requires 30 credit hours. It is spread among four categories (foundations, methods, traditions, and topics) and a Senior Capstone Seminar. Religious Studies students are encouraged to participate in a study abroad experience. The cross-cultural, interdisciplinary major will be represented by core faculty in Religious Studies located in the Department of Philosophy and Religious Studies. In addition, it will draw on faculty and courses from across the university, with other core courses found with philosophy prefixes ( PHI ), anthropology prefixes (ANT), and sociology prefixes (SOC). Required courses include REL 2300 Comparative Religion, REL 3102 Religion as Culture, REL 3040 Intro to Religion, as well as the Capstone Seminar in Religious Studies.

The program in Religious Studies offers significant Cultural Diversity courses in UNF's General Education program, including REL 2300 Comparative Religion, as well as REL 3102 Religion as Culture.

## Minors in Philosophy

The four Minors include a general Philosophy Minor, Culture and Philosophy Minor, Law and Philosophy Minor, and Applied Ethics Minor. All require 15 hours. One 2000-level General Education philosophy course can be counted towards the Minor. Further information on the program, including current course offerings, can be obtained by consulting the Department's website.

## Minor in Religious Studies

The Minor in Religious Studies requires 15 hours, including two required courses, REL 2300 Comparative Religion and REL 3102 Religion as Culture, and any three upper level Religious Studies (REL) courses or approved electives with prefixes other than REL. Further information on the Religious Studies program, including current course offerings, can be obtained by consulting the Department's website.

## Honors in Philosophy Major

The program is available to students in philosophy who are intellectually mature and who seek the challenge of doing a major research project under the supervision of a faculty mentor. This program is especially recommended to students who are considering graduate work in philosophy or another discipline, such as law, which requires substantial research and writing. To earn honors in philosophy, students must fulfill the requirements for the major with a 3.5 GPA in their major courses, must satisfactorily complete an honors thesis under the direction of a faculty member, and defend the thesis before a three-member committee. Students who complete these requirements will have honors in philosophy noted on the transcript and diploma. For further information and applications, contact the department chairperson at (904) 620-1330.

## Study Abroad/Community-Based Transformational Learning

The department is offering a diverse set of courses in UNF's Study Abroad program. The Department is the recipient of an Engaged Department Initiative for Community-Based Transformational Learning. The study abroad courses as well as the outreach to the community are organic aspects of its course offerings. Further information concerning specific course offerings during the current academic year can be obtained by consulting the department's website. For future plans and projects, please contact the department chair.


## Department of Philosophy and Religious Studies Faculty

Hans-Herbert P. Koegler, Professor \& Chair

Bryan E. Bannon, Assistant Professor
Andrew J. Buchwalter, Professor
Paul M. Carelli, Assistant Professor
Brandi N. Denison, Assistant Professor
David E. W. Fenner, Professor \& Associate Dean
Erinn C. Gilson, Assistant Professor
Mitchell R. Haney, Associate Professor
Julie J. Ingersoll, Associate Professor
Jonathan D. Matheson, Assistant Professor
Sarah A. Mattice, Assistant Professor
Murray W. Skees, Assistant Professor
Alissa M. Swota, Associate Professor

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# Department of Physics 

Location: Building, 50, Room 2600
Phone: (904) 620-2729
Fax: (904) 620-1989
Web Address: www.unf.edu/coas/physics

## Dr. James L. Garner, Chair

## Mission

The mission of the Department of Physics is to serve the people of the State of Florida and beyond by providing excellent educational experiences in physics, astronomy and earth science, advancing knowledge in physics through research, and service to the university, public and our profession. As a primary constituent of a liberal arts education, we seek to foster an appreciation of the physical world and an understanding of the scientific method of inquiry. We aspire to install in our students the principles, motivations, comprehension, and vision to prepare them for careers in physics and related fields, for physics teaching careers, and for intellectual growth throughout their lives.

## The Program

The Department of Physics offers the Bachelor of Science degree in physics with eight concentrations: traditional physics, astrophysics, engineering physics with civil or electrical or mechanical engineering emphases, and computing emphasis, physics: materials science and premedical physics for those students who desire to matriculate to a medical school or a graduate program in medical physics. A minor is also offered in physics. Interested students may decide to major in physics while choosing the physics teaching option which combines the physics baccalaureate degree with an education minor. The department offers honors-in-the physics major. The department encourages the more applied-oriented physics majors to take part in industrial internships, a teaching apprenticeship program, and an exchange programs at the University of Technology of Troyes, France for our majors. Finally, planning is under consideration to develop a Masters in Materials Physics in collaboration with the UNF Chemistry Department.

The importance of physics in the intellectual and economic life of the 21st century is clear to thoughtful individuals. The increased use of complex technologies in microelectronics, environmental physics, optics, space and renewable energies, defense, health care, nanotechnology, manufacturing and other industries provides ample evidence that the value of understanding physics will continue to be important for individuals and society. The department faculty are committed to excellence in undergraduate instruction and have the two-fold objectives of teaching physics, astronomy and earth science to students from all programs of the university while also educating competent baccalaureate physicist who engage in active and productive funded research on topics of current interest to society at large.

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Students in the physics program often participate in the research of our faculty. Currently, physics students can participate in research on the experimental and theoretical properties of magnetic semiconductors and high -Tc superconductors, magnetic materials, optical studies of correlated electron systems, non-linear optical and electrical transport properties of metallic and semiconducting nanocrystals, theoretical astrophysics of black holes, experimental and computational nuclear physics, physics history, and experimental membrane, interface, and sensor physics. The department has an extraordinary array of major research instruments for a comprehensive university of UNF's size: two atomic force microscopes, pulsed laser, scanning electron microscope, Raman spectrometer, SQUID magnetometer, physical properties measurement system and thermal and electron vacuum deposition systems for thin films. In addition, the department is in the process of installing a Helium liquefication facility that will put UNF physics at the forefront of research at primarily undergraduate universities in the nation. By a judicious choice of courses, students in research programs can obtain credit toward graduation.

Many physics students receive financial support from faculty research grants (national science foundation, research corporation, and the department of defense), and university grants and scholarships to support their research activities under the mentorship of the faculty. Students are often times employed by the university and department as tutors and graders. The department supports students via scholarships (e.g., Hercules and the Shacter). The department supports an active Society of Physics Students on campus.

Two-thirds of the physics graduates at UNF over the past decade have continued their studies in graduate or professional schools around the nation and the world.


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## Department of Physics Faculty

## James L. Garner, Professor \& Chair

Lynn B. Albright, Lecturer
John E. Anderson, Senior Lecturer
Daniel J. Arenas, Assistant Professor
Andrew T. Douglas, Visiting Assistant Professor
Imeh Ebon, Associate Professor
Lev V. Gasparov, Professor
Jane H. MacGibbon, Associate Professor
James L. Montgomery, Visiting Instructor
Nirmalkumar G. Patel, Senior Lecturer
Thomas M. Pekarek, Professor
Daniel F. Santavicca, Assistant Professor

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# Department of Political Science and Public Administration 

Location: Building 51, Room 2414

Phone: (904) 620-2977
Web Address: www.unf.edu/coas/polsci-pubadmin/

Dr. Matt Corrigan, Chair

## Mission

The mission of the Department of Political Science and Public Administration is to serve the State of Florida through excellent educational opportunities involving outstanding teaching, quality research, and effective civic engagement. The department focuses its resources to provide both undergraduate and graduate students with the knowledge, skills, and abilities for understanding, participating in, and managing the institutions, processes, and behaviors characteristic of national and international politics and public affairs. With excellent instruction as the highest priority, the department also supports extensive interaction with external constituencies through local, regional, state, and national professional service, and applied and theoretical research. The department is dedicated to maintaining program effectiveness for both students and community partners through continuous self-assessment and improvement.

## The Program

The Department of Political Science and Public Administration offers a bachelor's degree program in political science. The department also offers minors in political science and public administration. These minors may be taken with a student's major program; students should consult with their advisor on procedures for declaring a minor. The department offers a master degree program in public administration and a certificate in nonprofit management.

## Bachelor of Arts in Political Science

Political Science, the study of politics, is concerned with understanding political phenomena and developing citizens who are aware of their political rights and responsibilities. The political science major at UNF has three broad objectives. The first is to convey to students knowledge about the subfields within the discipline, with an emphasis on American government and politics, comparative politics, international relations and public administration. The second is to provide students with the skills needed for active and effective participation in the democratic process.

The final objective is to prepare students for careers associated with politics. The political science major provides an excellent background for admission to law school, and is a solid foundation for graduate work in political science, public administration and urban planning. Majors also find

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exciting work in campaign and legislative politics. In addition to preparing students for graduate work, the conceptual and methodological skills developed in the major equip students for employment by local, state and national organizations, corporations and nonprofit groups located in the U.S. and foreign countries, international organizations such as the United Nations, the print and electronic media, and secondary education.

UNF offers an undergraduate major in political science culminating in the Bachelor of Arts degree. Two minors, political science and public administration are available within the department. The department also offers a Master of Public Administration (MPA) degree. Majors must have a grade of " $C$ " or better in each core course, and a minimum GPA of 2.0 in major elective courses.

Political Science majors choose one of five concentrations to organize their major elective credits. The concentrations allow students to focus on one of the subfields of political science (American Politics, International Relations/Comparative Politics, Public Administration and Public Policy, and Public Law) or to choose General Political Science. Once students choose their concentration, they choose four courses from the list of electives within each concentration. Those students choosing the General Political Science concentration may choose electives from a comprehensive list of courses including all those available under the other concentrations. The remaining free electives may be selected from any concentration or any other approved political science course except the foreign culture courses.

## 30-Hour Fast Track Option in Master of Public Administration

A Fast Track leading to entry into the Public Administration (MPA) degree is available to UNF Political Science majors. Students who successfully complete the Fast Track requirements, and who meet the admission requirements for the MPA program, will be able to complete the MPA degree with 33 hours of credit rather than the 42 credit hours otherwise required.

Undergraduate Fast Track requirements are that a student: (1) must be a UNF undergraduate Political Science major; (2) must declare an intent to exercise the Fast Track option prior to their senior year; (3) must have an overall GPA of 3.0 or higher in the last 60 hours of undergraduate course work; (4) must make a grade of at least B or higher in PAD 4003 (taken as part of the Fast Track concentration core requirements; (5) must complete the Political Science Fast Track concentration minor requirements; and (6) must have a B average or above for the five courses required in the Fast Track minor. All sic of these conditions must be met in full.

If the undergraduate requirements stated above are met, Fast Track students may continue into the MPA program, provided they apply for the program and meet the minimum Graduate Record Exam (GRE) requirements of the program for unconditional admission. Fast Track students who enter the MPA program in conditional status are not eligible for the 33 hour version of the program. MPA students who meet both Fast Track undergraduate and unconditional admission requirements may omit PAD 6060 and two MPA program electives from their graduate program of study. The remaining MPA core courses and electives constitute the 33 hour program. Please see the MPA Director for further information on the Fast Track option.

## The Graduate Program

The mission of the UNF M.P.A. program is to provide students with a broad understanding of the theory and practice of public administration, and to contribute to the betterment of the public and not-for-profit service community in the state, particularly in the Northeast Florida region. These general goals are obtained commensurate with the University of North Florida's commitment to excellence, focus, relevance, and accountability in all of its academic programs.

The M.P.A. program serves to open a path to graduate education to a wide variety of students, particularly nontraditional students, who seek an opportunity to enhance their professional qualifications and career prospects in the public and not-for-profit sectors. The ultimate purpose of the M.P.A. program is to enhance the capabilities of potential and current administrative, managerial and political leaders of the region to better serve their organizations and the public in the competitive environment of the 21st century.

The M.P.A. curriculum is intended to enrich student understanding of the complex arrangements that constitute modern governance, and to enable students to develop the skills and attitudes that contribute to effective program administration. For the student who already possesses significant government or not-for-profit experience, the program provides opportunities to gain new skills and to develop an enlarged perspective on public sector management. The department has added a concentration and a certificate in Nonprofit Management. This concentration will help those students
who seek a broader understanding of nongovernmental agencies that engage in important social and cultural endeavors.

Students from any discipline or background or at any stage in their careers, who are interested in public or not-for-profit employment or advancement, are encouraged to consider the M.P.A. program.

## Accreditation

The M.P.A. program is accredited by the National Association of Schools of Public Affairs and Administration.


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## Department of Political Science \& Public Administration Faculty

Matthew T. Corrigan, Professor \& Chair

Michael M. Binder, Assistant Professor
Mary O. Borg, Professor
Gaylord G. Candler, Associate Professor
Natasha V. Christie, Assistant Professor
Justin P. DePlato, Assistant Professor
Georgette E. Dumont, Assistant Professor
Martin I. Edwards, Senior Instructor
Ronald T. Libby, Professor
Sucheta Pyakuryal, Assistant Professor
David M. Schwam-Baird, Associate Professor
Nicholas Seabrook, Assistant Professor
Nancy E. Soderberg, Faculty Administrator
Pamela A. Zeiser, Associate Professor

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## Department of Psychology

Location: Building 51, Room 3404
Phone: (904) 620-2807
Web Address: http://www.unf.edu/coas/psychology/
Dr. Michael Toglia, Chair

## Mission

Psychology is the scientific study of human and animal behavior. The Department of Psychology teaches the history, methods, and philosophies of approaches to our field.

The Department provides the highest quality academic experience at the graduate and undergraduate levels. We teach the skills and knowledge our students need for personal and professional advancement.

As active scientists and professionals, we perform research that advances our field and we engage in activities that serve our profession. As committed educators, we collaborate with students on research projects and community activities.

## The Program

Psychology majors graduate with either a Bachelor of Arts or a Bachelor of Science. For admission to the degree program, students must earn at least a C in introductory psychology, in elementary statistics, and in general biology. Psychology majors must earn at least a C in courses applied to the degree.

Psychology minors complete 18 credit hours in psychology. No more than $50 \%$ of courses required for the minor may be transferred from another institution. A grade of at least $C$ is required for all minor courses, including prerequisites.

## Honors in Psychology

Outstanding undergraduate psychology majors can graduate with the designation "Honors in Psychology." To do this, they apply for admission to the Psychology Honors Program. Candidates should apply at least three semesters prior to graduation.

## Admission to the program requires:

- An overall GPA of at least 3.50
- Junior or senior standing
- Completion of at least three UNF psychology courses with a psychology GPA of at least 3.50 and no grade less than B

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- Completion of IDH3922, Honors Thesis Prospectus with a grade of B or better

A Department of Psychology faculty member to supervise the Honors Project

## Successful completion of the program also requires:

- Completion of 6 credit hours of PSY4904 Honors Research with a grade of B or better
- Completion of IDH3920 Thesis Symposium Colloquium with a grade of B or better
- Deposit of an approved thesis in the Thomas G. Carpenter Library

As they plan for the "Honors in Psychology" designation, students should consult the Coordinator of Undergraduate Research in the Honors Program as soon as possible.

## Research Opportunities

Involvement in research is an important part of the psychology major experience at UNF. Students can become involved in our research in two ways:

- As a participant in an experiment
- As a member of a professor's research team

Learn more about becoming a participant and about our faculty's research teams by contacting the Department of Psychology.

## Graduate Program

The Master of Arts in General Psychology is offered as the only graduate degree.


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## Department of Psychology Faculty

## Michael P. Toglia, Professor \& Chair

Ashley B. Allen, Assistant Professor

Tracy P. Alloway, Assistant Professor
Lynne Carroll, Professor
Brian J. Fisak, Associate Professor
Jason Grotuss, Assistant Professor

Christoph D. Guess, Professor
Brian P. Higley, Assistant Professor
Melissa D. Hirschman, Instructor
Katherine C. Hooper, Assistant Professor

Iver H. Iversen, Professor

Lori J. Lange, Associate Professor
Juliana Leding, Associate Professor
Christopher T. Leone, Professor

Rebecca A. Marcon, Professor
Jody S. Nicholson, Assistant Professor
Susan M. Perez, Associate Professor
Joseph Schmuller, Assistant Professor
Mark S. Schwartz, Assistant Professor

Heather B. Truelove, Assistant Professor
Dong-Yuan Wang, Associate Professor

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# Department of Sociology, Anthropology, and Social Work 

Location: Building 51, Room 2304
Phone: (904) 620-2850
Web Address: http://www.unf.edu/coas/soc-anth/

Dr. Krista E. Paulsen, Chair

## Mission

The Department of Sociology, Anthropology, and Social Work seeks to provide greater understanding of human behavior with a focus on its social and cultural contexts, both locally and globally. We strive to accomplish this through our commitment to excellence in undergraduate education and scholarly research; through the development of practical and applied skills in which our students and faculty draw upon their knowledge to critically analyze and enhance the diverse communities in which they live and work; through the focused use of available resources; and through a process of continual self-reflection and improvement.

## Department Accreditation Status

The Department of Sociology, Anthropology, and Social Work's Bachelor of Social Work (BSW) Program was granted candidacy status by the Council on Social Work Education in February 2013, and anticipates receiving full accreditation status before graduating its first class of BSW students in spring 2015. BSW graduates will have the option of entering an Advanced Standing MSW program, in which they can complete their graduate education in approximately one year (compared with two or more years without a BSW from an accredited program). Other degree programs within the Department are not accredited by outside agencies.

## The Program

The Department of Sociology, Anthropology, and Social Work includes faculty and degree programs in three disciplines: Sociology, Anthropology, and Social Work. All share a common emphasis on human behavior, though their specific emphases differ.

Sociology is the study of social life, social change, and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies, and how people navigate and interact within these contexts. As a social science, sociology employs a rigorous methodology that includes both quantitative and qualitative data analysis. Central areas of sociological inquiry include social class, race and ethnicity, gender, religion, urban life, work and organizations, social welfare, family, politics, and international development. UNF's Sociology faculty have expertise across these areas and maintain active research agendas. They bring knowledge and passion into the classroom, and many of our faculty have involved students in research

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projects.
Anthropology is the systematic study of humanity from a holistic, cross-cultural, and historical perspective. It draws insights from a variety of disciplinary lenses, including the social sciences, the humanities, and the biological sciences. The goal of anthropological research is a deep and rich understanding of who we are as humans, how we have changed, and why we are as we are. UNF's Anthropology program provides rigorous training in sociocultural anthropology, linguistic anthropology, archaeology, and physical anthropology. In addition, students learn to apply their anthropological knowledge to real-world human problems at the local or international level. The UNF Anthropology faculty represent the diversity of discipline, and are active in publishing and presenting their research.

Social workers routinely provide services in the areas of child welfare, housing assistance, disaster relief, mental health, substance abuse, crisis intervention, vocational training, hospice and palliative care, juvenile justice and corrections, and victim advocacy. UNF's Social Work program provides fundamental training in the theory and practice of social work with individuals, groups, families and communities. The program includes a substantial field education component, placing students in local agencies like those where they would work as professionals. UNF's Social Work faculty have extensive academic training as well as practical experience in the field.

## Undergraduate Major Degree Programs

The Department offers BA degrees in Sociology and in Anthropology, and a BSW in Social Work. All majors must fulfill the University's general education requirements and the College of Arts and Sciences graduation requirements. The minimum total hours required for all four-year degrees is 120 credit hours.

Bachelor of Arts in Sociology (BA): The Sociology BA program is divided into two concentrations: General Sociology and Social Welfare. Both concentrations share a common core of courses in sociological theory and research methods, and both require six hours of lower-level sociology courses as a prerequisite. Students who have a broad interest in sociology or who aspire to graduate work in the field should consider the General Sociology concentration (33 credit hours), which allows maximum flexibility in the choice of major electives. Those who seek to apply sociological insights in the context of human services professions should select the Social Welfare concentration ( 36 credit hours), which includes core courses in social welfare as well as tailored electives. Both concentrations require a minor.

Bachelor of Arts in Anthropology (BA): The Bachelor of Arts in Anthropology (36 credit hours) is grounded in the discipline's four fields: archaeology, sociocultural anthropology, linguistic anthropology, and physical anthropology. Students take a core course in each of these areas, as well as courses in the theories, methods, and traditions of the discipline. Elective courses provide insights into the cultures and regions about which faculty have specialized knowledge (for instance, Southeast Asia or the Southeastern U.S.), or into specific topics of interest to Anthropologists (such as religion or globalization). Many students complement their coursework with applied research experiences in Department's labs or the Archaeological Field School. Prerequisites include six hours of lower-level courses in Anthropology.

Bachelor of Social Work (BSW): The Bachelor of Social Work degree is a 54-credit hour program designed to develop students' knowledge of social work and their skills in social work practice. Prerequisites include five lower-level courses that provide background in social sciences and biology, and students are encouraged to take a lower-level course in social work or human service provision. The BSW program of study includes required courses in social work theory and practice, as well as courses in social diversity and electives that enhance students' knowledge of specific client populations and practice contexts. In their second year, all students will complete a twosemester supervised internship at an approved field site. The BSW is a limited-access program, admitting students in fall semester only. The degree program is designed for full-time students. Prospective students should consult the Department's website for current application information and deadlines. BSW students are not required to complete a minor.

## Undergraduate Minor Degree Programs

In addition to our BA and BSW programs, the Department offers minors in Sociology, Anthropology, Social Welfare, and Urban and Metropolitan Studies. All of the Department's minors are 15 credit hours (some have additional prerequisite requirements).

Sociology Minor: The Sociology Minor facilitates a basic understanding of the field through a
required course in sociological theory and a choice of four additional upper-level electives.
Anthropology: The Anthropology Minor allows students to choose from a range of courses across this diverse field.

Social Welfare: The Social Welfare Minor requires courses in social welfare, human services and social diversity; electives further prepare students for work with a variety of client populations.

Urban and Metropolitan Studies: This interdisciplinary minor allows students to examine cities, urban regions and urban issues from a variety of perspectives including Sociology, Anthropology, Economics, Political Science, History and others.

## Honors in the Major

Outstanding and highly motivated Sociology and Anthropology majors may apply for Honors in the Major. Students who successfully complete the requirements of the program will have "Honors in Sociology" or "Honors in Anthropology" appear on their transcript. Application should be made at least two semesters prior to graduation. Sociology students seeking Honors in the Major must have a 3.5 GPA in the major and complete an honors project under the supervision of a faculty member. For Honors in Anthropology, students must meet a minimum cumulative GPA requirement of 3.5, demonstrate proficiency at the intermediate level (four semesters) in a language other than English, and complete a thesis project with faculty supervision. For complete information on Honors in the Major and application materials, please contact the Department of Sociology, Anthropology, and Social Work.

## Study Abroad/CBTL/TLO Programming

The Department of Sociology, Anthropology, and Social Work has a strong record of providing students with learning opportunities outside the classroom. These include faculty-led study abroad trips, the Archaeological Field School (offered each summer), undergraduate research opportunities, internship opportunities, and community-based learning. Faculty in both Sociology and Anthropology have led students on study abroad trips (to Southeast Asia and to Iceland, most recently), and the Social Work faculty look forward to including study abroad opportunities in the BSW program. The Anthropology program offers an Archaeological Field School each summer that allows students to examine native Floridian and early European sites near the UNF campus. Students who have conducted research in the contexts of their courses, honor projects, field school or independent studies are invited to present posters or papers at the Department's annual Undergraduate Research Symposium. In 2013, over 50 students made presentations. All BSW students are required to complete internships as part of their program of study, and students in the Anthropology and Sociology programs may complete a supervised internship as an elective. The Department has ongoing relationships with a number of local agencies that welcome student interns. Finally, as a result of ongoing collaborative work with community organizations, the Department of Sociology, Anthropology, and Social Work was recognized by UNF as an Engaged Department in 2011. The Department offers a number of courses that provide opportunities for Community Based Transformational Learning.

## Department of Sociology, Anthropology, and Social Work Faculty

## Krista E.Paulsen, Associate Professor \& Chair

Rosa De Jorio, Associate Professor
Melissa D. Hargrove, Assistant Professor
David D. Jaffee, Professor
Ronald F. Kephart, Associate Professor
Ronald A. Lukens-Bull, Associate Professor
Ross E. McDonough, Instructor
Aleksandra S. Milicevic, Assistant Professor
Richard D. Phillips, Associate Professor
Gordon F. Rakita, Associate Professor
Suzanne Simon, Assistant Professor
Jennifer C. Spaulding-Givens, Assistant Professor
Jenny M. Stuber, Associate Professor
Robert L. Thunen, Associate Professor
Suzie Weng, Assistant Professor
JeffriAnne Wilder, Assistant Professor
Jeffry A. Will, Professor

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The College of Computing, Engineering and Construction (CCEC) prepares students for professional responsibilities and creative achievement in the fields of Computer Science, Information Systems, Information Science, Information Technology, Electrical, Mechanical, and Civil Engineering and Construction Management.

## Undergraduate Degree Programs

The College of Computing, Engineering and Construction offers the

- Bachelor of Science in Computing and Information Sciences - with concentrations in Computer Science, Information Systems, Information Science, and Information Technology
- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Civil Engineering
- Bachelor of Science in Mechanical Engineering
- Bachelor of Science in Construction Management


## Graduate Degree Programs

Graduate degrees offered are the

- Master of Science in Computing and Information Sciences - with concentrations in Computer Science, Information Systems, and Software Engineering
- Master of Science in Electrical Engineering
- Master of Science in Civil Engineering - with concentrations in Geotechnical/Structural and Water Resources/Environmental
- Master of Science in Mechanical Engineering

The College also collaborates with the Coggin College of Business to support an M.B.A. concentration in Construction Management.

The undergraduate computer science, information systems, information science, and information technology programs are accredited by the Computing Accreditation Commission (CAC) of ABET, http://www.abet.org. The undergraduate electrical engineering, civil engineering, and mechanical engineering programs are accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org. The undergraduate construction management program is accredited by the American Council for Construction Education (ACCE).
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## Mission

The College of Computing, Engineering and Construction offers exciting and demanding degree programs that lead to highly rewarding careers. One of the college's hallmarks is the interaction of the faculty with students on research projects. The faculty are committed to preparing our students to make significant contributions to their chosen professions and the Northeast Florida region and beyond.

## Vision

The College of Computing, Engineering, and Construction aspires to be nationally known for its admirable degree programs and research which contribute significantly to the economic vitality of the Northeast Florida region.
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## Values

The College seeks to develop the technical, communications, and leadership abilities of our students. We are committed to acting with integrity and employing ethical behavior in all of our dealings.

## Transformational Learning Opportunities

Transformation Learning Opportunities (TLO) are available for a variety of enriching experiences while pursuing a degree at UNF, including but not limited to, directed independent research, cooperative experiences, study abroad opportunities, and internships. With prior approval, some of these may also be used for academic credit.
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## Laboratory and Computing Facilities

## www.unf.edu/ccec/facilities/

The general campus computing environment, including wireless Internet access, email systems, general purpose student computer labs, most technology-enhanced classrooms, and central business systems is maintained by UNF Information Technology Services.

Specialized and advanced computing, engineering, and construction management laboratories housed within the College extend general campus computing services by adding advanced facilities supporting the wide range of research and instruction that characterizes the College's degree programs.

The advanced School of Computing (SoC) laboratories are configured specifically to support upperlevel and graduate instruction and research in robotics, data engineering, software development, game development, mobile computing, computer security, and communications/networking, utilizing Windows, Linux, and Mac operating systems environments. Courses in the School of Engineering (SoE) are supported by specialized laboratories, which are equipped with advanced computer systems, engineering instrumentation, and specialized software.

These laboratories provide flexible environments suited for class work, senior design, and research projects. The Construction Management program uses computing and materials laboratories
designed to support and enhance the curriculum, capstone projects, and construction materials research.

The computing environments maintained by the College make use of the University's high-speed data network and Florida Lambda Rail, a high-speed, low-latency research network connecting the State's universities and research institutions.


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## Science and Engineering Building (Building 50)

Construction Management, Room 2400
Phone: (904) 620-2683
Fax: (904) 620-2573
Web address: www.unf.edu/ccec/construction/

## Mission

The mission of the Department of Construction Management is to educate and develop construction professionals with a global perspective through a rigorous, relevant, and accredited degree program offered by faculty devoted to excellence in teaching, scholarly activities, service projects, community involvement and ethical standards. Students will experience an active working relationship with local industry and develop a global perspective through cooperative efforts and exchange programs with international universities and colleges in the framework of a culture of ethics, which are vital in the development of successful construction professionals and provides distinct characteristics for our graduates' pursuit of career development and professional opportunities.

## Values

1. We believe that excellence in teaching, research, community service projects, and an active working relationship with our industry is essential to the development of successful construction professionals.
2. We believe that cultural awareness and a global perspective, achieved through study abroad is critical to the complete education of construction professionals.
3. We believe that effective construction education: a. Provides opportunities for transformational learning activities, such as internships, service learning, and robust engagement with our industry. b. Emphasizes career development and placement opportunities.c. Requires interaction between faculty, students, and industry inside and outside the classroom.

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1. The Department will develop a cooperative agreement with international universities serving our Construction Management graduates, and maintain a high quality Bachelor of Science program in Building Construction that will enable graduates to achieve their maximum potential in the building construction field.
2. The Department will broaden our graduates' horizons through local community based learning service projects and through international study abroad classes.
3. The Department will focus its resources on the continuing development of a construction management program of the highest quality in keeping with the needs of our dynamic industry.
4. The Department will offer degree programs that have relevance to the needs of the community in areas such as life-long learning, ethics, and professional development.
5. The Department will maintain an active presence through its partnerships in the northeast Florida community and surrounding region.
6. The Department will recruit and retain exceptional faculty and staff to ensure quality academic programs.
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## Program Educational Objectives

The Construction Management program produces graduates who:

- have the ability to understand and solve construction problems and think and reason logically to make sound economic decisions
- have the ability to communicate clearly and concisely, both orally and in writing
- know and uphold ethical standards of the industry
- are prepared for successful entry into the construction industry

The program consists of management-oriented technical curricula built on a balanced program of studies drawn from building construction, computer concepts, management, and general education requirements.

A graduate of this program can expect to find employment in the residential, commercial, heavy civil, or industrial construction industry. Typical employment positions include estimator, assistant project manager, assistant superintendent, field engineer, project manager or construction company manager.
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## Accreditation

The Construction Management program is accredited by the American Council for Construction Education through July, 2014.

## Admission

Minimum requirements for admission into the Construction Management Program include:

1. Admission to the University of North Florida
2. Completion of the minimum general education requirements from a State of Florida two-year community college or four-year university;
3. A minimum of 63 credit hours of college course work with an overall GPA of 2.0 or better;
4. Completion of all program prerequisites with a grade of "C" or better in each course.
```
Students will be admitted before all prerequisites have been completed. However, students must complete all lower-level prerequisites before any upper-level coursework may be attempted. [Go to top]
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The Construction Management Department provides individualized academic advisement to all its students. Students interested in the Construction Management major are required to meet with an academic advisor to:

1. Evaluate the student's course work to determine whether prerequisites for the major have been met and
2. Plan a program of study for the student to follow.

## Students are encouraged to make an advising appointment as early as possible to develop their program of study. This will enable them to progress in an efficient manner toward the completion of a degree.

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## Internship

All Construction Management students are strongly encouraged to take a one-semester internship. Students may elect to take an additional construction concentration track class to replace the internship requirement if necessary. In like manner, students may elect to complete a second internshipto replace one of the construction elective class requirements.

## Construction Industry

The Construction Management (CM) academic program is supported by various construction companies including:

APAC, Archer Western Contractors,Ltd., Ash Properties, Auld \& White Contractors, LLC, Barnard Construction, Barton Malow, Batson Cook, BE\&K, Brasfield and Gorrie, Danis Corporation, Elkins Constructors, Haskell, Hensel Phelps, Hubbard, Kiewit, Miller Electric, RJ Griffin, Sauer, Stellar, Superior, Whiting-Turner.

## Sponsored CM Scholarships

- Elkins Constructors, Inc.
- The Haskell Company
- Stellar
- American Society of Highway Engineers
- American Concrete Institute
- Miller Electric Company
- Retail Contractors Association
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## Graduation Requirements

The following are minimum requirements for the Bachelor of Science degree:

1. A minimum of 120 credit hours for the four-year program, which includes general education requirements plus the prerequisite and required courses;
2. Completion of the prerequisite and core requirements listed below with a grade of " $C$ " or better in each course;
3. Satisfactory completion of the general education program, prerequisites; and
4. At least 30 upper-level credit hours in residence at UNF.

## Students taking classes at other institutions in their graduation term may delay their

 graduation due to transcript timing issues.Effective January 1, 2009 all students prior to graduation must:

1. Sit for an approved construction exam e.g., AIC, Florida Contractor Exam. This will be coordinated through Capstone class BCN 4709.
2. Complete an exit survey.
3. Apply for graduation before deadline.

See website for graduation application deadlines
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## Construction Management Faculty

Mag Malek, Ph.D., Associate Professor \& Chair
David James Lambert, Ph.D., Associate Professor
John Dryden, Ph.D., Assistant Professor
Aiyin Jiang, Ph.D., Assistant Professor
Roberto Soares, Ph.D., Assistant Professor
Carol Woodson, Ph.D., Assistant Professor
James Sorce, MBA, Academic Advisor \& Instructor
April Somers, Office Manager
Department Location: Science and Engineering Building (Bldg 50), Room 2400
Department Phone: (904) 620-2683
Fax number: (904) 620-2573
Advising Office Location: Science and Engineering Building (Bldg 50), Room 2300 Advising Phone: (904) 620-2759

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## School of Computing

## John E. Mathews Jr Building (Building 15)

School of Computing, Room 3201
Phone: (904) 620-2985
Fax: (904) 620-2988
Web Address: www.unf.edu/ccec/computing/
Email: computing@unf.edu

## Bachelor of Science in Computing and Information Sciences

The School of Computing has primary responsibility for all computer-related instruction at UNF. For undergraduate students, the school offers the Bachelor of Science degree in Computing and Information Sciences with four separate programs:

- Computer Science Program, specializing in systems and scientific software
- Information Systems Program, emphasizing business application software with a business minor
- Information Science Program, emphasizing application software with a minor other than business chosen from the UNF catalog
- Information Technology Program, emphasizing planning, configuration and maintenance of computing infrastructure.

With all our programs, we expect our graduates to improve their communication skills, effectively collaborate, and conduct themselves professionally.

## Master of Science in Computing and Information Sciences

For graduate students, the school offers the Master of Science degree in Computing and Information Sciences with three separate programs:

- Computer Science Program, specializing in systems and scientific software
- Information Systems Program, emphasizing software development and business practice
- Software Engineering Program, emphasizing principles and techniques of software development.

These programs provide the opportunity for advanced study, laboratory work, and research in the computing field, to enhance graduate's opportunities for professional positions in industry or for further academic endeavors.

## Vision

The School of Computing seeks to provide a nationally and internationally recognized center of
learning in the computer and information sciences, focusing on application of state-of-the-art computer technology, and supporting regional aspirations to excel in computer-related enterprise. Led by its faculty, and represented by its students, the School seeks to provide an educational atmosphere both intellectual and practical, extending the frontiers of knowledge to the betterment of humankind.

## Mission

The School of Computing is dedicated to the promotion of an academically exciting and progressive intellectual climate, characterized by a superior program of instruction, peer-recognized scholarship, effective support services, and productive professional community involvement. In particular, the School is committed to offering undergraduate and graduate degree programs observing national standards, maintaining and expanding course offerings to keep pace with the rapid development of computer theory and computer technology. In recognition of its leadership position in the computer and information sciences, the School supports the need for instruction in computing as required by other University programs and advocates faculty participation in collaborative computer-related projects involving other professionals or colleagues. The vitality of the School is enhanced by encouraging ongoing faculty research and development, ultimately serving the instructional mission of the School and providing both Northeast Florida and the nation with a wellspring of knowledge and wisdom for the computer and information sciences.

## Values

The School of Computing recognizes its responsibility towards establishing and supporting a strong ethical standard for both personal and societal use of computer technology, characterized by integrity and professionalism, without sacrificing openness and innovation. Given the School 's role in the education of future leaders for the development of the computer-related applications, particular value is placed on providing an environment characterized by a strong sense of professional responsibility, understanding of the larger issues involved in making a functional society, sensitivity to the concerns deriving from ethnic or gender differences, appreciation for the cultural contributions of others, and awareness of the potential effect of one's personal and professional conduct on others. The School seeks to provide a supportive, sensitive, academic environment wherein students, faculty, and staff alike feel both their individual and collective importance to the School.

## Expectations

Students in the School of Computing expect faculty and staff:

- To be well prepared for class
- To manage class time wisely
- To provide thorough and prompt responses to questions and requests for information
- To have and enforce policies fairly and consistently
- To model civil behavior
- To model honest and ethical behavior (academic integrity)
- To assess/grade fairly and carefully
- To keep student grades and other personal information confidential
- To be sufficiently available through convenient office hours and technological sources of communication

The faculty and staff of the School of Computing expect students:

- To treat the instructor and other students in the class with respect, civility, and dignity
- To ask questions in good faith and in as clear a manner as possible
- Not to distract others in class
- To actively engage in class and School of Computing activities
- To turn work in on time
- Not to gossip about grades
- To make a conscientious effort at their work


## Advisory Council for Computer and Information Sciences (ACCIS)

This council is composed of approximately 25 persons from the business community who meet on a quarterly basis to advise the director on current industry trends in the computing and information

## sciences.

## Student Organizations

Faculty from the School sponsor student chapters of ACM, AITP, IEEE-CS and the Upsilon Pi Epsilon (UPE) Honor Society in the Computing Sciences. These organizations provide students with important professional contact groups in Jacksonville and throughout the national computing community. See the School of Computing web pages for more information.
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## School of Computing Faculty

## Location: John E. Mathews Jr Building (Building 15)

School of Computing, Room 3201
Phone: (904) 620-2985
Fax: (904) 620-2988
Web Address: www.unf.edu/ccec/computing/
Email: computing@unf.edu
Asai Asaithambi, Ph.D., Professor \& Director, School of Computing
Sanjay P. Ahuja, Ph.D., Professor
Yap S. Chua, Ph.D., Professor Emeritus
Neal S. Coulter, Ph.D., Professor and Dean Emeritus
Roger E. Eggen, Ph.D., Professor \& Director, Graduate Program
William Klostermeyer, Ph.D., Professor
Kenneth E. Martin, Ph.D., Professor
Robert F. Roggio, Ph.D., Professor
Charles N. Winton, Ph.D., Professor Emeritus
Sherif A. Elfayoumy, Ph.D., Associate Professor
Zornitza G. Prodanoff, Ph.D., Associate Professor
Behrooz Seyed-Abbassi, Ph.D., Associate Professor
Judith L. Solano, Ph.D., Associate Professor and Director Emerita
Karthikeyan Umapathy, Ph.D., Associate Professor
Ching-Hua Chuan, Ph.D., Assistant Professor
Katharine C. Brown, MBA., Senior Instructor \& Academic Advisor
Edwin G. Harris II, M.S., Instructor \& Academic Advisor
James Littleton, M.S., Visiting Instructor

## Affiliated Graduate Faculty

Richard Morin, Ph.D., F.A.C.R., Brooks-Hollern Professor, Mayo Medical School

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## Undergraduate Program Information

## Undergraduate Academic Policies

The College of Computing, Engineering, and Construction adheres to all academic policies and regulations of the University. In addition, the School of Computing has policies which apply to all
undergraduate students in the School of Computing.

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- Academic Advising
- Transfer Coursework
- Concurrent Coursework
- Directed Independent Study
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- Satisfactory Progress Policy
- Probation/Suspension Policy
- Honors in the Major

Individuals needing clarification of any of these policies, or an interpretation of how a policy might apply in a given situation, should contact the School office located in the Mathews Building, Building 15/Room 3201.

## Admission

Students seeking admission to the School of Computing must meet the general requirements of the University relative to admission. Students lacking any program prerequisites are encouraged to complete these courses as soon as possible to be on-track for a timely graduation.

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## Admission With Less Than 2.0 Graduate Point Average

Students who are admitted with less than the minimum 2.0 grade point average are placed on academic probation. Special conditions for admission are outlined by the director of the School, and students must meet these conditions in order to continue their studies in the School of Computing.
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## Academic Advising

When a student is admitted to the School of Computing, an advisor will prepare a degree evaluation (program of study) outlining the program requirements.

Students considering majoring in a computing program are strongly encouraged to meet with a School advisor as early as possible. Advising appointments for development of a personalized degree evaluation must be scheduled within the first semester of attaining junior status. Advising appointments are scheduled through the School office, (904) 620-2985.
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## Transfer Coursework

Students desiring to transfer upper-level course work to the School of Computing must have the work approved by an academic advisor. With approval, a maximum of 10 credit hours of upper-level transfer course work may be used in the student's program of study. Upper level course work completed more than five years prior to the beginning of continuous enrollment at UNF may not be applied toward the program unless validated. Continuous enrollment is defined as enrollment as a degree-seeking student and completion of one or more courses per term without a break of three consecutive terms.
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## Concurrent Coursework

Once a student is admitted to UNF, the student may not complete course work at another institution
for transfer to UNF without a School advisor's approval and completion of a Concurrent Enrollment Form with proper authorizations prior to starting the transfer courses. It is expected that once a student enrolls in the College of Computing, Engineering and Construction, he/she will complete all prerequisite and major courses at UNF.

Concurrent enrollment at another college or university is not allowed during a student's graduating semester.
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## Directed Independent Study

No more than six credit hours of directed independent study may be applied to a student's program of study. A maximum of three credit hours with the same Computing faculty member is allowed. All directed independent study proposals must be approved by the director of the School.

## Experiential Learning (Co-op)

No more than six credit hours of experiential learning (co-op) credit may be applied to a student's program of study. All co-op proposals must be approved by the director of the School. Co-op experiences are considered free electives and cannot be used as major or minor electives.
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## Satisfactory Progress Policy

The School enforces a "one repeat" rule for all prerequisite and core requirements taught by the School. Students who do not successfully complete a computing prerequisite or core requirement on the first attempt (i.e. earn a grade of D, F, W, WP or WF) have one chance to repeat the course. Students who do not successfully complete a computing prerequisite or core requirement within two attempts will not be permitted to register for computing courses in future semesters. This policy applies to majors and minors in the School of Computing.
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## Probation/Suspension Policy

An undergraduate student who fails to earn a cumulative or term GPA of 2.0 after attempting a cumulative total of 12 or more credit hours will be placed on academic probation. Academic probation is a warning. If both the term and cumulative GPA fall below 2.0 during the next term of enrollment, the student will be eligible for suspension. The School of Computing Suspension Review Committee (SRC) will determine the action to be taken in each case. If suspended, the student will be dropped from any courses currently registered and denied the opportunity to re-enroll. The duration of suspension varies in accordance with recommendations of the SRC. At a minimum, if suspended the student is not allowed to take coursework for one semester.

A suspended student who desires to be reinstated to the School must submit a Request for Reinstatement to the School of Computing. The request must be received at least two weeks prior to the University's admission deadline for the term the student intends to return. The Request for Reinstatement can be obtained from the School office. The SRC meets once a term to review requests. Recommendations of the SRC are submitted to the School director and College dean for final decision.
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## Honors in the Major Program

The Honors Program at UNF is designed for the student who is intellectually mature and seeks the challenge of academic work different from the traditional course of study. It offers students a close collegial relationship with the University's top professors and with each other. There are two types of honors programs at the University of North Florida. The lower level Honors Program is open to freshmen and sophomores.

The upper level "Honors in the Major" program is open to juniors and seniors in the School of Computing. A student does not have to be in the lower level Honors Program to enroll in the upper level "Honors in the Major" program.

The "Honors in the Major" program in the School of Computing includes experience with a faculty mentor, research experience, honors colloquium, and special recognition on the student's transcript and diploma.

Admission is competitive and limited to students with a cumulative GPA of 3.5 or better. More information on additional admission requirements and procedures for applying to the program can be obtained from a School of Computing Academic Advisor.

## Computer Science Program, B.S.

The Computer Science Program at the University of North Florida is accredited by the Computing Accreditation Commission (CAC) of ABET, http://www.abet.org.

This program is modeled according to the recommendations of the ACM (Association for Computing Machinery) and the IEEE-CS (Computer Society of the Institute for Electrical and Electronics Engineers). It emphasizes course work in computational structures, systems software, data structures, artificial intelligence, algorithms, data modeling, modeling and simulation, computer graphics, compilers, operating systems, interfacing, computer architecture, robotics, and other applications and theory.

Graduates will be prepared for careers in systems development and programming involving compiler, operating system and database design, modeling and simulation, artificial intelligence and robotics, computer graphics, computer architecture and interfacing, computer communications and scientific applications.

The Computer Science Program requires a strong background in mathematics and science, including calculus and calculus-based physics. It is recommended for those interested in the more technically and scientifically oriented areas of computing.

The Computer Science Academic Learning Compact articulates the program's educational objectives and outcomes.
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## Information Systems Program, B.S.

The Information Systems Program is accredited by the Computing Accreditation Commission (CAC) of ABET, http://www.abet.org.

This program follows the curriculum recommendations of the Association of Information Technology Professionals (AITP). The Information Systems Program combines computer course work with a complementary selection of business courses. The Information Systems Program is strongly recommended for those interested in business-oriented computer applications. The business minor is a required and integral component of the Information Systems Program.

Computer courses include systems analysis, systems implementation, computer communications, database processing, and other courses focused on implementation of computer solutions to business problems. Graduates will be prepared for careers as applications programmers, systems analysts, or information systems managers.

The Information Systems Academic Learning Compact articulates the program's educational objectives and outcomes.

The Information Science Program is accredited by the Computing Accreditation Commission (CAC) of ABET, http://www.abet.org.

This program is identical in computer course work to the Information Systems program; however, the student may select a minor from an area other than business administration. Depending upon the choice of a minor, graduates will be prepared for careers as systems programmers, applications programmers, systems analysts or other specialized computer-related professionals.

In addition to the computing course work, the Information Science Program requires studies in a minor area other than business administration. A minor consists of a planned selection of courses supportive of the major. Minors are described in the UNF catalog under the appropriate college. Courses applied toward the major may not be counted in the minor.

This major incorporates the same computing courses as the Information Systems Program and is only recommended for a student who has a strong interest in a secondary field other than business administration. It can also be used for a post baccalaureate student seeking a second bachelor's degree; as a minor is not required for a second bachelor's degree.

The Information Science Academic Learning Compact articulates the program's educational objectives and outcomes.
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## Information Technology Program, B.S.

The Information Technology Program is accredited by the Computing Accreditation Commission (CAC) of ABET, http://www.abet.org.

In an effort to meet the demands of an ever-changing technology market, the school offers a program in Information Technology with concentrations in Computer Networking, Mobile Computing, and Computer Security Administration. This program combines professional requirements with general education requirements and electives to prepare students for a career in the information technology field or for graduate work in Information Technology.

Students completing this program will be specialists ready to face high expectations of organizations with respect to planning, implementation, configuration, and maintenance of a computing infrastructure. They will be able to apply computing principles and concepts by participating in practical activities throughout the program. By selecting one of three available concentrations, students attain expertise in an area of growing demand.

The Information Technology Academic Learning Compact articulates the program's educational objectives and outcomes.
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## Graduate Program Information

## Graduate Academic Policies and Requirements

The College of Computing, Engineering, and Construction adheres to all academic policies and regulations of the University. In addition, the School of Computing has policies which apply to all graduate students in the School of Computing.

- Admission
- Program Requirements
- Academic Policies and Requirements

Individuals needing clarification of any of these policies, or an interpretation of how a policy might apply in a given situation, should contact the School office located in the Mathews Building, Building 15/Room 3201.

## Admission

In addition to satisfying general University of North Florida criteria for admission into a graduate program, students who wish to enter the degree program leading to the M.S. in Computer and Information Sciences must present:

1. GRE scores:

- Taken prior to July 1, 2011: composite score of 1000 (400 verbal, 600 quantitative) or higher,
- Taken after July 1, 2011: 144 verbal, 148 quantitative

2. A grade point average of 3.0 or higher in all work attempted as an upper level student, normally the 60 credit hours taken during the last two years of undergraduate study, and
3. An undergraduate degree supporting graduate study in one of computer science, information systems, or software engineering.

A student who does not have a degree in the field will need to complete preparatory course work with grades of "B" or above as a post-baccalaureate student before seeking admission into the graduate program. Such students may make an appointment with an advisor to develop a program of study to meet background preparation requirements in computer science, information systems, or software engineering as outlined below:

## Computer Science Preparation

- Computability (COT 3210 at UNF)
- Data Structures (COP 3530 at UNF)
- Systems Software (COP 3404 at UNF)


## Information Systems Preparation

- Object-Oriented Programming \& Data Structures (COP 3538 at UNF)
- Database Systems (COP 4720 at UNF)
- Financial Analysis (FIN 5405 at UNF)
- Management and Marketing (MAN 5036 at UNF)


## Software Engineering Preparation

- Object-Oriented Programming \& Data Structures (COP 3538 at UNF)
- Database Systems (COP 4720 at UNF)

Note: Each of the prerequisite courses listed has its own prerequisites.
A student who meets all admission requirements should apply for admission as a graduate student through the Graduate School at UNF, designating one of the following concentrations: computer science, information systems, or software engineering. When all transcripts and test scores have been received by the Graduate School, the completed application package is forwarded to the School of Computing where it is considered by the School's graduate committee for admission to computer science, information systems, or software engineering. Upon notification of admission to the graduate program, the student will be invited to meet with the graduate program director for preparation of a program of study.

Note: All applications, transcripts, test scores, and supporting documents must be sent directly to The Graduate School, University of North Florida, 1 UNF Drive, Jacksonville, FL 32224.
For complete details on graduate admission, refer to the UNF Graduate School's webpages.
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## Program Requirements

The degree candidate is required to complete 30 credit hours of course work and a master's thesis (at least 6 credit hours), prepared according to School and University guidelines. The thesis requires
a significant literature review and the application, synthesis, and/or extension of the knowledge gained, in such as way as to enhance the discipline of the computing sciences. A supporting programming project may be undertaken to the extent that it provides insight or data for subsequent research. The overall effort is to be research-oriented or have a unique and specific application.

## Academic Policies and Requirements

1. All courses taken for credit towards the master's degree must be on an approved program of study developed with the graduate program director.
2. A total of 36 credit hours of approved 5000 and 6000 level courses must be completed.
3. A minimum of 21 credit hours at the 6000 level must be taken within the School (includes 6 credit hours of CIS 6970, thesis).
4. With the prior approval of the graduate program director, the program of study may include up to two directed independent studies, each one taken with a different faculty member.
5. Up to 6 credit hours may be transferred in or taken from other colleges within the University or through FEEDS with prior approval of the graduate program director.
6. Generally, courses applied to the program of study must be completed with a grade of " $B$ " or above. However, one course with grade of "C" may be applied to the program of study, provided the student's GPA does not fall below a 3.0. A course may be repeated no more than once, with the exception of CIS 6970 (thesis).
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## Computer Science Program, M.S.

The Computer Science Program for the M.S. in Computer and Information Sciences is designed to add breadth and depth to a typical bachelor's degree program in computer science. Breadth must be demonstrated in the areas of computer networks, operating systems, algorithms, and databases. Depth must be accomplished in the areas of graphics/interfaces, networks, advanced systems, and data/language paradigms. Overall mastery of the discipline is demonstrated by submission of a master's thesis.

An academic background in Computer Science is required for entry into the program. Grades of "B" or above are expected in any preparatory course work taken at UNF.
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## Information Systems Program , M.S.

The Information Systems Program for the M.S. in Computer and Information Sciences is designed to build upon a bachelor's degree program in information systems that has substantial content in both software development and business practice. Technical core content provides hands-on software engineering that addresses software life-cycle, database engineering, and project management issues. Business core content is oriented towards e-commerce issues in management, marketing, and finance. Additional technical coursework in software engineering assures depth in one or more additional subject areas. Overall mastery of the discipline is demonstrated by submission of a master's thesis.

An academic background in Information Systems is required for entry into the program. Grades of " B " or above are expected in any preparatory course work taken at UNF.
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## Software Engineering Program, M.S.

The Software Engineering Program for the M.S. in Computer and Information Sciences is designed to build upon a CIS bachelor's degree program, which has substantial content in software development. Core content for the program emphasizes hands-on software engineering as practiced in this day and time. Additional coursework in software engineering assures depth in one or more subject areas. Experience in the practice of software engineering is emphasized by participation in a "real-world" supervised group project. Overall mastery of the discipline is demonstrated by
submission of a master's thesis.
An academic background that includes software development principles and techniques is required for entry into the program. Grades of " B " or above are expected in any preparatory course work taken at UNF.

## Accelerated BS/MS Computer Science Program

The School of Computing offers an accelerated program which allows students to obtain both Bachelor's and Master's Degrees in Computer Science in as little as 5 years.

Committed students who are academically motivated can take advantage of this program of study. This program requires a strong background in mathematics and science, including calculus and calculus based physics.

Unique Program Characteristics:

- Students interested in the program can begin taking core computer science classes (3000level) as early as the first semester of their second year.
- A maximum of 15 credits of approved coursework can be applied toward both degrees.
- Upon completion of the program ( 141 credits) students will be awarded both their BS and MS degrees.


## Selective Admission:

- You must apply to the School of Computing for acceptance into this accelerated program during the term in which you will complete the 3000-level computer science required courses, and have at least 60 credit hours towards your BS degree.
- You must have earned an "A" in at least 3 of the 3000 -level required computer science classes, and no less than a " B " in 3 other 3000-level required computer science classes.

Transition to Graduate Program:

- Prior to earning 120 credit hours, you must successfully complete the General Record Exam (GRE ) with a total verbal and quantitative score of 1000 or higher.
- You must apply through admissions for acceptance into the graduate computer science program as well as having your GRE scores submitted.

Meet with a School of Computing academic advisor early in your first year at UNF to develop a schedule that will prepare you for admission to this program.


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## School of Engineering

## Science and Engineering Building (Building 50)

School of Engineering, Room 2500
Phone: (904) 620-1390
Fax: (904) 620-1391
Web Address: www.unf.edu/ccec/engineering
The profession of engineering requires highly educated men and women dedicated to the betterment of society through technological innovation and creative problem solving. The faculty of the School of Engineering (SoE) offers accredited programs in Civil Engineering, Electrical Engineering, and Mechanical Engineering to meet an ever-increasing demand. Our programs are noted for first-rate classroom instruction, hands-on laboratory experiences, and extensive design project opportunities. Students may also participate - often in paid positions - in research projects with faculty mentors. Numerous cooperative education opportunities are also available to students wishing to gain practical experience before graduation.

Applications for the major should be made through the University Admissions Office in UNF Hall, Building 53. Application should be made at least two months before the planned enrollment in any engineering program courses. All engineering majors are advised through the school office.

The engineering profession is enriched by a large number of professional organizations and many have student chapters at UNF. Students are encouraged to participate in activities of these chapters, including the following:

- American Society of Civil Engineers (ASCE)
- Institute of Electrical and Electronic Engineers (IEEE)
- American Society of Mechanical Engineers (ASME)
- Society of Automotive Engineers (SAE)
- Florida Engineering Society (FES)
- Society of Women Engineers (SWE)
- American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE)
- National Society of Black Engineers (NSBE)
- Florida Water Environment Association (FWEA)
- American Society of Highway Engineers (ASHE)
- Society of Hispanic Professional Engineers (SHPE)
- Florida Structural Engineers Association (FSEA)
- American Water Resources Association (AWRA)


## Vision

The UNF School of Engineering aspires to:
provide undergraduate programs that are among the best in the country

- produce high quality research through undergraduate and graduate programs
- make significant contributions to the economic vitality in Northeast Florida
- inspire many students in k-12 education in Northeast Florida and beyond to pursue engineering as their profession of choice.


## Mission

To provide diverse learning opportunities in the technical and professional aspects of engineering that prepare all participants to thrive in an evolving world.

## Values

We, in the School of Engineering, use the following values as our guiding principles in how we conduct ourselves:

- Integrity: We are transparent in all our academic dealings. We are accountable to our students, employers of our students and the citizens of Florida for achieving our goals while protecting our reputation and intellectual assets. We own successes in our school as well as failures.
- Respect: We provide a safe and healthy environment for students. We treat all people with dignity and respect. We value the differences in people's thinking, backgrounds and cultures. We are committed to everyone's development.
- Challenge: We continuously search for new, innovative and better ways of doing things, continually improving. We develop and nurture new ideas, new services. We challenge the status quo and collaborate to achieve rigorous educational and institutional goals.
- Commitment: We are committed to serving the educational needs of our students and our constituents. We ask what we can do to help each other succeed.
- Courage: We have the personal and professional courage to do the right thing, take occasional risks and experiment with new methods and ideas. We make decisions and take actions as a group. We do not admonish failure, only failure to learn.
- Citizenship: We are good global, local and national citizens. We strive to contribute significantly and measurably to Northeast Florida and beyond. We participate in efforts to make the world we live in a better place.
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## Transformational Learning Opportunities

All undergraduate engineering programs in the UNF School of Engineering are transformational this is the very nature of an engineering education at UNF. However, in addition to a rigorous, focused curriculum students have multiple opportunities to participate in significant research projects, regional and national design competitions, international travel and study, community and international outreach activities, student chapter leadership, cooperative education experiences, and internships.

## Academic Advising

Once admitted to an engineering program advising is conducted through the School of Engineering office (room 2500, Building 50). Initially, the SoE academic advisor assigns a faculty advisor and prepares a program of study outlining all graduation requirements. Thereafter, the student meets each semester with the academic and faculty advisors to develop a course schedule and track progress through the degree program.
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## School of Engineering Faculty

Murat Tiryakioğlu , Ph.D., C.Q.E., Professor \& Director, School of Engineering (904) 620-1390; Fax (904) 620-1391

## Civil Engineering

Nick W. Hudyma, Ph.D., P.E., Professor
N. Michael Jackson, Ph.D., P.E., Professor

Donald Resio, Ph.D., Professor \& Director, Taylor Engineering Research Institute
Mark A. Tumeo, Ph.D., P.E., J.D., Dean, College of Computing, Engineering and Construction
William Dally, Ph.D., P.E., Associate Professor
Adel El-Safty, Ph.D., P.E., Associate Professor
Thobias Sando, Ph.D., P.E., Associate Professor
Peter Bacopoulos, Ph.D., Assistant Professor
Chris Brown, Ph.D., P.E., Assistant Professor

## Electrical Engineering

Chiu H. Choi, Ph.D., P.E., Professor
Alan Harris, Ph.D., Associate Professor
Juan Aceros, Ph.D., Assistant Professor
O. Patrick KreidI, Ph.D., Assistant Professor

Ujjal Bhowmik, Ph.D., Visiting Assistant Professor

## Mechanical Engineering

Daniel J. Cox, Ph.D., Professor
Murat Tiryakioğlu, Ph.D., C.Q.E., Professor
Paul D. Eason, Ph.D., P.E., Associate Professor
James H. Fletcher, Ph.D., Associate Professor
Alexandra Schönning, Ph.D., Associate Professor
John Nuszkowski, Ph.D., Assistant Professor
Richard V. Conte, Ph.D., P.E., Senior Instructor \& Academic Advisor

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## Undergraduate Program Information

## Civil Engineering Program

Civil engineers design the built environment - the structures, roads, water supply systems, and much more - that surrounds us. The profession is broad and encompasses several technical areas including structures, transportation, geotechnics, water resources and environmental protection.

Employment opportunities are plentiful in design, construction, management, teaching, and research. Employers include consulting firms, industrial companies, and government agencies and non-governmental organizations. The UNF Office of Career Services provides information on companies seeking civil engineering graduates for permanent positions or current students for employment in cooperative education positions.

## Accreditation

The Civil Engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

## Program Educational Objectives

UNF Engineering graduates will:

- have sound engineering fundamentals.
- have strong team and leadership skills.
- have strong problem solving skills.
- demonstrate an ability to learn and advance.
- demonstrate effective communication skills.


## Program Outcomes

Graduates of the BSCE Program have:

- an ability to apply knowledge of mathematics, science, and engineering;
- an ability to design and conduct experiments, as well as analyze and interpret data;
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
- an ability to function on multi-disciplinary teams;
- an ability to identify, formulate, and solve engineering problems;
- an understanding of professional and ethical responsibility;
- an ability to communicate effectively;
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- a recognition of the need for, and an ability to engage in, life-long learning;
- a knowledge of contemporary issues;
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice;
- apply knowledge of mathematics through differential equations, calculus-based physics, chemistry, and at least one additional area of basic science, consistent with the program educational objectives
- apply knowledge of four technical areas appropriate to civil engineering
- conduct civil engineering experiments and analyze and interpret the resulting data
- design a system, component, or process in more than one civil engineering context
- explain basic concepts in management, business, public policy, and leadership
- explain the importance of professional licensure.


## Civil Engineering Admission Prerequisites

Formal admission to the civil engineering degree program at UNF occurs after the completion of program prerequisites. Admission is based primarily on the student's grades in both the calculus and physics sequences. A grade of $\mathrm{C}+$ or higher is required in the calculus and physics courses. Grades of $C$ or better are required in all other engineering prerequisite courses.

## Major Requirements

The Civil Engineering program requires 128 credit hours.
In addition to 50 credits of Common Engineering Prerequisites and 68 credits of program requirements, the remaining 10 credits of lower division coursework are used to satisfy the

## Electrical Engineering Program

Electrical engineers harness electrical energy for the benefit of humankind. The profession is broad and encompasses products valued by society in many technical areas from communications to electric power and energy use to those for our current "Information Age."

Employment opportunities range over product design, development, manufacturing, sales, management, teaching, and research. Employers include industrial companies, consulting firms, and government agencies and non-governmental organizations. The UNF Office of Career Services provides information on companies seeking electrical engineering graduates for permanent positions or current students for employment in cooperative education positions.

The School of Engineering offers a Bachelor of Science in Electrical Engineering (BSEE) with either computer design or system design options, and a minor in electrical engineering.

## Accreditation

The Electrical Engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

## Program Educational Objectives

UNF Engineering graduates will:

- have sound engineering fundamentals.
- have strong team and leadership skills.
- have strong problem solving skills.
- demonstrate an ability to learn and advance.
- demonstrate effective communication skills.


## Program Outcomes

Graduates of the BSEE Program have:

- an ability to apply knowledge of mathematics, science, and engineering;
- an ability to design and conduct experiments, as well as analyze and interpret data;
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
- an ability to function on multi-disciplinary teams;
- an ability to identify, formulate, and solve engineering problems;
- an understanding of professional and ethical responsibilities;
- an ability to communicate effectively;
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- a recognition of the need for, and ability to engage in, life-long learning;
- a knowledge of contemporary issues;
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice;
- an ability to apply probability and statistics in the analysis and design
- an ability to analyze and design complex electrical and electronic devices, software, and systems containing hardware and software components
- an ability to apply advanced mathematics, such as differential equations, linear algebra, complex variables, and discrete mathematics, in the analysis and design of electrical/electronic systems, components, or processes
- an ability to apply differential and integral calculus and calculus-based sciences in the


## Electrical Engineering Admission Prerequisites

Formal admission to the electrical engineering degree program at UNF occurs after the completion of program prerequisites. Admission is based primarily on the student's grades in both the calculus and physics sequences. A grade of $\mathrm{C}+$ or higher is required in the calculus and physics courses. Grades of $C$ or better are required in all other engineering prerequisite courses.

## Major Requirements

The Electrical Engineering major requires 128 credit hours.
In addition to 50 credits of Common Engineering Prerequisites and 65 credits of program requirements, the remaining 13 credits of lower division coursework are used to satisfy the remaining three credits of the English General Education requirements, COP 2220 Computer Science I, EGN 3311 Statics, Intro to Engineering I and Intro to Engineering II.
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## Mechanical Engineering Program

Mechanical engineering is concerned with energy and its transformations and the design of objects and structures that move. Mechanical engineers are responsible for conceiving, designing, manufacturing, testing, and marketing devices and systems that alter, transfer, transform and utilize the energy form that ultimately causes motion.

Employment opportunities range over product design, development, manufacturing, sales, management, teaching, and research. Employers include industrial companies, consulting firms, and government agencies and non-governmental organizations. The UNF Office of Career Services provides information on companies seeking mechanical engineering graduates for permanent positions or current students for employment in cooperative education positions.

## Accreditation

The Mechanical Engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

## Program Educational Objectives

UNF Engineering graduates will:

- have sound engineering fundamentals.
- have strong team and leadership skills.
- have strong problem solving skills.
- demonstrate an ability to learn and advance.
- demonstrate effective communication skills.


## Program Outcomes

Graduates of the BSME Program have:

- an ability to apply knowledge of mathematics, science, and engineering;
- an ability to design and conduct experiments, as well as analyze and interpret data;
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
- an ability to function on multi-disciplinary teams;
- an ability to identify, formulate, and solve engineering problems;
- an understanding of professional and ethical responsibilities;
- an ability to communicate effectively;
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- a recognition of the need for, and ability to engage in, life-long learning;
- a knowledge of contemporary issues;
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice;
- an ability to apply principles of engineering, basic science, and mathematics (including multivariate calculus and differential equations)
- an ability to model, analyze, design, and realize physical systems, components or processes
- a preparation to work professionally in both thermal and mechanical systems areas.
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## Mechanical Engineering Admission Prerequisites

Formal admission to the mechanical engineering degree program at UNF occurs after the completion of program prerequisites. Admission is based primarily on the student's grades in both the calculus and physics sequences. A grade of $C+$ or higher is required in the calculus and physics courses. Grades of C or better are required in all other engineering prerequisite courses.

## Major Requirements

The Mechanical Engineering program requires 128 credit hours.
In addition to 50 credits of Common Engineering Prerequisites and 65 credits of program requirements, the remaining 13 credits of lower division coursework are used to satisfy the remaining three credits of the English General Education requirements, COP 2220 Computer Science I, EGN 3311 Statics, Intro to Engineering I and Intro to Engineering II.
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## Graduate Program Information

## Mission

The mission of the School of Engineering Master of Science Programs is to prepare students to function in a demanding technical environment where their advanced engineering education will allow them to solve substantial problems in their field of expertise. Through our commitment to engineering application and research and encouraging students to participate in such activities we will provide opportunities for expanded content knowledge and development of critical thinking skills inside and outside of classroom settings. Students graduating with an M.S. in Civil, Electrical, or Mechanical Engineering will receive the education that allows them to pursue a doctoral degree.

## Learning Outcomes

## Content/Discipline Specific Knowledge

- Upon program completion, students will:
- be able to apply advanced engineering techniques to identify and solve technical problems.


## Knowledge of the Literature of the Discipline

- Upon program completion, students will:
- be able to conduct literature review on a topic relevant to the area of study and to condense such review into a cohesive essay.
- Upon program completion, students will:
- be able to form conclusions and recommendations of results obtained through advanced engineering analyses, modeling, and/or experimentation.


## Demonstration of intermediate to advanced level Professional Skills

- Upon program completion, students will:
- be able to communicate technical data, analyses, and conclusions to a technical audience.


## Outcomes Assessment

The learning outcomes listed above involve depth of knowledge within a specific area of the student's chosen engineering discipline, critical thinking ability, and communications skills. These outcomes are achieved by the successful completion of a cohesive program. Students choose to either complete a thesis (thesis option) or take additional courses approved by the program (nonthesis option). The master's thesis is an original work that adds to the understanding of an engineering problem. It requires the deep knowledge and critical thinking skills developed in the program of study to advance engineering knowledge or solve an engineering problem. The successful completion of a thesis requires well-developed writing and oral communications skills. This capstone experience in conjunction with successfully completed course work measures the outcomes enumerated above for the students choosing the thesis option. Students choosing the non-thesis option will complete additional course work in place of the thesis to further deepen their understanding of the engineering discipline. Successfully completed course work measures the outcomes enumerated above.

## Graduate Admission

## Special Notes about the program:

Applicants must have earned a baccalaureate degree in Civil, Electrical, or Mechanical Engineering from an ABET-accredited program or its demonstrable equivalent to be admitted into the Civil, Electrical, or Mechanical programs, respectively.

## University requirements:

1. A baccalaureate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution with a GPA of 3.0 or higher in all work attempted in the last 60 credit hours of undergraduate study.

## Additional program requirements:

1. Official transcripts from all attended institutions
2. GRE scores

- Prior to July 1, 2011: 380 verbal, 630 quantitative score
- After July 1, 2011: 145 verbal, 150 quantitative

3. Three letters of recommendations

- At least one letter must come from a professor at the applicant's undergraduate institution

TOEFL (Test of English as a Foreign Language) minimum requirements are as follows for applicants from non-English speaking countries:

- 550 paper-based test, or
- 213 computer-based test, or
- 80 internet-based test
program capacity or academic discretion. Likewise, students may be considered for admission as an exception if stated admissions criteria are not met.

For complete details on graduate admission, refer to the UNF Graduate School's webpages for:

- Civil Engineering
- Electrical Engineering
- Mechanical Engineering


## General Requirements

MS Engineering Requirements: ( 30 credit hours)
The Engineering master's degree consists of a minimum of 30.0 credit hours.
Students select from one of two degree options: (1) thesis or (2) non-thesis.
**All programs of study must be approved by the School of Engineering Graduate Program Director prior to the end of the second semester of graduate study.**

UNF Conditions for the degree:
For more details on the below and additional conditions, please refer to the UNF Graduate School's webpage: http://www.unf.edu/graduateschool/.

1. A GPA of 3.0 must be maintained. If the GPA falls below 3.0, probation will result.
2. At least 18.0 hours of coursework at the 6000 -level must be applied toward the degree.
3. All coursework for a graduate or post-baccalaureate professional degree must be completed within six years of a master's degree-seeking student being admitted to a graduate program. All exceptions must be approved by the student's Graduate Program Director and the Dean of the Graduate School.

## School of Engineering Conditions for the degree:

1. All coursework must be completed with a grade of 'C' or better.
2. A GPA of 3.0 must be maintained. If the GPA falls below 3.0 , academic probation will result.
3. A No more than 6.0 hours of transfer coursework can be applied to the degree, with the following exception:
A student may transfer up to 12 credit hours from online graduate courses taken within the Florida State University System, provided that the total of all transferred courses does not exceed 12 credit hours.
4. A student may not receive 5000 -level credit for a cross-listed $4000 / 5000$-level course previously completed at the 4000-level. Exceptions to this rule may be considered with documented evidence of significant and appropriate differences in content between the courses.

## Student Graduate Advisor and Graduate Committee

Each graduate thesis student will need a graduate advisor. This advisor should be chosen based on the student's area of interest and the faculty member's area of expertise. The program of study should list the graduate advisor no later than by the end of the second semester of graduate study. Before a graduate advisor is chosen, the School of Engineering graduate program director will serve as the graduate advisor. The graduate advisor must be a member of the Graduate Faculty and a tenure-track or tenured professor in the appropriate engineering program. The graduate advisor and student will choose a supervisory committee that will be made up of two tenure-track or tenured UNF engineering professors in the student's chosen discipline and members of the Graduate Faculty, and one outside member who must be a tenure-track or tenured professor at UNF or other regionally accredited academic institution. Additional members may be added from industry or affiliated faculty in the School of Engineering, if approved by the graduate advisor. The graduate advisor will serve as chair of the committee. The graduate advisor also approves the selection of the thesis.

Each graduate non-thesis student is advised to have a graduate advisor in the student's field of study. The School of Engineering Graduate Program Director will serve as the advisor for those students who have not yet selected a Graduate Advisor in their field of study.

## Thesis Option

The master's thesis is an original work that adds to the understanding of an engineering problem. The supervisory committee approves the thesis topic. Completion of a thesis is an intense experience and most students will find that much of their academic effort for at least two semesters will focus on its completion. The thesis is presented at an oral defense that includes the supervisory committee and others from the university community. The supervisory committee determines if the defense was successful and the thesis is acceptable.
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## Master of Science in Civil Engineering (MSCE)

The program of study consists of 30 credit hours. All programs of study must be approved by the graduate program director before the end of the second semester of graduate study. Programs of study may be modified with the approval of the graduate program director. All programs of study must contain at least 18 credits of 6000 -level courses (including thesis credits, if applicable).
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## Master of Science in Electrical Engineering (MSEE)

The program of study consists of 30 credit hours. While there are no formal tracks or concentrations in the MSEE program, the program of study generally focuses on communications, computer, or controls and signal processing. All programs of study must be approved by the graduate program director before the end of the second semester of graduate study. Programs of study may be modified with the approval of the graduate program director. All programs of study must contain at least 18 credit hours of 6000 -level courses (including thesis credits, if applicable).
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## Master of Science in Mechanical Engineering (MSME)

The program of study consists of 30 credits. While there are no formal tracks or concentrations in the MSME program, the program of study generally focuses on the machine sciences or thermofluids areas of mechanical engineering. All programs of study must be approved by the graduate program director before the end of the second semester of graduate study. Programs of study may be modified with the approval of the graduate program director. All programs of study must contain at least 18 credits of 6000-level courses (including thesis credits, if applicable).


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of opportunity. Ethical educators view themselves and others as valued members of a learning community. They model professional integrity.

Active reflection on professional practice means that educators and other helping professionals are committed to professional renewal, self-assessment, and life-long learning. Programs and experiences encourage professionals to engage in reflective practice and self-assessment, take informed risks, and participate in the change process.

Educators who value diversity are prepared to acquire and apply the tools, content, technology, and strategies needed to assure that all students realize their full potential. They work in partnerships among post-secondary institutions, community agencies, and P-12 schools with the goal of improving learning.

## Accreditation

## The Teacher Education Unit at the University of North Florida is accredited by:

- National Council for Accreditation of Teacher Education (NCATE) 2010 Massachusetts Avenue NW, Suite 500
Washington, DC 22036
Telephone Number (202) 466-7496


## Programs in Education are accredited and approved by the following:

- Council for Accreditation of Counseling and Related Educational Programs (CACREP)
- Council on Education of the Deaf (CED)
- Florida Department of Education (FDOE)



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# Department of Childhood Education, Literacy and TESOL 

- Bachelor of Arts in Education
- Master of Education in Elementary Education


## Bachelor of Arts in Education

Web Address: http://www.unf.edu/coehs/celt/
The Department of Childhood Education, Literacy and TESOL's (CELT) mission is to train knowledgeable teachers and related professionals who are effective in creatively meeting the needs of pre-kindergarten through sixth-grade children in a range of school and community settings including a focus on working in urban schools. The department is committed to developing professional educators who are guided by rigorous standards-based curriculum, and who are innovative, technologically savvy, reflective, ethical, and culturally responsive. The department prides itself in working closely with its public school and community partners to provide pre-service teachers with a range of supervised field experiences which offer opportunities for authentic learning, critical thinking, research, and service.

The Department of Childhood Education, Literacy, and TESOL offers undergraduate programs in the following areas:

- Pre-Kindergarten - Primary Education (age 3 - grade 3)
- Elementary Education (grades K - 6)

The Department of Childhood Education, Literacy and TESOL (CELT) has as its objectives the development of specified competencies needed for effective classroom performance. Laboratory and field experiences of increasing complexity are required and are correlated with theoretical components, providing an opportunity to apply information gathered in the program. Instructional techniques used by the department faculty will include those methods the students are expected to learn.

While CELT has specific prerequisite courses, students are expected to be able to demonstrate communication skills throughout the program. In addition to this, students will be expected to demonstrate mastery of learning in mathematics, science, and social sciences within appropriate parts of the program. Further, students are expected to demonstrate behaviors and dispositions commensurate with established standards for professional educators, including the Florida Educator

Persons seeking certification to teach in schools should follow the prescribed admission requirements for the College of Education and Human Services. A grade of " C " or better is required of all upper- and lower-level courses in order for those courses to be applicable to the program of study or used as prerequisites. Additionally, an overall GPA of 2.5 and passing scores on all parts of the Florida Teacher Certification Exam (FTCE) are required for graduation.

The State of Florida mandates certification requirements for teachers. Students should see their academic advisors frequently to obtain appropriate advisement for current certification requirements.

The Department of Childhood, Literacy and TESOL is also offering a minor in Early Childhood Education.

- Minor in Early Childhood Education
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## Master of Education in Elementary Education

The Department of Childhood Education, Literacy, and TESOL's graduate programs assist learners in developing personal and professional competencies needed for successful instruction in today's public schools. This goal is achieved through programs emphasizing individually meaningful instruction, the use of innovative materials, and the application of theoretical concepts in laboratory and clinical experiences.

The department offers a wide array of graduate studies for teachers and other educational professionals. In meeting those diverse needs, the department offers three categories of studies at the graduate level.

## Category I-Master's Degree Programs for Teachers with Professional Certificates

Programs for certificated teachers who desire to extend their professional skills and knowledge leading to the awarding of a master of education degree are the primary means for pursuing graduate study within the department. The central mission of these programs is to extend and enhance the instructional expertise of the professional teacher. These programs make provisions for "add-on" endorsements to the initial teaching certificate and expand the teacher's certified areas of instruction. The areas of M.Ed. in Elementary Education include the concentrations of P-12 TESOL and Literacy.

## Category II - Master's Degree Programs for Uncertified Post-baccalaureate Students

These programs are for graduate students who do not hold professional teaching certificates but who wish to obtain a master of education degree. The areas of the M.Ed. in Education include the concentration of the Professional Education and P-12 TESOL with various options of specialization including: Early Childhood, Prekindergarten/Primary, Elementary, Technology, and Literacy.

## Category III - Non-degree Studies that Lead to a Certificate

These studies are content focused programs that lead to certificates awarded by the University of North Florida. A baccalaureate degree from an accredited institution, either in education or a noneducation related field, is required to pursue the certificates. It should be noted that traditional types of financial aid are not available for certificate programs.

The Graduate Certificate in Early Childhood Education (ECE) emphasizes the professional preparation of students at the graduate levels for a range of careers in early childhood education (children ages 0-8) within diverse community contexts. The completion of six Early Childhood Education graduate courses provides preparation for working with young children and their families and communities. This program prepares candidates for a highly specialized role and offers a dynamic combination of state-of-the-art theoretical courses and practical application of learning in field education.

The Graduate Certificate in Teachers of English to Speakers of Other Languages (TESOL)
provides students with advanced knowledge in the education of ELLs (English Language Learners) of any age. The completion of six TESOL graduate courses awards a candidate a TESOL certificate from the University of North Florida, and qualifies a candidate to apply for ESOL (English for Speakers of Other Languages) endorsement to be added on his/her existing Florida teacher's certificate. Coursework covers the ESOL domains of linguistics, assessment, culture, methods, and curriculum.

- Master of Education in Elementary Education/Professional Education
- Master of Education in Elementary Education/Literacy
- Master of Education in Elementary Education/TESOL


## Admission requirements:

1. A baccalaureate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution with a grade point average of 3.00 (B) or higher in all course work attempted as an upper division student, normally the 60 semester hours taken during their final two years of baccalaureate study, or
2. An earned graduate degree from a regionally accredited U.S. Institution or its equivalent from a foreign institution.

## Additional requirements:

## Master of Education Elementary Education/Professional Education:

1. Scores of 153 on the Verbal Reasoning and 144 on the Quantitative Reasoning portions of the Graduate Record Examination (GRE) or a 3.0 GPA for the last 60 hours of undergraduate study
2.Three letters of recommendation

## Master of Education Elementary Education/Literacy

1. Scores of 153 on the Verbal Reasoning and 144 on the Quantitative Reasoning portions of the Graduate Record Examination (GRE) or a 3.0 GPA for the last 60 hours of undergraduate study
2. A copy of a valid Florida Teaching Certificate or Statement of Eligibility
3. Three letters of recommendation

Master of Education Elementary Education/TESOL

1. Letter/statement of intent


## Department of Childhood Education, Literacy and TESOL Faculty

## Undergraduate

Ronghua (John) Ouyang, Professor and Chair Wanda Hedrick, Professor
Candice Carter, Associate Professor
Nile Stanley, Associate Professor
Christine Weber, Associate Professor
Katrina Hall, Associate Professor
Lunetta Williams, Associate Professor
Jin-Suk Byun, Assistant Professor
Kim Cheek, Assistant Professor
Elizabeth Fullerton, Assistant Professor
Katie Monnin, Associate Professor
Stacy Keller, Assistant Professor
Georgina David, Visting Assistant Professor
Lena Shaqareq, Visiting Instructor
Catherine McMurria, Visiting Professor

## Graduate

Ronghua (John) Ouyang, Ph.D., Professor \& Chair
Wanda Hedrick, Ph.D., Professor
Candice Carter, Ph.D., Associate Professor
Nile V. Stanley, Ph.D., Associate Professor
Christine Weber, Ph.D., Associate Professor
Katrina Hall, Ph.D., Associate Professor
Lunetta Williams, Ph.D., Associate Professor
Jin-Suk Byun, Ph.D., Assistant Professor
Katie M. Monnin, Ph.D., Associate Professor
Stacy Keller, Ph.D., Assistant Professor
Kim Cheek, Ph.D., Assistant Professor
Elizabeth Fullerton, Ph.D., Assistant Professor

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# Department of Exceptional, Deaf and Interpreter Education 

- Bachelor of Arts in Education
- Bachelor of Science in American Sign Language/English Interpreting
- Master of Education in Special Education
- Special Education Concentrations (Graduate Level)


## Bachelor of Arts in Education

Web Address:http://www.unf.edu/coehs/edie/
The undergraduate program in exceptional student education prepares teachers with competencies necessary to produce achievement gains and desirable behavior changes in students with disabilities. Successful completion of the courses of study prepares the student for the certification exams in (ESE) exceptional student education. Students graduating in ESE are required to be certified in another content area such as PreK/Primary, Elementary Education K-6, Middle Grade, or the Secondary Education disciplines in order to be consider highly qualified.

Exceptional, Deaf and Interpreting Education also offers a concentration in deaf studies. Deaf studies is a five-year program in which students complete certification in deaf education at the master's degree level. Teacher education candidates must pass all parts of the Florida Teacher Certification Exam as an internship and graduation requirement. Please note: Unlike Special Education, Deaf Education/Deaf Studies is NOT an ESOL degree program.

All courses have field assignments. Students are expected to be proficient in the use of the computer for word processing and Internet access.

The program is blocked sequentially with some courses being offered once a year only; therefore, students are requested and encouraged to enter in the fall term. Before beginning course work, students must consult an advisor in the Office of Academic Advising, Bldg. 57, Room 1070. (904) 620-2530.

The state of Florida mandates certification requirements for teachers. Students should see their advisors frequently to obtain appropriate advisement for current certification requirements. All students enrolled in College of Education and Human Services courses that require a field or clinical component are taught at a school site or require the student to complete work at a school mandated by state law to be fingerprinted and cleared prior to being permitted on elementary and secondary school campuses. Students should be aware that noncompliance with fingerprinting requirements will result in the inability to complete course requirements. Contact the Office of Educational Field Experiences for information regarding fingerprinting procedures.

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## Bachelor of Science in ASL/English Interpreting

Students may also prepare for a B.S. degree in ASL/English Interpreting. Students seeking to complete the B.S. in ASL/English Interpreting must complete their first two years of interpreting at an accredited and approved ASL/English Interpreting program; usually culminating in an A.S. degree and then transferring to UNF for their final two years.

- Bachelor of Science: ASL English Interpreting

The Department of Exceptional, Deaf and Interpreter Education offers a minor in:

- American Sign Language / Deaf Studies

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## Master of Education in Special Education

The graduate program in special education prepares graduate students to assume positions as professional practitioners who work with exceptional individuals. The majority of these practitioners become teachers in self-contained classes or resource rooms, while others serve in positions such as consulting teacher, behavior analyst, parent-infant specialist, or sign language interpreter. Practitioners may serve individuals with special needs ranging from preschool through adulthood. Additionally, they may work with the families of individuals with special needs.

The graduate special education program offers five concentrations.

- The first concentration in exceptional student education is for students working toward initial state certification in special education.
- The second concentration is for students working toward initial certification in deaf education.
- The third option is a concentration in disability services designed for students interested in serving individuals with disabilities in general education classes or non-educational settings.
- The fourth concentration is for students interested in specialization in applied behavior analysis
- The fifth concentration is in ASL/English Interpreting.

Majors in special education consist of a minimum of 36 credits of graduate study. The inital certification Master's degree program requires additonal credit hours. An individually designed program of study for each student is developed by the student in collaboration with his or her faculty advisor.

For admission into the special education graduate program an applicant must

- obtain a minimum undergraduate grade point average (GPA) of a 3.0 in the last 60 semester hours of their undergraduate degree program;
- submit scores on the Graduate Record Exam (GRE) taken within the last five years;
- present three letters of recommendation (at least one from a current or former college professor);
- submit a written intent or goals statement (statements should between 500-1000 words) indicating the area of interest the applicant would like to pursue and how this course of study would help them in their own professional development.

Students not meeting minimum criteria for admission may be considered for admission under the UNF/College exceptions policy. Please check with the program director or the office of academic advising for procedures on admission by exceptions. The program makes special provisions for admitting students with disabilities.

Note: All applications, transcripts, test scores, and supporting documents must be sent directly to The Graduate School, University of North Florida, 1 UNF Drive, Jacksonville, FL 32224.

All students enrolled in College of Education and Human Services courses that require a field or
clinical component and/or are taught at a school site are mandated by state law to be fingerprinted and cleared prior to being permitted on elementary and secondary school campuses. Students should be aware that noncompliance with fingerprinting requirements will result in the inability to complete course requirements. Contact the Office of Educational Field Experiences, (904) 6203934, for information regarding fingerprinting procedures.
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## Special Education Concentrations (Graduate Level)

## Exceptional Student Education Concentration

The Exceptional Student Education concentration is designed for those students seeking initial certification as teachers of students with exceptionalities. The program of study is designed to offer graduate students the preparation needed for Florida state certification in exceptional student education, K-12.

- Exceptional Student Education


## Disability Services Concentration

The disability services concentration in special education is available for professionals who serve individuals with disabilities in special and general education and in settings other than schools. This concentration allows individuals to pursue graduate study in special education and in various cognate areas in education but does not lead to teacher certification. The program of study consists of a minimum of 36 credit hours and is individually designed.

- Disabililty Services


## Deaf Education Concentration

The Deaf Education concentration is designed for those students seeking initial certification as teachers of students who are deaf or hard of hearing. The program of study is designed to offer graduate students the preparation needed for Florida state certification in Deaf Education, K-12. Students who have completed their undergraduate degree in Deaf Studies at UNF have already met the "prerequisite" course requirements.

- Deaf Education


## Applied Behavior Analysis Concentration

The Applied Behavior Analysis (ABA) concentration is designed to prepare individuals to assume positions as professional clinical practitioners who work with exceptional individuals and are interested in behavioral assessment and appropriate interventions and in preparing for the BCBA or BCABA examinations.

- Applied Behavior Analysis
- Autism


## ASL/English Interpreting Concentration

The ASL/English Interpreting concentration is designed for those students seeking advanced preparation as sign language interpreters. The University of North Florida's interpreting programs are committed to upholding the National Interpreter Educational Standards as formulated by the Conference of Interpreter Trainers. The new master's degree concentration is offered in a distancefriendly modality with online, three weekend-per-semester/online, and a five day summer session/online formats to accommodate students who do not live in northeast Florida. The program is developed in accord with current spoken and signed language research and target interpreters who aspire to become nationally certified.

- American Sign Language Interpreting



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# Department of Exceptional Deaf \& Interpreter Education Faculty 

## Undergraduate

Karen Patterson, Chair and Associate Professor
Thomas S. Serwatka, Vice President and Professor
Len Roberson, Graduate Dean and Associate Professor
Gerard R. Giordano, Professor
Donald F. Moores, Professor \& Program Director Deaf Education
Kristine Webb, Professor \& Director of Disability Resource Center
Marsha H. Lupi, Associate Dean and Associate Professor
Sherry L. Shaw, Associate Professor \& Director of ASL/English Interpreting Program
Janice Seabrooks-Blackmore, Associate Professor \& Director: ESE
Susan Syverud, Associate Professor
Janice Humphrey, Associate Professor
Caroline Guardino, Assistant Professor
Deborah Reed, Instructor
Jonathan Antal, Instructor, ASL
Michael Stultz, Instructor, ASL
Dawn Wessling, Staff Interpreter

## Graduate

Karen B. Patterson, Ph.D., Chair and Associate Professor
Len Roberson, Ph.D., Graduate Dean and Associate Professor
Thomas Serwatka, Ph.D., Vice President and Professor
Gerard R. Giordano, Ph.D., Professor
Donald F. Moores, Ph.D., Professor and Director Deaf Education
Kristine Webb, Ph.D. Professor, Director: Disability Resource Center
Marsha H. Lupi, Ed.D., Associate Dean and Associate Professor
Sherry L. Shaw, Ed.D., Associate Professor and Director: ASL/Interpreting
Janice Seabrooks-Blackmore, Ph.D., Associate Professor and Director: ESE
Janice Humphrey, Ed.D., Associate Professor
Susan S. Syverud, Ph.D., Associate Professor
Caroline Guardino, Ph.D., Assistant Professor

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## Department of Foundations and Secondary Education

- Bachelor of Arts in Education
- Master of Education Degree in Curriculum and Instruction


## Bachelor of Arts in Education

Web Address: http://www.unf.edu/coehs/fse/
The purpose of the undergraduate programs in the Department of Foundations and Secondary Education is to carry out the goals of the College of Education and Human Services as they specifically relate to the preparation of teachers and related educational professionals for K-12 settings.

Teacher education programs in the department prepare teachers who will impact the learning of and actively respond to the needs of students from diverse backgrounds. The programs enable preservice teachers to demonstrate research-based pedagogical practices, to expand their content knowledge in order to help students meet the challenges of the 21st century, to use educational technologies thoughtfully, and to appreciate the role of critical thinking in education.

The Department of Foundations and Secondary Education offers undergraduate programs in the following areas:

Middle School Education, with a concentration in:

- Mathematics/Science (5-9)

Secondary Education, with majors in:

- Biology (6-12)
- Chemistry (6-12)
- English (6-12)
- Mathematics (6-12)
- Physics (6-12)
- Social Studies (6-12)


## K-12 Programs:

- Art Education
- Physical Education

The department has as its objectives the development of specified competencies needed for

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effective classroom performance. Laboratory and field experiences of increasing complexity are required and are correlated with theoretical components, providing an opportunity to apply information gathered in the program. Instructional techniques used by the division faculty will be those methods the students are expected to learn.

Whereas the department has formulated specific lists of prerequisite courses, all students are expected to be able to demonstrate basic skills in communication throughout the program. Further, students are expected to demonstrate behaviors, attitudes, and dispositions commensurate with established standards for professional educators, including the Florida Educator Accomplished Practices.

Persons seeking certification to teach in schools should follow the prescribed admission requirements for the College of Education and Human Services. Obtaining passing scores on all parts of the General Knowledge (GK) test and grades of "C" or better in all course work applicable to their program of study and/or used as prerequisites. Additionally, an overall minimum GPA of 2.5 is required for admission and must be maintained throughout their program leading to graduation. Passing scores on all parts of the FTCE are required for graduation.
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## Master of Education in Curriculum and Instruction

The mission of the department is to assist learners in developing personal and professional competencies needed for successful instruction in middle, secondary, and postsecondary educational settings. This goal is achieved through programs emphasizing individually meaningful instruction, the use of innovative materials, and the application of theoretical concepts in laboratory and clinical experiences.

## Category I - Master's Degree Programs for Teachers with Professional Teaching Certificates

Programs for certificated teachers that extend professional skills and knowledge and lead to the awarding of a Master of Education degree are the primary means for pursuing graduate study within the department. The central mission of these programs is to extend and enhance the instructional expertise of the professional teacher. The degree emphasizes ongoing data collection and analysis in the teacher's classroom and culminates in a action research project.

## Category II - Non-degree Studies that Lead to Certification

These studies are highly individualized course-by-course sequences that approximate the minimal standards required for certification through the Florida Department of Education. A baccalaureate degree is required to pursue course-by-course certification. All undergraduate requirements for admission apply for an individual to qualify as an active "teacher certification only" (TCO) candidate. Course-by-course certification can be achieved for both initial certification and add-on endorsements to a current valid teaching certificate. Because course-by-course certification is determined by current state requirements and not as a result of successful completion of the Department of Foundations and Secondary Education's state approved teacher preparation program, actual requirements can and do change frequently. The COEHS Office of Academic Advising, (904) 620-2530, has current information regarding certification requirements. It is important for the student to understand that teacher certification is granted by the Florida Department of Education and not from the University of North Florida.

## Category III - Non-Degree Studies for Professional Development and Enrichment

The college recognizes the on-going need for educational advancement of teachers. The department provides opportunities for non-degree avenues of study for experienced teachers for certificate renewal (TCR) as well as post-master's-degree course of study. These opportunities are highly variable and can be customized in a variety of ways. Individuals may enroll in courses of interest or an entire school staff may request a specific course by an instructor who is sent to the school site for weekly instruction. Inquire for current possibilities by contacting the Office of Academic Advising in the College of Education and Human Services, (904) 620-2530.

- Curriculum and Instruction - Professional Education


## Admission Requirements:

1. A baccalaureate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution with a grade point average of 3.00 (B) or higher in all work as an upper division student, normally 60 semester hours taken during the last two years of baccalaureate study or
2. An earned graduate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution.

## Additional Requirements:

1. Scores of 153 on the Verbal Reasoning and 144 on the Quantitative Reasoning portions of the Graduate Record Examination (GRE) or a 3.0 GPA for the last 60 credit hours of undergraduate study.
2. Three letters of recommendation
3. A copy of a valid Teaching Certificate or Statement of Eligibility
4. Statement of Intern/Goals (Candidates should prepare to write their statement of intent and goals by visiting the Curriculum and Instruction graduate program website for information about faculty and their research interests and descriptions of courses offered. This will give a sense of the culture and priorities of the program and how it might meet the candidate's professional development needs. The statement should address reasons for interest in the program, intended course of study (topics and areas of interest) and goals after completion. The statement should be between 1-2 pages, doublespaced, and use 12 point font, approximately $250-500$ words.)
5. CV or Resume (Candidates should include a CV/Resume on work relevant to teaching and related experiences. This document should be limited to 1-2 pages.)


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## Department of Foundations and Secondary Education Faculty

## Undergraduate

Jeffrey W. Cornett, Chair and Professor
Phillip S. Riner, Professor
Richard H. Chant, Associate Professor, Program Leader: Middle/Secondary Education
Otilia L. Salmon, Associate Professor
John W. White, Associate Professor
Carolyn Ali-Khan, Assistant Professor
Daniel L. Dinsmore, Assistant Professor
Wanda G. Lastrapes, Assistant Professor, Program Leader: Foundations
Madalina Tanase, Assistant Professor
Hope (Bess) Wilson, Assistant Professor
Brian P. Zoellner, Assistant Professor
Robert J. Smith, Instructor

## Graduate

Jeffrey W. Cornett, Ph.D., Chair and Professor
Phillip S. Riner, Ed.D., Professor
Richard H. Chant, Ed.D., Associate Professor and Program Leader: Middle/Secondary Education
Otilia L. Salmon, Ph.D., Associate Professor
John W. White, Ph.D., Associate Professor
Carolyn Ali-Khan, Ph.D., Assistant Professor
Daniel L. Dinsmore, Ph.D., Assistant Professor
Wanda G. Lastrapes, Ph.D., Assistant Professor, Program Leader: Foundation
Madalina Tanase, Ph.D., Assistant Professor
Hope (Bess) Wilson, Ph.D., Assistant Professor
Brian P. Zoellner, Ph.D., Assistant Professor

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## Department of Leadership, School Counseling \& Sports Management

Web Address: http://www.unf.edu/coehs/lscsm/

## Undergraduate

## Bachelor of Science in Sport Management

The Bachelor of Science in Sport Management has two concentration options for students who are Interested in working In the sport industry. The Sport Management Concentration is appropriate for those candidates who seek careers in professional sport, intercollegiate athletics, or sport entrepreneurship. The Community Sport Concentration is an appropriate concentration for candidates who seek leadership and/or instructional careers in settings offering sport, fitness, and recreation programming. Students interested in this degree program should contact Program Coordinator, Dr. Jason Lee, or an academic advisor in the College of Education and Human Services.

The Department of Leadership, School Counseling and Sport Management offers undergraduate programs in the following areas:

- Sport Management
- Community Sport

The Department of Leadership, School Counseling and Sport Management offers undergraduate minors in the following areas:

- Sport Management


## Graduate

The Department of Leadership, School Counseling, and Sport Management offers professional studies suitable for students interested in careers in educational leadership, school counseling, and Athletic Administration. Master of Education programs are offered in school leadership, advanced teaching and learning, and Higher Education Administration, educational leadership technology, school counseling, and athletic administration and a Doctor of Education program in educational leadership.

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- Master of Education in School Leadership
- Master of Education in Higher Education Administration
- Master of Education in Advanced Teaching and Learning
- Master of Education in Educational Technology Leadership
- Master of Education in Athletic Administration
- Master of Education in Counselor Education


## Admission Requirements:

## Doctor of Education

1. A master's degree from a regionally accredited institution with a minimum GPA of 3.25
2. An acceptable score on the Graduate Record Examination or, with the approval of the program director, an acceptable score on the GMAT or the Miller's Analogies Test
3. Three years of successful teaching experience or professional administrative experience in education or related field
4. Demonstrated leadership ability or leadership potential
5. Demonstrated academic ability and potential to complete the course work and a dissertation successfully
6. Career goals in professional education consistent with the objectives of the doctoral program
7. recommendation of the Doctoral Admissions Committee.

## Master of Education Educational Leadership

1. A baccalaureate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution with a grade point average of 3.00 (B) or higher in all work attempted as an upper division student, normally the 60 semester hours taken during the last two years of baccalaureate study or
2. An earned graduate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution.

## Additional Requirements per Program:

## Educational Leadership/School Leadership

1. Official transcripts from all attended institutions
2. A written statement of intent
3. A current Resume
4. Three letters of recommendation (one from a school administrator)
5. Copy of a valid teaching certificate or statement of eligibilty
6. At least one (1) year of successful full-time teaching experience in a public or private school (Three (3) years preferred).
7. Candidates seeking admission to a state-approved educator preparation program must demonstrate mastery of general knowledge for admission to the program by providing passing scores on the General Knowledge (GK), or GRE exams.

## Educational Leadership/Advanced Teaching and Learning

1. A written statement identifying professional career goals and aspirations
2. A current Resume
3. Three letters of recommendation

## Educational Leadership/Athletic Administration

1. A written statement identifying professional career goals and aspirations
2. A current Resume
3. Three letters of recommendation

## Educational Leadership/Technology Education Leadership

1. A written statement identifying professional career goals and aspirations
2. A current Resume
3. Three letters of recommendation

## Higher Education Adminstration

1. A written statement identifying professional career goals and aspirations
2. A current Resume
3. Three letters of recommendation

Note: Applicants not meeting the admission criteria of a 3.00 GPA in their last 60 hours of their baccalaureate degree will be required to apply for admission under our exceptions policy and must submit a competitive GRE or MAT score taken within the last 5 years.

## Master of Education / School Counseling**

1. Official transcripts from all attended institutions
2. GRE Scores. Prior to July 1.2011: composite score of 1000 for both verbal and quantitative.

After July 1, 2011: composite score of 297 for both the verbal and quantitative portions. Note:
Applicants may submit passing scores from the Florida General Knowledge (GK) test in lieu of GRE scores.
3. Letter of intent
4. Three letters of recommendation.
5. Personal interview required for admission.
** Note: Candidates seeking admission to state-approved educator preparation programs must demonstrate mastery of general knowledge for admission to the program by providing passing scores of the GK or GRE exams.


## Department of Leadership, School Counseling \& Sports Management Faculty

## Undergraduate

## Jennifer Kane, Chair and Associate Professor

E. Newton Jackson, Professor and Associate Provost

Terence Cavanaugh, Associate Professor
Elizabeth Gregg, Assistant Professor
Jason W. Lee, Assistant Professor
Kristi Sweeney, Assistant Professor
Maurice Graham, Visiting Instructor

## Graduate

Jennifer Kane, Ph.D. Chair and Associate Professor
Larry G. Daniel, Ph.D. Dean and Professor
Cheryl A. Fountain, Ed.D., Professor and Executive Director, Florida Institute of Education
Sandra L. Gupton, Ph.D., Professor
E. Newton Jackson, Ph.D., Professor and Associate Provost

Elinor Scheirer, Ph.D., Professor
Carolyn B. Stone, Ed.D., Professor
Warren A. Hodge, Ph.D., Associate Professor
Terence Cavanaugh, Ph.D., Associate Professor
Luke M. Cornelius, Ph.D., JD., Associate Professor
Christopher A. Janson, Ph.D., Associate Professor
Jerry Johnson, Ph.D., Associate Professor
Rebecca A. Schumacher, Ph.D., Associate Professor
Elizabeth Gregg, Ph.D., Assistant Professor
Jason W. Lee, Ph.D., Assistant Professor
Sophie Maxis, Ph.D., Assistant Professor
Kristi Sweeney, Ph.D., Assistant Professor
Judith Poppell, Visiting Assistant Professor, Director Educational Leadership

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## Course Designations

The catalog number for all courses is the number developed by the Statewide Course Numbering System. These designations have been developed by faculty task forces to aid the transfer process for students with equated courses from public institutions within Florida.

Courses are identified with an alphabetic and numeric coding system. The alphabetic abbreviation identifies the course content and the numbers have the following meaning:

| 1000 and 2000 series | Freshman- or sophomore-level courses |
| :--- | :--- |
| 3000 and 4000 series | Junior- or senior-level courses |
| 5000 series | Beginning graduate-level courses |
| 6000 series | Graduate-level courses |
| 7000 series | Doctoral-level courses |

For a more detailed explanation of the Statewide Course Numbering System, please click here.


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## Course Schedule Search:

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## Florida's Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 27 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online Statewide Course Numbering System to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at http://scns.fldoe.org.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course profiles."

## Example of Course Identifier

$\left.\begin{array}{|l|l|l|l|l|l|}\hline \text { Prefix } & \begin{array}{l}\text { Level } \\ \text { Code }\end{array} & \begin{array}{l}\text { Century } \\ \text { Digit }\end{array} & \begin{array}{l}\text { Decade } \\ \text { Digit }\end{array} & \text { Unit Digit } & \text { Lab Code } \\ \text { ENC } & 1 & 1 & \text { (first digit) } & \begin{array}{l}\text { (second } \\ \text { digit) }\end{array} & \text { (third digit) }\end{array} \begin{array}{l}\text { (fourth } \\ \text { digit) }\end{array}\right]$

## General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three
digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions, as listed below in Exceptions to the General Rule for Equivalency.

For example, a freshman composition skills course is offered by 59 different postsecondary institutions. Each institution uses "ENC_101" to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "ENC" means "English Composition," the century digit " 1 " represents "Freshman Composition," the decade digit "0" represents "Freshman Composition Skills," and the unit digit "1" represents "Freshman Composition Skills I."

In the sciences and certain other areas, a " C " or " L " after the course number is known as a lab indicator. The " $C$ " represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at the community college is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101.

Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

NOTE: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on semester-term systems. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

## The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

## Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:
Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating non public postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

## Exceptions to the General Rule for Equivalency

Since the initial implementation of the SCNS, specific disciplines or types of courses have
been excepted from the guarantee of transfer for equivalent courses. These include varying topics courses that must be evaluated individually, or applied courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.
A. Courses not offered by the receiving institution.
B. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
C. Courses in the _900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Theses, and Dissertations.
D. College preparatory and vocational preparatory courses.
E. Graduate courses.
F. Internships, apprenticeships, practica, clinical experiences and study abroad courses with numbers other than those ranging from 900-999.
G. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (i.e., portfolio, audition, interview, etc.).

## Courses at Nonregionally Accredited Institutions

The Statewide Course Numbering System makes available on its home page (http://scns.fldoe.org) a report entitled "Courses at Nonregionally Accredited Institutions" that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to the Florida Department of Education, Office of Articulation, 1401 Turlington Building, 325 West Gaines Street, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at (850) 245-0427 or at http://scns.fldoe.org .

## Undergraduate Courses

## Brooks College of Health

| Departments |  |
| :--- | :--- |
| Clinical and Applied Movement Sciences | Nutrition and Dietetics |
| Nursing | Public Health |

## Coggin College of Business

| Departments |  |
| :--- | :--- |
| Accounting and Finance | Management |
| Economics | Marketing and Logistics |

College of Arts and Sciences

| Departments |  |
| :--- | :--- |
| Art and Design | Mathematics and Statistics |
| Arts and Sciences | Music |
| Biology | Philosophy and Religious Studies |
| Chemistry | Physics |
| Communication | Political Science and Public Administration |
| Criminal Justice | Psychology |
| English | Sociology, Anthropology, and Social Work |
| History |  |
| Languages, Literatures, and Cultures |  |

College of Computing, Engineering, and Construction

| Departments |  |
| :--- | :--- |
| Building Construction Management | Electrical Engineering |
| Civil Engineering | Mechanical Engineering |
| Computing |  |

## College of Education and Human Services

Childhood Education, Literacy and TESOL Foundations and Secondary Education

Education and Human Services
Leadership, School Counseling and Sport Management
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## Graduate Courses

## Brooks College of Health

| Departments |  |
| :--- | :--- |
| Clinical and Applied Movement Sciences | Nutrition and Dietetics |
| Nursing | Public Health |

## Coggin College of Business

| Departments |  |
| :--- | :--- |
| Accounting and Finance | Management |
| Economics | Marketing and Logistics |

College of Arts and Sciences

| Departments |  |
| :--- | :--- |
| Art and Design | Mathematics and Statistics |
| Biology | Music |
| Chemistry | Philosophy and Religious Studies |
| Communication | Physics |
| Criminal Justice | Political Science and Public Administration |
| English | Psychology |
| History | Sociology, Anthropology, and Social Work |

Languages, Literatures, and Cultures

## College of Computing, Engineering, and Construction

| Departments |  |
| :--- | :--- |
| Building Construction Management | Electrical Engineering |
| Civil Engineering | Mechanical Engineering |
| Computing |  |

Childhood Education, Literacy and TESOL
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## Undergraduate Programs

## Brooks College of Health

| Majors |  |
| :--- | :--- |
| Athletic Training, BSAT | Nursing - Nursing-RN, BSN |
| Health Administration - Aging Services, BHA to Top |  |
| Health Administration, BHA | Nursing - Prelicensure Accel. Nursing, BSN |
| Health Science - Community Health, BSH | Nutrition \& Dietetics, BS |
| Health Science - Exercise Science, BSH |  |

Minors

Clinical \& Applied Movement Sc
Health Education

## Coggin College of Business

| Majors |  |
| :--- | :--- |
| Accounting, BBA | International Business - Euromed to UNF, BBA |
| Business Management, BBA | International Business - UNF to Euromed, BBA |
| Economics, BBA | International Business, BBA |
| Finance, BBA | Marketing, BBA |
| Financial Services - Financial Planning, BBA | Transportation and Logistics, BBA |

Minors

| Business Administration | Finance |
| :--- | :--- |
| Economics | Geography |
| Entrepreneurship | International Business |

## College of Arts and Sciences

## Majors

Anthropology, BA
Art - Ceramics, BA
Art - Painting, Drawing, Printmaking, BA
Art - Sculpture, BA

## Music Jazz Studies, BM

Music Performance - Music-Classical Piano, BM
Music Performance - Music-Classical Voice, BM
Music Performance - Music-Harp, BM

| Art History, BA | Music Performance - Music-Strings, BM |
| :---: | :---: |
| Biology - Biomedical Sciences, BS | Music Performance - Music-Woodwinds, Brass, Percus, BM |
| Biology - Coastal Biology, BS | Music Performance - Piano Performance and Pedagogy, BM |
| Biology - Coastal Environmental Science, BS | Philosophy - General Philosophical Studies, BA |
| Biology - Ecology and Evolution Biology, BS | Philosophy - Historical \& Comparative Studi, BA |
| Biology - Medical Laboratory Sciences, BS | Philosophy - Legal-Political-Social Studies, BA |
| Biology - Molecular/Cell Bio. \& Biotech, BS | Philosophy - Literary \& Cultural Studies, BA |
| Chemistry - Materials Chemistry, BS | Philosophy - Philosophy Advanced Studies, BA |
| Chemistry - Pre-Medical Professions, BS | Philosophy - Studies in Applied Ethics, BA |
| Chemistry, BS | Physics - Astrophysics, BS |
| Communication - Advertising, BS | Physics - Civil Engineering, BS |
| Communication - Multimedia Journ. \& Production, BS | Physics - Computing Emphasis, BS |
| Communication - Public Relations, BS | Physics - Electrical Engineering, BS |
| Criminal Justice, BA | Physics - Materials Science, BS |
| Economics, BA | Physics - Mechanical Engineering, BS |
| English - Theater/Drama, BA | Physics - Pre-Medical Physics, BS |
| English, BA | Physics, BS |
| Fine Arts - Ceramics, BFA | Political Science - American Politics, BA |
| Fine Arts - Graphic Design \& Digital Media, BFA | Political Science-General Political Science, BA |
| Fine Arts - Painting, Drawing, Printmaking, BFA | Political Science - Int'l Rel/Comparative Politics, BA |
| Fine Arts - Photography, BFA | Political Science - Pol Sci Fast Track MPA, BA |
| Fine Arts - Sculpture, BFA | Political Science - Public Admin/Public Policy, BA |
| French Studies, BA | Political Science - Public Law, BA |
| History, BA | Psychology - Child Psychology, BA |
| Interdisciplinary Studies, BA | Psychology - Child Psychology, BS |
| International Studies - Asian Studies, BA | Psychology, BA |
| International Studies - European Studies, BA | Psychology, BS |
| International Studies - Foreign Language \& Culture, BA | Religious Studies, BA |
| International Studies - Intl Relations \& Politics, BA | Social Work, BSW |
| International Studies - Latin American Studies, BA | Sociology - Social Welfare, BA |
| International Studies - Middle East-African Studies, BA | Sociology, BA |
| Mathematics - Discrete Analysis, BS | Spanish, BA |
| Mathematics, BA | Statistics, BA |
| Mathematics, BS | Statistics, BS |
| Music Education, BME |  |

Minors

| African Amer Studies/Diaspora | International Studies |
| :--- | :--- |
| American Literature Studies | Law and Philosophy |
| Anthropology | Mass Communication |
| Applied Statistics | Mathematical Science |
| Art History | Painting, Drawing, Printmaking |
| Asian Studies | Philosophy |
| Biology | Photography |
| British Literature | Physics |
| Chemistry | Political Science |
| Chinese | Public Administration |
| Classical Civilization | Religious Studies |
| Communication Studies | Social Welfare |
| Creative Writing | Sociology |
| Criminal Justice | Spanish |
| Culture and Philosophy | Statistics |
| Economics | Studies in Applied Ethics |
| Environmental Studies | Writing Studies |
| Film Studies |  |
| French |  |
| Gender Studies |  |
| Interdisciplinary Studies |  |

## Certificates

Medical Lab Sc. Certificate, CB

## College of Computing, Engineering, and Construction

| Majors |  |
| :--- | :--- |
| Building Construction, BS | Computing \& Info Sciences - Information Sys/Business Minor, BS Top |
| Civil Engineering, BS | Computing \& Info Sciences - Information Technology, BS |
| Computing \& Info Sciences - Computer Science, BS | Electrical Engineering, BSEE |
| Computing \& Info Sciences - Information Science, BS | Mechanical Engineering, BS |
| Minors |  |
| Computer Science | Electrical Engineering |
| Construction Management | Information Science |

## Certificates

Coastal Port Eng. Certificate, CU

## College of Education and Human Services

| Majors |  |
| :--- | :--- |
| Art Education - Art Education (K-12), BAE | Science Education - Biology (6-12), BAE |
| ASL/English Interpreting, BS | Science Education - Chemistry (6-12), BAE |
| Elementary Education - Elementary Education (K-6), BAE | Science Education - Physics (6-12), BAE |
| English Education - English (6-12), BAE | Social Studies Education - Social Studies (6-12), BAE |
| Math Education - Math (6-12), BAE | Special Education - Deaf Studies, BAE |
| Middle School Education - Math/Science Option, BAE | Special Education - Exceptional Student Education, BAE |
| Physical Education - Physical Education (K-12), BAE | Sport Management - Community Sport, BS |
| PreKdg/Primary Education, BAE | Sport Management, BS |
| Minors | Professional Education |
| Amer Sign Lang/Deaf Studies | Sport Management |
| Community Leadership |  |
| Early Childhood Education |  |

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## Graduate Programs

## Brooks College of Health

| Majors |  |
| :--- | :--- |
| Clinical Mental Health Couns, MS | Nursing - Clinical Nurse Spec-PT, MSN |
| Community Health - Health Promotion/Health Ed, MPH | Nursing - Nurse Anesthetist, MSN |
| Health Administration, MHA | Nursing - Nurse Practitioner (Family), MSN |
| Health Science - Aging Services Management, MSH | Nursing - RN-MSN Bridge, MSN |
| Health Science - Exercise Sc. \& Chronic Disease, MSH | Nursing, DNP |
| Health Science - Orthopaedic Physical Therapy, MSH | Nutrition \& Dietetics, MS |
| Nursing - Clinical Nurse Spec-FT, MSN | Physical Therapy, DPT |

Certificates

| Aging Services Certificate, CB | Public Health Certificate, CB |
| :--- | :--- |
| Post-Masters FNP Certificate, CM |  |

## Coggin College of Business

| Majors |  |
| :--- | :--- |
| Accounting - Taxation Concentration, MACC | General Business - Global Entrepreneurship, MBA to Top |
| Accounting, MACC | General Business - GlobalMBA, MBA |
| General Business - Accounting, MBA | General Business - International Business, MBA |
| General Business - Construction Management, MBA | General Business - Logistics, MBA |
| General Business - e-Business, MBA | General Business - Management Applications, MBA |
| General Business - Economics and Geography, MBA | General Business - Sports Management, MBA |
| General Business - Finance Concentration, MBA | General Business, MBA |
| Certificates |  |
| E-Business Certificate, CB |  |

## College of Arts and Sciences

## Majors

| Criminal Justice, MSCJ | Practical Phi \& Applied Ethics, MA |
| :--- | :--- |
| English - Composition and Rhetoric, MA | Public Administration - General Administration, MPA |
| English, MA | Public Administration - Health Administration, MPA |
| General Psychology, MA | Public Administration - Local Government Policy \& Adm, MPA |
| History - European History (Non-Thesis), MA | Public Administration - National Security, MPA |
| History - European History with Thesis, MA | Public Administration - Non-Profit Management, MPA |
| History - US History (Non-Thesis), MA | Public Administration - Public Policy, MPA |
| History - US History with Thesis, MA |  |

## Certificates

## College of Computing, Engineering, and Construction

## Majors

Civil Engineering, MSCE
Computing \& Info Sciences - Computer Science, MS
Computing \& Info Sciences - Information Systems, MS

Computing \& Info Sciences - Software Engineering, MS
Electrical Engineering, MSEE
Mechanical Engineering, MSME

## College of Education and Human Services

| Majors |  |
| :--- | :--- |
| ASL/English Interpreting - General Practice, MS | Elementary Education - Literacy, MED |
| ASL/English Interpreting - Interpreting Pedagogy, MS | Elementary Education - Professional Education, MED |
| Counselor Education - School Counseling, MED | Elementary Education - Tch Eng/Speakers of Other Lang, MED |
| Curriculum and Instruction - Professional Education, MED | Special Education - Amer Sign Language/Interpret, MED |
| Educational Leadership - Advanced Teaching \& Learning, MED | Special Education - Applied Behavior Analysis, MED |
| Educational Leadership - Athletic Administration, MED | Special Education - Autism, MED |
| Educational Leadership - Educational Tech Leadership, MED | Special Education - Deaf Education, MED |
| Educational Leadership - Higher Education Admin., MED | Special Education - Disability Services, MED |
| Educational Leadership - School Leadership, MED | Special Education - Exceptional Student Education, MED |
| Educational Leadership, DEDD |  |
| Certificates | Sport Management, CB |
| Certificate in TESOL, CB | Transformation of Conflict, CB |
| Early Childhood Education Cert, CB |  |
| Educational Leadership Cert, CM |  |

## Accelerated Bachelor to Masters Programs

Accelerated bachelor to masters degree programs enable students to obtain both a bachelor and master degree within five years. Interested students apply to the undergraduate program in the traditional manner.

## Accelerated Programs: Transitioning to Graduate Studies

Admission into an accelerated program at the undergraduate level does not guarantee admission into the related graduate program. Students enrolled in an accelerated program must fulfill the admissions requirements for the graduate portion of their program prior to the start of the student's final undergraduate semester.

To be considered for admission to the related graduate portion of an accelerated program, students must submit:

- A Graduate School application for admission to the related graduate program of study
- Test scores from the appropriate graduate aptitude test (as required by the related graduate program)
- Letters of reference, résumé or other additional supplemental documents (as required by the related graduate program)

For more information regarding the admissions process to a graduate program, please view Application Requirements at the UNF Graduate School website.

## Financial Aid for Accelerated Bachelor to Masters Programs

The UNF One Stop Website provides information about financial aid award guidelines for accelerated degree programs.

## University Honors Students

If you're a University Honors student, your Honors Capstone can be satisfied with your master's thesis. For more information about the Honors Capstone requirement, please see an Honors advisor.

## Accelerated Programs of Study

UNF currently offers an accelerated BS/MS Computer Science program. This program offered through The School of Computing allows students to obtain both Bachelor's and Master's Degrees in Computer Science in as little as 5 years.

Committed students who are academically motivated can take advantage of this program of study. This accelerated program requires a strong background in mathematics and science, including calculus and calculus-based physics.

Learn more about the Accelerated BS/MS by looking at The School of Computing program description and also by viewing the School of Computing brochure.
*This accelerated program is available for the Computer Science program only.


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## Cultural Diversity Requirement

The following courses will meet the cultural diversity requirement in the UNF General Education Program.
*AFH 3450
*AMH 3312
*AMH 3444
*AMH 3530
*AMH 3571
*AMH 3580
ANT 2000
ANT 2423
ANT 2930
*ANT 3212
*ANT 3312
*ASH 3223
*ASH 3440
*ASH 3448
*ASN 2003
*ECO 3701
ECP 2140
ENG 3613
*EUH 3580
*FIL 4848
GEB 2956
GEO 2420
IDH 2124
INR 2271
*LAH 3300
*LAH 3424
MMC 2701
PUP 2312
REL 2300
*REL 3012
*REL 3102
*SOP 3742

## South Africa

Gender in the United States
Peoples of the American West
Peopling in America
Introduction to African-American History
American Indian History
Introduction to Anthropology
Kinship and Family in a Cross-Cultural Perspective
Special Topics- Anthropology
Peoples \& Cultures of the World
North American Indians
Middle East
Japanese Civilization
Hiroshima
Introduction to Asia
Contemporary International Economics
Race and Gender in the American Economy
Topics in Disability Studies
Russian Thought \& Culture
World Cinema Across Cultures
Study Abroad in Business
Cultural Geography
Theory \& Politics - Multicultural
Mideast North Africa
Latin America
Aztec/Inca/Maya
Communicating Across Cultures
Race, Gender \& Politics
Comparative Religion
Myths \& Rituals
Religion as Culture
Psychology of Women
*SYD 3700
*SYD 3800
SYG 2012

Racial and Cultural Minorities
Gender and Society
Sex, Race and Class
*Freshman and sophomore students are restricted to enrollment in 2000-level courses.


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## First \& Second Year General Education Program

## Mission

A key purpose of General Education is to provide the components of a liberal education that develop and cultivate the capacities required for effective social, intellectual, and cultural engagement in a diverse democratic society and global environment. The General Education program provides the opportunities to gain the skills, knowledge and values that support full social participation and citizenship.

One must have the critical analytical and communication skills, as well as knowledge of the natural, social, and quantitative sciences, to understand and argue the important issues of the day. Furthermore, these issues call for aesthetic and ethical values and reflection that are developed most profoundly through the arts and humanities.

## Learning Outcomes

## Know the World.

Demonstrate knowledge of the natural sciences, mathematics, arts, and human societies.
Apply knowledge to real-world situations.
Recognize the inevitable limits of your own perception and understanding.

## Think Critically.

Read, analyze, and understand complex texts or quantitative information.
Use evidence to critically evaluate or defend a point of view.
Understand and critically evaluate ethical or aesthetic points of view.

## Solve Problems.

Locate, evaluate, and/or use research sources.
Formulate and/or apply models to evaluate problems and draw conclusions.

## Respect Others.

Demonstrate civic knowledge and engagement.
Recognize your place in the world in relation to others.

## Express Yourself.

Write in a coherent, analytical, and persuasive manner.
Speak respectfully, articulately and coherently in informal discussions or formal presentations.

## General Education Curriculum

The general education curriculum is composed of 36 credit hours in the disciplines of English,
mathematics, humanities, social sciences, and natural sciences. The curriculum requirements are outlined in the General Education Requirements section.

Lower-level students will have at least 24 credit hours available as electives within the first 60 hours. These electives should enable the interested student either to broaden his/her horizons or take the initial steps toward the major field of specialization.

This curriculum was planned to complement the special requirements of the University's existing majors and to provide a solid foundation for pre-professional programs.

All teacher education majors must satisfy a general knowledge test requirement before admission to the College of Education and Human Services.


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## General Education Program for Transfer Students

Transfer students must complete a general education program at a Florida public community college or university, or they must complete the UNF transfer general education program:

## Associate in Arts Degree Transfer Students

An Associate in Arts (A.A.) degree from a Florida public community college or university satisfies the general education program requirements at UNF including College-Level Communications and Computation Skills (Florida Gordon Rule).

The State of Florida Foreign Language Requirement must be met before graduation from UNF.

## Transfer Students with 60 or More Transferable Semester Hours

Transcripts of applicants who have not earned an A.A. degree from a Florida public community college or university will be reviewed individually to determine whether sufficient work has been completed in these General Education areas.

Refer to the Florida Gordon Rule for UNF courses that will satisfy these general education categories.

The State of Florida Foreign Language Requirement must be met before graduation from UNF.

The College-Level Communications and Computation Skills (Florida Gordon Rule) requirement must be met before graduation from UNF.

All teacher education majors must satisfy a general knowledge test requirement before admission to the College of Education and Human Services.

## Transfer Students with Less Than 60 Transferable Semester Hours

These students must satisfy the same general education requirements as a first-time in-college student. Refer to General Education Requirements for UNF courses that will satisfy these general education categories.

UNF.
The College-Level Communications and Computation Skills (Florida Gordon Rule) requirement must be met before graduation from UNF.

All teacher education majors must satisfy a general knowledge test requirement before admission to the College of Education and Human Services.


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## General Education Requirements

Please note that other courses may qualify for General Education credit. Please refer to the course schedule each semester for a complete listing of General Education courses.

| English Composition |  |  | 9 Credits |
| :---: | :---: | :---: | :---: |
| Required | *ENC 1101 | (GW) Introduction to Rhetoric and Writing | 3 |
| Required | *ENC 1143 | (GW) Introduction to Rhetoric and Narrative | 3 |
| Choose 1: | ENC 1102 | (GW) Informed Writer | 3 |
|  | ENC 2210 | (GW) Technical Writing | 3 |
|  | ENC 2441 | (GW) Writing Topics: Fine Arts | 3 |
|  | ENC 2442 | (GW) Writing Topics: Humanities | 3 |
|  | ENC 2443 | (GW) Writing Topics: Literature | 3 |
|  | ENC 2450 | (GW) Writing Topics: Natural Science | 3 |
|  | ENC 2451 | (GW) Writing Topics: Health | 3 |
|  | ENC 2460 | (GW) Writing Topics: Business | 3 |
|  | ENC 2461 | (GW) Writing Topics: Social Science | 3 |
|  | ENC 2462 | (GW) Writing Topics: Education | 3 |
|  | ENC 2463 | (GW) Writing Topics: Engineering | 3 |
|  | ENC 2930 | (GW) Special Topics in Composition | 3 |
|  | ENC 3250 | (GW) Professional Communication | 3 |
|  | *LIT 2932 | (GW) Special Topics in Literature | 3 |
|  | *CRW 2000 | (GW) Introduction to Creative Writing | 3 |
|  | *CRW 2100 | (GW) Introduction to Fiction Writing | 3 |
|  | *CRW 2201 | (GW) Introduction to Creative NonFiction Writing | 3 |
|  | *CRW 2300 | (GW) Introduction to Poetry Writing | 3 |
|  | *CRW 2400 | (GW) Introduction to Playwriting | 3 |
|  | *CRW 2600 | (GW) Introduction to Screen Writing |  |
|  | **CRW 2930 | (GW) Special Topics in Creative Writing | 3 |

(GW) courses require evaluated college-level writing and must be completed with a grade of " C " or higher.

* ENC 1101 and ENC 1143 are prerequisites for all other writing courses. ENC 1101 and ENC 1143 may be taken in any order or at the same time.

| Mathematics: |  | 6 Credits |  |
| :--- | :--- | :--- | :--- |
| Choose 2: | MGF 1106 | G(M) Finite Math | 3 |
|  | MGF 1107 | G(M) Explorations in Mathematics | 3 |
|  | MGF 1113 | G(M) Mathematics for Teachers I | 3 |
|  | MAC 1105 | G(M) College Algebra | 3 |
|  | MAC 1101 | G(M) Intensive College Algebra | 4 |
|  | MAC 1147 | G(M) Precalculus | 4 |
|  | STA 2014 | G(M) Elem. Stat. for Health \& Soc. | 3 |
|  | *MAC 2233 | Sci. |  |
|  | *STA 2023 | G(M) Calculus for Business | 4 |
|  | **MAC 2311 | Business | 3 |
|  | MAC 2312 | G(M)Calculus I Calculus II | 4 |
|  |  |  | 4 |

At least one course must have a mathematical prefix: MAC or MGF. G(M) courses must be completed with a grade of "C" or higher.* Prerequisite MAC 1105 or MAC 1147 **Prerequisite MAC 1147

| Humanities: |  |  | 9 Credits |
| :--- | :--- | :--- | :--- |
| a) Choose 1: | WOH 1012 | G(W)World History I | 3 |
|  | WOH 1022 | G(W)World History II | 3 |
| b) Choose 1: | PHI 2010 | G(W)Introduction to Philosophy | 3 |
|  | PHI 2100 | G(W)Reasoning and Critical | 3 |
|  |  | Thinking |  |
| c) Choose 1: | PHI 2630 | G(W) Contemporary Ethical Issues | 3 |
|  | ARH 2000 | Art Appreciation | 3 |
|  | MUH 2012 | Enjoyment of Music | 3 |
|  | MUH 2017 | History and Appreciation of Rock | 3 |
|  | MUH 2018 | The Evolution of Jazz | 3 |
|  | ARH 2050 | Art History Survey I | 3 |
|  | ARH 2051 | Art History Survey II | 3 |
|  | LIT 2000 | G(W) Introduction to Literature | 3 |
|  | MUT 1111 | Theory 1 (Music dept. permission | 3 |
|  | FIL 2000 | required.) |  |
|  | THE 2000 | Introduction to Film Studies | 3 |
|  | Theater Appreciation | 3 |  |

Additional ARH/HUM/MUH courses may be taken to fulfill the non-applied fine art requirement.

| Social Sciences: |  | 6 Credits |  |
| :--- | :--- | :--- | :--- |
| Part A: Introductory   <br> Social Science. AMH 2020 U.S. History Since 1877 | 3 |  |  |
| Choose 1: |  |  |  |
|  | CCJ 2002 | Crime in America | 3 |
|  | ECO 2013 | Principles of Macroeconomics | 3 |
|  | HSC 2100 | Personal and Community Health | 3 |
|  | POS 2041 | Introduction to American | 3 |
|  | PSY 2012 | Government | Introduction to Psychology |

## Choose 1:

| *GEO 2420 | CD-Cultural Geography | 3 |
| :--- | :--- | :--- |
| ANT 2423 | CD-Kinship and Family | 3 |
| ASN 2003 | CD-Introduction to Asia | 3 |
| MMC 2701 | CD-Communicating Across | 3 |
|  | Cultures |  |
| PUP 2312 | CD-Race/Gender/Politics | 3 |
| REL 2300 | CD-Comparative Religion | 3 |
| SYG 2013 | CD-Sex, Race and Social Class | 3 |

A complete list of CD courses are listed with the online schedule each semester. *Can satisfy either Part A or Part B but NOT BOTH.

| Natural Sciences: |  | 6 Credits |  |
| :--- | :--- | :--- | :--- |
|  | AST 2002 | Astronomy | 3 |
|  | AST 2002L | Astronomy Lab | 1 |
|  | BSC 1005C | Principles of Biology (Non-Science <br> majors) | 4 |
|  | BSC 1010C | General Biology (Science majors) | 4 |
|  | BSC 1930 | Current Application in Biology | 2 |
|  | CHM 1025 | Introduction to Chemistry | 2 |
|  | CHM 1025L | Introduction to Chemistry Lab | 1 |
|  | CHM 2045 | General Chemistry I | 3 |
| CHM 2045L | General Chemistry I Lab | 1 |  |
|  | ESC 2000C | Earth Science | 3 |
| *HUN 1001 | Introduction to Nutrition Science | 2 |  |
|  | HUN 2201 | Basic Principles of Nutrition | 3 |
| PHY 1020 | Introduction to Physics | 2 |  |
| PHY 1020L | Introduction to Physics Lab | 1 |  |
| PHY 2053 | Algebra Physics I | 3 |  |
| PHY 2053L | Algebra Physics I Lab | 1 |  |
| PHY 2048 | Calculus Physics I | 4 |  |
| PHY 2048L | Calculus Physics I Lab | 1 |  |

Some majors require specific courses. Consult your advisor.

* Prerequisite BSC 1005C or BSC 1010C


## Total: 36 Credits

*** This program meets the requirements for the UNF Associate in Arts (A.A.) degree. The award of the A.A. requires 60 credit hours, 30 hours of which must be in residence at UNF.

## Transfer Students with 60+ (Junior/Senior) Credits **

Refer to College-Level Communication \& Computation Skills for a list of courses that will satisfy the Gordon Rule composition and mathematics requirements.

Composition: 9 Credits English Composition I plus any combination of two English composition, creative writing, or literature courses which must contain college-level written work. Grades of " C " or higher are required.

Mathematics: 6 CreditsTwo courses at the college algebra level or higher. Only one course may be selected from Elementary Statistics or Symbolic Logic. Grades of " C " or higher are required.

Social Sciences: 6 Creditsa) Any semester-length course selected from the following: anthropology, economics, geography, history, political science, psychology, or sociology.
b) A social science course from a different disciplinary area from that selected above and which has
significant emphasis on cultural diversity in anthropology, economics, geography, history, political science, psychology or sociology.

Humanities: 9 CreditsTwo courses chosen from history, philosophy or other humanities disciplines. Grades of "C" or higher are required. Additional courses may come from art history, history, literature, non-applied music history, philosophy, religion, theatre, and other courses with HUM prefixes. No more than one course may be used from each discipline.

Natural Sciences: 6 CreditsSix credit hours of laboratory science in astronomy, biology, chemistry, geology or physics. This requirement may be fulfilled with two 3-hour lab-sciences or a 4-hour labscience and a 2- or 3-hour lecture course.

## Total: 36 Credits

**Approved upper division courses may be used to satisfy these requirements.

## Florida and Community College Associate in Arts (A.A.)

## Degree Graduates

An Associate in Arts (A.A.) degree from a Florida public university or community college satisfies the general education requirements at UNF.

Total: 36 Credits


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# College-Level Communication \& Computation Skills (Gordon Rule) 

College-Level Communications and Computation Skills (Gordon Rule) State Rule 6A-10.030, applies to students who enroll in a Florida postsecondary institution, college, or university after October 1982.

The communications component of the rule requires students to complete "six credit hours of English coursework and six credit hours of additional coursework in which the student is required to demonstrate college-level writing skills through multiple assignments." Native UNF students completing the General Education program will meet this requirement through the completion of nine credit hours in English course work, three credit hours in freshman core, and three credit hours in philosophy in which the student is required to demonstrate college-level writing skills. UNF will accept as Gordon Rule courses those designated as Gordon writing from other Florida SUS and community college institutions. Course syllabi may be required to evaluate whether a course transferred from a private and/or out-of-state institution complies with the "college-level writing skills through multiple assignments" criteria.

The computation component requires that students must complete six credit hours in mathematics course work at the level of college algebra or higher. Only one course may be selected from Elementary Statistics or Symbolic Logic.

All communications and computation skills courses must be completed with a grade of "C" or higher. Completion of the Associate in Arts degree at a state university or Florida public community college will satisfy these requirements.

A list of University of North Florida courses which meet the Gordon Rule communications and computation requirements is provided below.

## Communication Gordon Rule Courses

*These courses fulfill the English portion of the Gordon Rule requirement. All other courses fulfill the additional Gordon Rule writing requirement.

| Course Number | Course Title |
| :--- | :--- |
| AMH 3554 | (GW) Law @ Social Resp. |
| AML 3031 | (GW) Periods of Early American Literature |
| AML 3041 | (GW) Periods of Later American Literature |
| AML 3102 | (GW) American Fiction |
| AML 3154 | (GW) American Poetry |
| AML 3621 | (GW) Black American Literature |
| *CRW 2000 | (GW) Introduction to Creative Writing |
| *CRW 2100 | (GW) Introduction to Fiction Writing |

*CRW 2201
*CRW 2300
*CRW 2400
*CRW 2600
*CRW 2930
CRW 3110
CRW 3211
CRW 3310
CRW 3610
*ENC 1101
ENC 1102
ENC 1130
ENC 2127
*ENC 2210
*ENC 2441
*ENC 2442
*ENC 2443
*ENC 2450
*ENC 2451
*ENC 2460
*ENC 2461
*ENC 2462
*ENC 2463
*ENC 2930
*ENC 3250
ENC 3310
ENC 3324L
*ENG 2012
ENG 3603
ENG 4014
ENL 3112
ENL 3132
ENL 3501
ENL 3503
EUH 1000
EUH 1001
HIS 3051
*LIT 2000
LIT 2100
LIT 2110
LIT 2932
LIT 3043
LIT 3184
LIT 3193
LIT 3304
LIT 3331
LIT 3333
LIT 3930
PHI 2010
PHI 2100
PHI 2630
WOH 1012
WOH 1022
(GW) Introduction to Creative Non-Fiction
(GW) Introduction to Poetry Writing
(GW) Introduction to Playwriting
(GW) Introduction to Screenwriting
(GW) Special Topics in Creative Writing
(GW) Fiction Workshop
(GW) Creative Non-Fiction Workshop
(GW) Poetry Workshop
(GW) Screenwriting Workshop
(GW) College Writing
(GW) The informed writer
(GW) Special Topics in Writing
(GW) Elements Style
(GW) Technical Writing
(GW) Writing Topics: Fine Arts
(GW) Writing Topics: Humanities
(GW) Writing Topics: Literature
(GW) Writing Topics: Natural Science
(GW) Writing Topics: Health
(GW) Writing Topics: Business
(GW) Writing Topics: Social Science
(GW) Writing Topics: Education
(GW) Writing Topics: Engineering
(GW) Special Topics in Composition
(GW) Professional Communications
(GW) Writing Prose
(GW) Advanced Composition
(GW) The Art of Close Reading
(GW) American Film
(GW) Approach to Literature Interpretation
(GW) British Novel I
(GW) British Novel II
(GW) Periods of Early British Literature
(GW) Periods of Later British Literature
(GW) Freshman Core I
(GW) Freshman Core II
(GW) The Craft of the Historian
(GW) Introduction to Literature
(GW) Masterworks
(GW) Literature I
(GW) Literature II
(GW) Modern \& Contemporary Drama
(GW) Introduction to Irish Literature and Culture
(GW) Literature of the East
(GW) Literature of Popular American Culture
(GW) Children's Literature
(GW) Adolescent Literature
(GW) Special Topics in Literature
(GW) Introduction to Philosophy
(GW) Reasoning and Critical Thinking
(GW) Contemporary Ethical Issue
(GW) World History I
(GW) World History II

## Computation (Math) Gordon Rule Courses

Only one course may be selected from Elementary Statistics or Symbolic Logic. At least one course must have a mathematics prefix of MAA, MAC, MAD, MAS, MGF, MHF or MTG.

| MAA 4200 | G(M) Mathematical Analysis |
| :---: | :---: |
| MAA 4211 | G(M) Advanced Calculus I |
| MAA 4212 | G(M) Advanced Calculus II |
| MAA 4402 | G(M) Complex Analysis |
| MAC 1101 | $G(M)$ Intensive College Algebra |
| MAC 1105 | $G(M)$ College Algebra |
| MAC 1114 | G(M) Trigonometry |
| MAC 1147 | G(M) Precalculus |
| MAC 2233 | G(M) Calculus for Business |
| MAC 2311 | $G(M)$ Calculus I |
| MAC 2312 | $G(M)$ Calculus II |
| MAC 2313 | $G(M)$ Calculus III |
| MAC 2241 | $G(M)$ Calculus for Biology |
| MAD 3107 | $G(M)$ Discrete Mathematics |
| MAD 4401 | G(M) Numerical Analysis |
| MAP 2302 | $G(M)$ Ordinary Differential Equations |
| MAP 4231 | G(M) Operations Research |
| MAP 4341 | G(M) Elementary Partial Differential Equations |
| MAS 3105 | G(M) Linear Algebra |
| MAS 3203 | G(M) Number Theory |
| MAS 4156 | G(M) Vector Analysis |
| MAS 4301 | G(M) Abstract Algebra I |
| MGF 1106 | $G(M)$ Finite Mathematics |
| MGF 1107 | G(M) Explorations in Mathematics |
| MGF 1113 | $G(M)$ Mathematics for Teachers I |
| MGF 1114 | G(M) Mathematics for Teachers II |
| MHF 3202 | $G(M)$ Foundations of Mathematics |
| MHF 3404 | $G(M)$ History of Mathematics |
| MTG 3203 | G(M) Geometry for Middle School Teachers |
| MTG 3212 | G(M) Modern Geometry |
| MTG 4302 | G(M) Elementary Topology |
| PHI 3130 | G(M) Symbolic Logic |
| STA 2014 | G(M) Elementary Statistics for Health/Social Sciences |
| STA 2023 | G(M) Elementary Statistics for Business |
| STA 3032 | G(M) Probability and Statistics for Engineers |
| STA 3163 | G(M) Statistical Methods I |
| STA 3164 | G(M) Statistical Methods II |
| STA 4202 | $G(M)$ Design of Experiments |
| STA 4222 | G(M) Design of Sample Surveys |
| STA 4321 | $G(M)$ Probability and Statistics |
| STA 4322 | G(M) Statistical Theory |
| STA 4445 | G(M) Applied Probability Models |
| STA 4502 | G(M) Nonparametric Methods in Statistics |
| STA 4504 | G(M) Categorical Data Analysis |
| STA 4664 | $G(M)$ Statistical Quality Control |
| STA 4945 | G(M) Capstone Experience in Statistics |

## Note:

CLEP exams may not be used to satisfy Gordon Rule Writing. Only the subject exam in College Algebra or above may be used to satisfy Gordon Rule Math. Passing CLEP scores are determined by the UNF Office of Admissions. General CLEP exams will not satisfy either Gordon Rule Writing or Gordon Rule Math.


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## Honors and Scholars Program

The Honors Program at the University of North Florida offers talented students a unique approach to higher education. Averaging only 20 students, Honors seminars apply active learning in interdisciplinary settings. The goal is to build a community of learners who have the power to take their learning outside the classroom, enabling them to take what they read in their text and apply it to the outside world. In addition, Honors students are offered special funding opportunities to enable them to learn through travel, internships, and research. The Honors Program provides students with a personalized education that is usually only available at small liberal arts colleges but at the price of a state university tuition.

What does it mean to be a UNF Honors student? It means learning to think carefully and well. It means working with professors who know your name. It means traveling to other countries and learning to understand other cultures. It means being part of a tight-knit community in which everyone is focused on becoming well-rounded individuals and exploring the world beyond lectures and textbooks. It means being supported by faculty who understand that the most meaningful education combines experiential learning and critical thinking. Our classes are heavily discussionbased, with plentiful opportunity for careful, critical thought. Many of our courses include field trips and other activities beyond the classroom so that students have the chance to see how the topic relates to the real world and to apply the skills they've learned.

For more information on what it means to be a UNF Honors student, visit the Honors Program website.

## Vision

The Honors Program demonstrates its commitment to academic and cultural growth, civic awareness and student success by fostering a community of intellectually curious global citizens. Through the Honors Program, students are encouraged to develop rigorous and comprehensive critical thinking, their sense of integrity and a commitment to service.

## Mission

The Honors Program inspires students to explore new areas beyond the experiences they've had. Through a vibrant, supportive community of faculty, staff and students, the program emphasizes opportunities to exercise disciplined critical thinking, make connections between disciplines, develop global awareness, participate as community citizens, and engage fully in their education. We do this through an interesting variety of small seminar classes taught by motivated faculty, individualized attention from a dedicated staff, and a vibrant student-directed social life.

For more information about these opportunities, visit the Honors and Scholars Program website.


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## Admission to the Honors Program

The Honors Program is highly selective, admitting fewer than 10 percent of the entering first year class for participation. The program recruits and admits students whose scholastic performance demonstrates an enthusiastic and curious approach to learning. We look not only for students who have high grade point averages and test scores, but also for students who have sought out the most challenging high school courses, are leaders in their school and community, and give back to the larger community through service. All prospective students must begin by applying to UNF.

Any individual interested in applying to the Honors Program must first be accepted into UNF by the Office of Admissions. Once you have received confirmation that you have been accepted into the university, you can begin.

## Incoming Freshmen

There are two ways by which you may enter the Honors Program: 1) By invitation (for Presidential Scholarship recipients only); or 2) By application.

1. Invitation: If you are awarded the UNF Presidential Scholarship through the Office of Admissions, you will be invited to join the Honors Program. No essay or resume is required.

- If you are certain you want to join the Honors Program, simply return your Intent Form to the Honors office and register for Honors Preview Day.
- If you are still deciding whether you want to join the Honors Program, we encourage you to attend Honors Preview Day.


## ** Please note: Honors is a limited access program. Intent Forms are due May 1st. However, once we have met our cap, we will no longer be accepting Intent Forms regardless of the deadline. **

2. Application: If you are not a Presidential Scholarship recipient and you would like to apply for admission into the Honors Program, please complete an application and submit it with your resume and your essay. Click on the "Apply Now" tab under "Admissions."

We are looking for students who are able to balance high engagement and academic success and so we use multiple factors for admission decisions: GPA, test scores, resume and essay. The average Honors student has a UNF recalculated GPA of 4.09, an SAT of 1243, or an ACT of 27.9. The resume should have your principal activities and honors in high school, including prizes, scholarships, professional or academic offices held, athletic pursuits, extracurricular interests and activities. The essay should be no more than one typed page (11 pt font, 1 inch margins) and should address ONE of the two essay prompts below:

- Honors students typically are intellectually curious, are internally motivated, have broad horizons, are leaders who are interested in helping others, and possess integrity. Please select one of the five terms below and describe why it is personally meaningful to you: intellectual curiosity, internal motivation, broad horizons, service-leadership, integrity.
- Define what success in college means to you.


## Next Steps:

- After you submit your application, you will receive a decision from the Honors Program within 3 weeks.
- If you are accepted or waitlisted, you must register here for Honors Preview Day on April 20, 2013.
** Please note: Honors Preview Day is not a substitution for UNF Orientation. All freshmen
must attend an Orientation session. **


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## Graduation through the Honors Program

## To graduate with University Honors, students must:

1. Complete a minimum of 15 credit hours of Honors designated courses;
2. Complete an appropriate Capstone experience no sooner than 2 years before graduation; and
3. Have a 3.4 cumulative GPA the semester prior to graduation.

Throughout their college career, students must maintain a 3.0 cumulative GPA in order to remain in the Honors Program. Students below a 3.0 cumulative GPA will be dropped from the program and may apply for reinstatement upon reaching a 3.4 cumulative GPA. Students between a 3.0 and 3.39 are considered to be in Honors probationary status. For specific questions about the Capstone experience and its requirements, please contact Dr. David Kammerman at david.kammerman@unf.edu.

Graduation note: In order to receive medals for graduation, students must complete an exit interview during the semester in which they plan to graduate. Please contact the Honors office for more information.


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## Honors Program Fees

## Experiential Learning Fee

Pursuant to $\S 1009.24$ (14) (m) \& (I), Florida Statutes, the University charges Honors students a \$200 fee to offset specific, identifiable increased costs to the University for off-campus course offerings as well as materials and supplies consumed in the course of Honors students' instructional activities. This is a one-time fee charged to all entering Honors students. The fee supports special activities and opportunities for Honors students, including orientation, student events, recognition ceremonies, and class trips. The fee is non-refundable and will be added to the student's account for the first fall semester in which the student attends UNF.

## Honors Housing Fee

Honors freshmen students arrive on campus two and a half days before the rest of the freshmen class to participate in the Honors Freshmen Retreat. Students living in the UNF Residence halls are assessed a daily fee for the first two nights (currently $\$ 25 / n i g h t)$. The freshmen are met with a full 3day program of activities that both builds the Honors community and introduces the students to some of the resources at the University that will help them succeed. Students also participate in activities designed to build the Honors community. There are academic activities, like the Something You Know A Lot About presentations, team-building activities at UNF's Eco-Adventures facility, and social activities. We believe that the Honors Freshman Retreat is one of the most important and successful programs that helps our students succeed in college. Aside from the Housing fee, all of the activities (and even most meals until the meal plan begins) at the Honors Freshman Retreat are covered by their one-time Experiential Learning Fee described above.

## Special Course Fees

There are some Honors courses that have special requirements that necessitate an additional fee. For example, students enrolled in the Wild Florida course are required to pay a $\$ 50$ fee to cover the costs of field trips and supplies. Each semester, the courses that require extra fees will be so designated in the course descriptions that students obtain from the Honors academic advisor.


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## Army Reserve Officers Training Corps (AROTC): Army Science Program

University of North Florida Army Reserve Officer Training Corps (UNF Army ROTC) is a challenging program for student's wishing to receive a commission as an officer in the United States Army. Graduating students (called "cadets") who complete the UNF ROTC curriculum will receive a commission as a Second Lieutenant (2LT) in the United States Army, and will have the option of serving on active duty or in the United States Army Reserve or Army National Guard. UNF ROTC is a four-year program comprised of academic classes, leadership laboratory courses, and physical training. Traditional cadets typically enroll in UNF ROTC as freshmen, but there are many options for sophomores and even incoming juniors to apply and complete the program.

UNF Army ROTC courses fit into most UNF academic programs as electives and a military science minor is offered at UNF and can be awarded upon successful completion of the UNF ROTC program. Students normally take one course per semester along with their other classes. Freshmen and sophomores (MS1's and MS2's) begin with instruction in basic leadership and military skills such as physical fitness, land navigation, and first aid. These classes are considered electives just like any other at UNF, and during this "try it and see" stage, there is no commitment required to enter the US Army.

Junior cadets (MS-3's) take advanced courses in tactics, leadership, and management. At this stage, they formally commit to the United States Army and compete at a national training course in events such as land navigation, tactics and physical fitness. During their senior (MS4) year, upperclassmen cadets receive advanced instruction in leadership principles, advanced military skills, and management. They also serve as student-level supervisors of all of the other UNF ROTC cadets. Upon graduation from UNF, these outstanding men and women receive a commission as an Army Second Lieutenant.

## Financial Benefits

UNF Army ROTC offers several opportunities for scholarships with full tuition/fees (or room and board up to $\$ 10,000$ per year). As a high school senior, students may compete for a 4-year scholarship. Once on the campus as a UNF student, cadets meeting the academic and physical standards may apply for a 3-year or 2-year Army ROTC Campus Based Scholarship. Each pays full tuition, $\$ 1,200$ / year for books, plus a monthly stipend for living expenses. The monthly spending stipend is paid only during the ten months during spring and fall when school is in session. Freshmen receive $\$ 300 /$ month, sophomores $\$ 350 /$ month, juniors $\$ 450 /$ month, and seniors receive $\$ 500 /$ month. UNF Army ROTC Cadets may also choose to serve in the Army Reserve or National Guard "Simultaneous Membership Program" (SMP). As an SMP participant, the cadet is paid the rank of SGT in the Army Reserve or Florida National Guard unit and holds the duties and responsibilities of an officer.

## Obligation to the US Army

Introductory or basic courses let the student "try out" the US Army without obligation. However, once
a cadet accepts a scholarship or enters the advanced courses, they make a commitment to serve as an Army officer for 8 years upon graduation. Some cadets request full-time active duty assignments and serve initial tours of 3-4 years. Others elect to serve as part-time Army Reserve or National Guard Officers for 6-8 years while they pursue their civilian careers or advanced academic degrees.

## What else does Army ROTC offer?

As an Army ROTC cadet, students have numerous opportunities to perfect leadership and military skills, which will serve them in the military and in the civilian world. During the school year, cadets participate in one weekend field training exercise or "FTX". The FTX involves small-group leadership challenges and adventure activities. After the junior year, cadets participate in a five-week summer leadership camp (LDAC), followed by paid internship opportunities (CTLT) at Army posts in the U.S., Germany, and Korea. Many cadets also have summer opportunities for advanced military training schools such as Airborne, Air Assault, Mountain \& Northern Warfare schools. Cadet social activities include an annual Military Ball along with gatherings at local restaurants, and end of semester barbecue and award ceremony.

## How can Army ROTC benefit you?

Army ROTC will help you be successful during college and after graduation. You will gain the confidence and self-discipline necessary to succeed in college and impress employers when you graduate. As you progress, you will gain skills and experiences in leading activities, setting goals, managing people and resources, and making decisions in demanding circumstances. Additionally, you will earn opportunities for service-to-country as an officer, full-time on active duty or part-time as you pursue a civilian career.

## How do enroll into UNF ARMY ROTC?

Enrolling in UNF Army ROTC is as easy as registering for any other UNF course. You may take any of the basic courses (freshman and sophomore years) without obligation. As an undergraduate or graduate student, you may qualify for advanced courses as long as you have two years of full-time study remaining before graduation. Students who enter ROTC after their sophomore year may attend a four week paid summer training course (LTC), qualifying you to enter the junior year of Army ROTC or elect to complete United States Army Basic Training (BCT) to meet the prerequisite.

Jacksonville University (JU), Florida State College of Jacksonville (FSCJ), and Edward Waters College (EWC) students are also fully eligible to participate in UNF ROTC. Students should consult their academic advisors for enrollment information.

## Prior Service Students

If you're a veteran or are currently serving in the Army Reserve or National Guard, you may qualify to enter directly into the advanced course when you become an academic junior at the university. You may participate in ROTC without losing your Montgomery GI Bill or tuition assistance benefits.

## How to get more information on UNF ARMY ROTC



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## Army ROTC Courses

MSL 1001-Leadership and Personal Development Co-requisite: MSL 1001L
This course introduces Cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal development of life skills such as critical thinking, goal setting, time management, physical fitness, and stress management relate to leadership, officership, and the Army profession. Lessons are designed to maximize participation, inspire intellectual curiosity, stimulate self-study and encourage team building through military/life skills. Each student must also register for and attend a two-hour weekly leadership laboratory (MSL 1490L). Students not on scholarship who enroll in this basic course do not incur any service obligation to the US Army.

## MSL 1001L-Freshman Leadership Laboratory I

## ( 0 credits)

Co-requisite: MSL 1001
The Freshman Leadership Laboratory consists of a two-hour block of instruction directly supporting freshman classroom instruction. Cadets implement the initial classroom lessons in a real-world setting to form the building blocks of the Army's values, physical fitness, leadership and officership. Participation in at least one weekend field training exercise and two army physical fitness tests are required.

## MSL 1002-Introduction to Tactical Leadership

 Co-requisite: MSL 1002LThis course covers leadership fundamentals such as setting direction, problem solving, listening, presenting briefs, providing feedback, and using effective writing skills. Cadets explore dimensions of leadership values, attributes, and competencies in the context of practical, hands-on, and interactive exercises. Cadre role models and the building of stronger relationships among the Cadets through common experience and practical interaction are critical aspects of the MSL 1020 experience. Students must register for and attend a two-hour, weekly leadership laboratory (MSL 1492L). Students not on scholarship who enroll in this basic course do not incur any service obligation to the US Army.

MSL 1002L-Freshman Leadership Laboratory II
( 0 credits)
Co-requisite: MSL 1002
The Introduction to Tactical Leadership Laboratory consists of a two-hour block of instruction that directly supports freshman classroom instruction. This lab overviews leadership fundamentals such as setting direction, problem solving, listening, presenting briefs, providing feedback, and using effective writing skills. Cadets explore dimensions of leadership values, attributes, and competencies in the context of practical, hands-on, and interactive exercises.

## MSL 2101-Individual Leadership Studies

## (2 credits)

Co-requisite: MSL 2101L
This course explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army Leadership Requirements Model (trait and behavior theories). Cadets practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs. Focus is on continued development of the knowledge
of leadership values and attributes through an understanding of Army rank, structure, and duties, and basic aspects of land navigation and squad tactics. Case studies provide tangible context for learning the Soldier?s Creed and Warrior Ethos as they apply in the Contemporary Operating Environment (COE). Students must register for and attend a two-hour, weekly leadership laboratory. Students not on scholarship who enroll in this basic course do not incur any service obligation to the US Army.

## MSL 2101L-Sophomore Leadership Laboratory I

## ( 0 credits)

Co-requisite: MSL 2101
MSL 2101 explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army Leadership Requirements Model (trait and behavior theories). Cadets practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs. Focus is on continued development of the knowledge of leadership values and attributes through an understanding of Army rank, structure, and duties, and basic aspects of land navigation and squad tactics. Case studies provide tangible context for learning the Soldier's Creed and Warrior Ethos as they apply in the Contemporary Operating Environment (COE). Students not on scholarship who enroll in this basic course do not incur any service obligation to the US Army.

## MSL 2102-Foundations of Tactical Leadership

## (2 credits)

Co-requisite: MSL 2102L
This course examines the challenges of leading tactical teams in the complex COE. The course highlights dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations. This course provides a smooth transition into MSL 3201. Cadets develop greater self-awareness as they assess their own leadership styles and practice communication and team-building skills. COE case studies give insight into the importance and practice of teamwork and tactics in real-world scenarios. Students must register for and attend a two-hour, weekly leadership laboratory. Students not on scholarship who enroll in this basic course do not incur any service obligation to the US Army.

## MSL 2102L-Sophomore Leadership Laboratory II

## (0 credits)

Co-requisite: MSL 2102
The Sophomore Leadership Laboratory II consists of a two-hour block of instruction that directly supports classroom instruction. Cadets implement the initial classroom lessons in a real world setting, MSL 2102 examines the challenges of leading tactical teams in the complex Contemporary Operating Environment. The course highlights dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations. MSL 2102 provides a smooth transition into MSL 3201. Cadets develop greater self-awareness as they assess their own leadership styles and practice communication and team-building skills. COE case studies give insight into the importance and practice of teamwork and tactics in real-world scenarios. Students not on scholarship who enroll in this basic course do not incur any service obligation to the US Army.

## MSL 3201-Adaptive Team Leadership

## (3 credits)

Co-requisite: MSL 3201L
MSL 3201 challenges Cadets to study, practice, and evaluate adaptive leadership skills as they are presented with the demands of preparing for the ROTC Leader Development and Assessment Course (LDAC). Challenging scenarios related to small-unit tactical operations are used to develop self-awareness and critical-thinking skills. Cadets receive systematic and specific feedback on their leadership values, attributes, skills, and actions.

## MSL 3201L-Leadership and Problem Solving Laboratory

This leadership laboratory course provides practical application of topics covered in MSL 3201. This lab challenges cadets to study, practice, and evaluate adaptive leadership skills as they are presented with the demands of preparing for the ROTC Leader Development and Assessment Course (LDAC). Challenging scenarios related to small-unit tactical operations are used to develop self-awareness and critical-thinking skills. Cadets receive systematic and specific feedback on their leadership values, attributes, skills and actions.

MSL 3202 uses increasingly intense situational leadership challenges to build cadet awareness and skills in leading tactical operations. Having learned squad-level tactics in MSL 3201, cadets now learn to lead up to platoon level. Cadets review aspects of combat, stability, and support operations. They also conduct military briefings and develop proficiency in garrison operation orders. The focus is on exploring, evaluating, and developing skills in decision making, persuading, and motivating team members in the COE. MSL 3202 cadets are evaluated on what they know and do as leaders as they prepare to attend LDAC.

## MSL 3202L-Leadership and Ethics Laboratory

## ( 0 credits)

## Co-requisite: MSL 3202

This leadership laboratory course provides practical application of topics covered in MSL3202. This lab challenges Cadets to study, practice, and evaluate adaptive leadership skills as they are presented with the demands of preparing for the ROTC Leader Development and Assessment Course (LDAC). Challenging scenarios related to small-unit tactical operations are used to develop self-awareness and critical-thinking skills. Cadets receive systematic and specific feedback on their leadership values, attributes, skills, and actions.

## MSL 4301-Adaptive Leadership

(3 credits)
Prerequisite: Requires completion of MSL 3201, MSL 3202 or professor of Military Science permission Co-requisite: MSL 4301L
This course provides practical exercise in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing leadership-performance feedback to subordinates. Cadets are given situational opportunities to assess risk, make sound ethical decisions, and provide coaching and mentoring to fellow ROTC Cadets. MSL IV Cadets are measured by their ability to give and receive systematic and specific feedback on leadership abilities using the Socratic model of reflective learning. Cadets at the MSL IV level analyze and evaluate the leadership values, attributes, skills, and actions of MSL III Cadets while simultaneously considering their own leadership skills. Attention is given to preparation for success at BOLC II and III, and the development of leadership abilities.

## MSL 4301L-Leadership and Management Laboratory

( 0 credits)
Prerequisite: Requires completion of MSL 3201, MSL 3202 or professor of Military Science permission Co-requisite: MSL 4301
This laboratory enables the application of the lessons learned in the classroom in a practical environment. It develops proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing leadership-performance feedback to subordinates. Cadets are given situational opportunities to assess risk, make sound ethical decisions, and provide coaching and mentoring to fellow ROTC Cadets. MSL IV Cadets are measured by their ability to give and receive systematic and specific feedback on leadership abilities using the Socratic model of reflective learning. Cadets at the MSL IV level analyze and evaluate the leadership values, attributes, skills, and actions of MSL III Cadets while simultaneously considering their own leadership skills. Attention is given to preparation for success at BOLC II and III, and the development of leadership abilities.

## MSL 4302-Leadership in a Complex World

(3 credits)
Prerequisite: MSL 4301 Co-requisite: MSL 4302L
This course explores the dynamics of leading in the complex situations of current military operations in the COE. Cadets examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. They also explore aspects of interacting with nongovernmental organizations, civilians on the battlefield, and host nation support. The course places significant emphasis on preparing cadets for their first unit of assignment. It uses case studies, scenarios, and ?What Now, Lieutenant?? exercises to prepare cadets to face the complex ethical and practical demands of leading as commissioned officers in the United States Army.

## MSL 4302L-Officership Laboratory

## (0 credits)

Prerequisite: MSL 4301 Co-requisite: MSL 4302
This laboratory enables the practical application of lessons learned in the MSL 4302 classroom. It explores the dynamics of leading in the complex situations of current military operations in the COE. Cadets examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. They also explore aspects of interacting with nongovernmental organizations, civilians on the battlefield, and host nation support. The course places significant emphasis on preparing cadets for their first unit of assignment. It uses case
studies, scenarios, and ?What Now, Lieutenant?? exercises to prepare cadets to face the complex ethical and practical demands of leading as commissioned officers in the United States Army.

## MSL 4905-Independent Study

(1-3 credits)
Prerequisite: Requires departmental permission. Enrollment is determined by the Professor of Military Science
This course introduces students to fundamental leadership styles and their effectiveness in and out of the work place; Students will be able to mend growing problems and work to further solidify unity in the environment; Students will also work on military counseling and the methods for which it is used.

MSL 4941-Advanced Leader Training

## (4 credits)

Leadership development and assessment course is the army's 5-week leader internship conducted at Fort Lewis, Washington from June through August. The instructor places each cadet in a variety of leadership positions, many of which simulate stressful combat situations. Cadets are evaluated by platoon tactical officers and NCOs. Training is organized into separate committees in a tiered structure, including basic military skills, leadership development, tactical training, basic rifle marksmanship and situational training exercises. Although this course is not conducted on campus grading will be conducted by university faculty.


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## Army ROTC Course Curriculum

| Freshman Year |  |
| :--- | :---: |
| Leadership and Personal Development | 2 hours |
| Freshman Leadership Laboratory I | 0 hours |
| Introduction to Tactical Leadership | 2 hours |
| Freshman Leadership Laboratory II | 0 hours |
| Sophomore Year | 2 hours |
| Individual Leadership Studies | 0 hours |
| Sophomore Leadership Laboratory I | 2 hours |
| Foundations of Tactical Leaderships | 0 hours |
| Sophomore Leadership Laboratory II |  |


| Junior Year |  |
| :--- | :---: |
| Adaptive Team Leadership | 3 hours |
| Leadership and Problem Solving Laboratory | 0 hours |
| Leadership in Changing Environments | 3 hours |
| Leadership and Ethics Laboratory | 0 hours |

$\overline{\text { Summer Course (Leadership Development and Assessment - } \quad \text { Seattle, Washington; } 4 \text { weeks) }}$

| Advanced Leader Training | 4 hours |
| :--- | :--- |


| Senior Year |  |
| :--- | :---: |
| Adaptive Leadership | 3 hours |
| Leadership and Management Laboratory | 0 hours |

Leadership in a Complex World 3 hours


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## Naval Reserve Officers Training Corps (NROTC)

University of North Florida students may participate in the Naval Reserve Officer Training Corps (NROTC) program which is housed at Jacksonville University while earning their academic degrees at UNF. The mission of the NROTC is to prepare future leaders of the United States Navy and Marine Corps mentally, morally, and physically for commissioning in the naval services. The goal is to provide a steady supply of well-educated junior officers, ready to serve their country. The NROTC program is designed to support the student's academic major with specified university courses and naval professional courses. NROTC graduates will:

1. Understand the fundamental roles and missions of the United States Navy and the importance of seapower to our national interests;
2. Know the concepts and principles of leadership;
3. Appreciate national security requirements;
4. Gain a strong sense of personal integrity, honor, and individual responsibility; and
5. Attain an educational background which will allow advanced/continuing education later in their careers in a field of application and interest to the naval service.

There are two phases (or "courses") of NROTC, a "basic course" taken during the freshman and sophomore years, and an "advanced course" taken in the junior and senior years.

There are five programs - three NROTC Scholarship Programs and two NROTC College Programs.

## NROTC Scholarship Program

These students enter into a contract with the Secretary of the Navy in which they agree to take certain Naval Science courses and drills, attend university-taught courses, and complete three summer training periods. The Navy provides tuition, fees, textbooks, uniforms, and a $\$ 200$ per month subsistence allowance for a maximum of 40 months. Scholarship students are selected through national competition.

## NROTC Two-Year Scholarship Program

The Two-Year Scholarship Program provides tuition, books, uniforms, and a $\$ 200$ per month subsistence allowance for the junior and senior years of college. To be selected, students must be in advanced college standing and qualify for enrollment in the NROTC program's advanced courses at colleges or universities where NROTC is offered. The Chief of Naval Education and Training requires successful completion of summer training immediately before beginning the two-year program. The summer course of instruction, referred to as the Naval Science Institute (NSI), provides the Naval Science courses and drill training equivalent of NROTC basic course. Two-Year Scholarship students are selected through national competition and through a system of direct appointments.

Upon graduation scholarship midshipmen are commissioned as Ensigns in the U.S. Naval Reserve or as Second Lieutenants in the U.S. Marine Corps, and serve on active duty for a minimum of four
years.

## NROTC Four-Year Scholarship Nurse Option Program

This program provides tuition, books, uniforms, and a $\$ 200$ per month subsistence allowance for those pursuing a nursing degree. Graduates from the NROTC Nurse Option Program are commissioned in the restricted line, Nurse Corps, and serve on active duty for a minimum of four years.

The nursing program is highly structured and allows few opportunities for electives or tailoring schedules. The NROTC has a liberal policy for waiving courses that are designed for commissioned officers entering fields other than nursing. These courses include Calculus, Physics, American Military History, National Security Policy, Naval Ship Systems I and II, Navigation and Naval Operations I and II, and Computer Science. The senior summer training period is normally served at a Navy Hospital. All other NROTC requirements apply to nurse corps midshipmen.

## NROTC Four-Year College Program

These students enter into an agreement with the Secretary of the Navy in which they agree to take certain Naval Science courses, university-taught courses, drill periods, and to complete one summer training period. They enlist in the Naval Reserve upon commencement of advanced standing. In return, the Navy provides uniforms and Naval Science textbooks, and pays students \$200 a month subsistence allowance during the junior and senior years for a maximum of 20 months.

## NROTC Two-Year College Program

Students selected must be in advanced college standing and qualify for enrollment in the NROTC College Program's advanced courses at colleges or universities where NROTC is offered. The Chief of Naval Education and Training requires successful completion of summer training immediately before beginning the two-year program. The summer course of instruction, referred to as the Naval Science Institute (NSI), provides Naval Science courses and drill training equivalent to the NROTC basic course. Those enrolled in the Two-Year College Program will have the same privileges and obligations as advanced standing students in the Four-Year College Program.

Upon graduation college program students are commissioned as reserve officers in the U.S. Navy or U.S. Marine Corps and serve on active duty for three years.

College program students are eligible to compete for NROTC scholarships based on academic grades and military aptitude. Qualified individuals are nominated yearly by the Professor of Naval Science, and if selected, receive all the benefits of the scholarship program.

Students who do not qualify for enrollment in either the scholarship or college program may enroll in Naval Science courses for academic credit only. They will not be eligible for appointment as a commissioned officer.

## Eligibility Requirements

1. Must be a citizen of the United States and present official certified proof of citizenship.
2. Must have high moral standards and officer like character evidenced by appearance, scholarship, extracurricular activities, and involvement in the community. Criminal conviction is normally disqualifying.
3. Applicants for the Scholarship Program must be at least 17 years old on or before 1 September of the year of enrollment, and must be under 27 years old on 30 June of the calendar year in which commissioned. Age waivers are available, and other limitations may exist based on an applicant's special circumstances.
4. Scholarship students must meet the physical qualification standards set by the U.S. Navy's Bureau of Medicine. College Program students must meet the standards prior to entering advanced standing. A physical exam is not usually required for enrollment in the basic course, however, students must meet initial screening standards.

Must meet Department of the Navy requirements concerning prior use of narcotics and/or other related drugs.

## Summer Training Requirements

Scholarship students go on summer training for about 30 days during each of their three college summers. The first summer training includes exposure to aviation, submarine, surface, and amphibious specialties both ashore and afloat. The second summer is at-sea training aboard operational U.S. Navy ships. During the third summer candidates train aboard operational ships, nurse midshipmen train at a Navy hospital, and Marine Corps candidates train at U.S. Marine Corps Base, Quantico, Virginia. The Navy provides transportation to and from sites, subsistence and living quarters, and training pay during the summer training periods.

College program students perform one summer training session between the junior and senior years.

## Drills, Ceremonies and Inspections

All NROTC program students attend the Naval Science Laboratories for one and half hours each Thursday morning.

NROTC Jacksonville
2800 University Blvd North
Jacksonville, FL 32211-3394
904-256-7480 (phone)
904-256-7499 (fax)


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## Naval ROTC Courses

## The following courses are offered at Jacksonville University.

## NS 100. Naval Science Laboratory (.5; F; S)

Designed to provide a period of instruction to allow student leadership to organize and facilitate annual training. Training topics include but are not limited to, General Military Training (GMT), close order drill, guest speakers, safety training and other topics pertinent to the professional development of future Junior and Company Grade officers. This course provides ample time for student-led training. Student participation will be critical to the success of the class.

NS 101. Introduction to Naval Science (2; F)
A general introduction to the naval service. This course places emphasis on the mission, organization and warfare components of the Navy. Included is an overview of officer and enlisted rank and rating structures, career progression, naval traditions, customs and courtesies, discipline and naval leadership.

## NS 102. Seapower \& Maritime Affairs (2; S)

A study of the historical role of seapower from 2500 B.C.E. to the 21 st-century and its impact as an instrument of national policy. Emphasis is placed on the role of the United States Navy in the 19th and 20th centuries. The student is made cognizant of the challenges facing today's Naval officers.

## NS 200. Naval Science Laboratory (.5; F; S)

Designed to provide a period of instruction to allow student leadership to organize and facilitate annual training. Training topics include but are not limited to, General Military Training (GMT), close order drill, guest speakers, safety training and other topics pertinent to the professional development of future Junior and Company Grade officers. This course provides ample time for student-led training. Student participation will be critical to the success of the class.

NS 201. Naval Ships Systems I (Combat Systems) (3; F)
A familiarization course in the basic concepts and principles associated with the development and employment of naval weapons systems. It includes coverage of weapons systems, radar and fire control systems, their capabilities, limitations and application. Target acquisition, identification, tracking and engagement principles are also covered.

## NS 202. Naval Ships Systems II (Engineering) (3; S)

A familiarization course in the basic concepts and principles of current Naval Propulsion systems, damage control and ship design. Subjects covered include steam, nuclear and gas turbine propulsion, shipboard generators and distribution, ship's stability and damage control systems.

## NS 300. Naval Science Laboratory (.5; F; S)

Designed to provide a period of instruction to allow student leadership to organize and facilitate annual training. Training topics include but are not limited to, General Military Training (GMT), close order drill, guest speakers, safety training, and other topics pertinent to the professional
development of future Junior and Company Grade officers. This course provides ample time for student-led training. Student participation will be critical to the success of the class.

## NS 301. Navigation \& Naval Operations I (3; S)

A comprehensive study of the theory, concepts, principles, and procedures of ship navigation, movements, and employment. Included are studies in spherical trigonometry, mathematical analysis and practices, spherical triangulation, sights, sextants, publications and logs. Rules of the road, lights and signals, and navigational aids, including satellite and inertial guidance systems are reviewed. Individual and multi-ship formations, dispositions, and maneuvers are analyzed for force effectiveness and mission support. Principles of relative motion and maneuvering board procedures are applied to maneuvering problems.

## NS 302. Navigation \& Naval Operations II (3; F)

An in-depth study of the theory, principles, procedures, and application of plotting, piloting, and electronic navigation as well as an introduction to maneuvering boards. Students learn piloting techniques, the use of charts, the use of visual and electronic aids, and the theory of operation of both magnetic and gyrocompasses. Students develop practical skills in plotting and electronic navigation. Other topics include tides, currents, effects of wind/weather, voyage planning, and an application and introduction to the international/inland rules of navigation. The course is supplemented with a review/analysis of case studies involving moral/ethical/leadership issues pertaining to the concepts listed above.

## NS 310. Evolution of Warfare (Marine Corps Option) (3; S)

A study of the concepts, art, and evolution of warfare. Purposes of the study are to formulate the sense of historical continuity in the evolution of warfare and to explore the impact of historical precedent on military thought and actions of the great leaders and military organizations.

## NS 313. Navigation Laboratory (1; S)

Co-requisite: NS 301. Practical application, in the laboratory and on field trips, of the scientific and mathematical principles presented in class, including piloting, celestial navigation, and ship maneuvering problems utilizing relative motion concepts as applied to the maneuvering board.

## NS 314. Navigation Laboratory (1; F)

Co-requisite: NS 302. Practical application, in the laboratory and on field trips, of the scientific and mathematical principles presented in class, including piloting, celestial navigation, and ship maneuvering problems utilizing relative motion concepts as applied to the maneuvering board.

NS 400. Naval Science Laboratory (.5; F; S)
Designed to provide a period of instruction to allow student leadership to organize and facilitate annual training. Training topics include but are not limited to, General Military Training (GMT), close order drill, guest speakers, safety training and other topics pertinent to the professional development of future Junior and Company Grade officers. This course provides ample time for student-led training. Student participation will be critical to the success of the class.

## NS 401. Leadership \& Management (3; F)

A comprehensive study of organizational behavior and management. The theme of the course is the "officer as a manager, organizational decision maker and leader." Topics include a survey of the management functions of planning, organizing and controlling, and extensive study of motivation and leadership. Major behavioral theories are explored in detail. Other topics include decision making, communication, responsibility, authority and accountability.

## NS 402. Leadership \& Ethics (3; F; S)

A course designed to provide midshipmen with the ethical foundation and basic leadership tools needed to be effective junior officers and outstanding leaders in the Navy and Marine Corps. The course specifically includes training on principle-centered leadership, ethics, morals, character development, core values, management techniques, military justice, officer performance standards, Navy organization and programs and division officer responsibilities.

## NS 410. Amphibious Warfare (Marine Corps Option) (3; F)

A course that introduces students to the fundamental terms, concepts, and theories of general warfare and amphibious warfare. These terms, concepts and theories will be applied through a historical analysis of amphibious operations, identifying the evolution of amphibious doctrine, tactics and technology. It focuses on the evolution of the United States Marine Corps into a specialized amphibious force, with particular attention devoted to the structure and capabilities of the present day U.S. Marine Corps as a forward deployed and rapid deployment force and the development of Expeditionary Maneuver Warfare concepts.


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## Naval ROTC FAQs

## Top 10 Frequently Asked Questions:

1. What happens if I am a College Program Midshipman and don't get a scholarship?
2. What exactly does a NROTC Scholarship pay for?
3. Does the NROTC Scholarship pay for room and board?
4. What do Midshipmen have to do in the NROTC program?
5. If I have an NROTC Scholarship am I restricted on what my major can be? Do I have to take certain classes for NROTC?
6. Is the NROTC Program any different for Marine Option Midshipmen?
7. Is a Marine Option Scholarship different from a Navy Option Scholarship?
8. What if I haven't been granted a scholarship? Can I still join NROTC?
9. What is my normal time commitment to NROTC each week?
10. Are there any restrictions on choices for women?

## Other Frequently Asked Questions:

1. What NROTC classes should I register in?
2. I was told I am not physically qualified for the NROTC program, what can I do?
3. What are the obligations of a NROTC Scholarship Midshipman upon commissioning?
4. What obligation do I owe as a College Program Midshipman with Advance Standing that is commissioned?
5. What does the summer training consist of for scholarship students?
6. What academic standards are there for NROTC Scholarship and College Program Midshipman?
7. What if I received a 4 year NROTC scholarship to a university I was not accepted to?
8. When should I apply to NROTC?
9. Which school should I list first on my application?
10. What physical/athletic requirements are there for midshipmen?
11. Can I be in a fraternity or sorority?

## Q: What happens if I am a College Program Midshipman and don't get a scholarship?

A: If you don't earn a scholarship by the end of your sophomore year, you automatically apply for Advance Standing. Advance Standing; if granted will provide the Midshipman with the \$350/400, (Juniors/Seniors), stipend every month during the school year for the remaining two years. Upon graduation the Advanced Standing Midshipman receives the same commission as the Scholarship Midshipman. If the Midshipman has not been granted Advance Standing by the beginning of the junior year, he or she will be disenrolled from the ROTC program.

## Q: What exactly does a NROTC Scholarship pay for?

A: The NROTC Scholarship pays the students' tuition, uniforms, books, and lab related fees. It also provides the student a stipend every month during the school year, this increases as you complete years in the program, to help with the cost of living.

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## Q: Does the NROTC Scholarship pay for room and board?

A: No, the NROTC Scholarship does not pay for room and board. Certain colleges and universities will give NROTC students a Room and Board scholarship to help defray those costs. UNF does not offer a specific scholarship to NROTC students, but does have many other scholarships available. You should contact the UNF financial aid office for additional assistance.

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## Q: What do Midshipmen have to do in the NROTC program?

A: Midshipmen are required to take one Naval Science class each semester for four years. These classes provide instruction ranging from the history of the Navy to shipboard operations and engineering. Students are also required to attend Drill in uniform. If students are on scholarship they are required to attend summer training for three consecutive summers.

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## Q: If I have an NROTC Scholarship am I restricted on what my major can be? Do I

 have to take certain classes for NROTC?A: Navy Scholarship Students and College Program (Advanced) students must remain in the major listed when they applied for the scholarship. Academic major changes must be approved by the Professor of Naval Science. Marine Corps Scholarship students and all College Program (Basic) students are allowed to major in any academic field that will grant them a Bachelors degree. Navy scholarship midshipmen must, in addition to fulfilling their degree requirements, complete one year of calculus, one year of physics, one year of English, a semester of Computer Science, and a semester of International Relations. They are also required to take one Naval Science class per semester. College Program Midshipman that will commission with Advance Standing are required to take a semester of College Algebra, Physical Science, Computer Science, and one year of English. They are also required to take one Naval Science class every semester.

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## Q: Is the NROTC Program any different for Marine Option Midshipmen?

A: Yes and no. Marine Option Midshipmen are required to take six Naval Science classes. Two of these Naval Science classes are separate from the Navy Option Midshipmen. The Marine Option classes focus on the history of warfare and amphibious operations. Marine Option Midshipmen are not required to take all of the classes that Navy Options Midshipmen are required to take. Only one semester of Military History or National Security Policy is required. Marine Option Midshipmen attend all Battalion drills and functions. There is a Marine Officer Instructor and an Assistant Marine Officer Instructor at the NROTC Unit that oversee all the Marine Options. Marine Option Midshipmen who are on scholarship are required to attend summer training as well. The first two summers of training are identical to Navy Option Midshipmen; they are required to attend Cortramid and a second class cruise that provides an enlisted experience. Between the Marine Options' junior and senior year, he or she is required to attend Officer Candidate School or BULLDOG. After commissioning, all Marines must attend The Basic School (TBS) regardless of their Military Occupational Specialty (MOS).

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## Q: Is a Marine Option Scholarship different from a Navy Option Scholarship?

A: Yes, the Marine and Navy Scholarship process is different. However, some Midshipmen are allowed to transfer between Navy and Marine options if they so desire while they are in NROTC. College Program Midshipmen are also allowed to be Marine Options and work for a Marine Scholarship. College Program Marine Option Midshipmen must achieve Advance Standing by the end of their sophomore years in order not to be disenrolled. If the Marine Option Midshipman gains

Advance Standing then he or she is awarded the $\$ 350 / 400$, (Juniors/Seniors), stipend and is required to serve 3 years of active duty.

## Q: What if I haven't been granted a scholarship? Can I still join NROTC?

A: Absolutely. There are two avenues for this. One is the College Program and the other is the Naval Science Program. If students join the NROTC College Program, they will be required to do almost everything a scholarship student does. College Program students do not go on summer training, however they do attend the initial orientation prior to the Fall semester. College Program students are reviewed for scholarship selection twice a year. Scholarship selection is based upon a student's grades, military aptitude and physical fitness performance in NROTC. Students may participate in College Program without any service commitment for the Freshman and Sophomore years. The Naval Science program is simply enrolling in Naval Science classes. Naval Science students have no obligation to NROTC other than attending the class(es) in which they are enrolled. Both College Program and Naval Science students may apply for a scholarship after attending naval science classes for one semester.

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## Q: What is my normal time commitment to NROTC each week?

A: An average week includes about 10-15 hours of work including class, drill and some weekend commitments. Expect to do more as you gain seniority.

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## Q: Are there any restrictions on choices for women?

A: Yes. Women are not currently allowed to serve with the Navy SEALs. However Surface Warfare, Submarines and Aviation are all open to women. Within NROTC, women have served as Battalion Commander (the highest ranking midshipman) and in every other leadership billet.

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## Q: What NROTC classes should I register in?

A: Freshmen should register for "Introduction to Naval Science" (NSC 1110). Scholarship and College Program midshipmen should also register for NSC 1101 which is Drill/Naval Science Lab.

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Q: I was told I am not physically qualified for the NROTC program, what can I do?
A: You will not receive a NROTC scholarship unless you are found physically qualified for the NROTC program. It is imperative that you become physically qualified before commencement of classes. If you are attempting to gain a waiver for some disqualifying physical condition and you start classes at the university, you will be responsible for payment of tuition, fees and books for that semester. If you are later found physically qualified for a NROTC scholarship during that same semester (i.e. your waiver is granted), your tuition, fees and book expenses can be reimbursed (case by case basis). If you are found not physically qualified for the NROTC program, tuition, fees and book expenses will not be reimbursed. If you are not sure if you are physically qualified or if you need information on how to get a waiver, please contact CNET or the recruiter who helped process your application.

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## Q: What are the obligations of a NROTC Scholarship Midshipman upon commissioning?

A: Scholarship students that graduate and receive their commissioning are obligated to serve 8 years of commissioned service, 4 years of active duty and 4 years inactive reserve. This is in an unrestricted line billet (surface, submarine, aviation, or special warfare). If students go to flight school as Pilots or Naval Flight Officers, their obligations increase to 8 and 6 years of active duty respectively, from their winging date.

## Q: What obligation do I owe as a College Program Midshipman with Advance Standing that is commissioned?

A: College Program commissionies are obligated to serve a minimum of 8 years commissioned service, 3 of these years must be active duty. The length of active duty is extended to 6 years for Naval Flight Officers and 8 years for jet Pilots upon receiving wings (7 years for helos or props).

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## Q: What does the summer training consist of for scholarship students?

A: The initial training is prior to freshman year, orientation. This training provides the basics to get the freshmen ready to join the Battalion. The first fleet summer training scholarship students attend is called CORTRAMID. Scholarship students attend CORTRAMID over the summer between their Freshmen and Sophomore years of college. CORTRAMID's goal is to orient Midshipmen with the Navy. One week is devoted to exposure to the surface Navy, another to aviation, another to submarines, and the last spent with the Marine Corps. Midshipmen have the choice of attending CORTRAMID on either the west coast in San Diego, California or in the east at Norfolk, Virginia. The Midshipman's second class cruise (summer training) is between their sophomore and junior years. The second class cruise is designed to give the midshipman exposure to the enlisted community. The Midshipmen will be assigned a highly motivated career Petty Officer running mate who will work with the midshipman on board ship performing enlisted duties. The Midshipman's first class cruise is between their junior and senior year of college. The first class cruise is designed to provide the Midshipman with a realistic exposure to what it is like to be an officer. The Midshipman is assigned a LT or LTJG running mate. The Midshipman will shadow the officer and assist the officer on performing shipboard duties while in port and underway. It should be noted that College Program (Advance Standing) Midshipmen are required to attend this first class cruise.

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## Q: What academic standards are there for NROTC Scholarship and College Program Midshipman?

A: Scholarship and College Program Midshipman must maintain a 2.5 semester and 2.0 cumulative Grade Point Average on a 4.0 scale, have no failing grades in any subject required for their major or commissioning, progress on a prescribed timeline for graduation, and have a full academic load every semester (12 credit hours, not including your NROTC classes).

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Q: What if I received a 4yr NROTC scholarship to a university I was not accepted to?
A: Scholarship selection and placement is conducted by CNET. Write CNET and request that your scholarship be transferred to another university to which you have been accepted. Be sure to include all of the applicable information (universities you have been accepted to, etc) and any extenuating circumstances. Only CNET has the authority to approve or disapprove this request. There is no guarantee that your request will be approved. Another option is to request, via CNET, a deferral of your 4 yr scholarship to the next term or school year. This will not change the university where the scholarship is applicable, but the time the scholarship starts. In this way you can re-apply to the university and hopefully get accepted for the next school year. If you do not report to your assigned school as per the scholarship award letter prior to the commencement of classes in the fall, and you have not received an CNET approved deferment or transfer of your scholarship, it will be assumed that you have rejected your 4yr NROTC scholarship.

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## Q: When should I apply to NROTC?

A: Typically CNET will begin soliciting applications late in the Spring semester of your Junior year in H.S. for the National 4 Year Scholarships. Fill out an online application, (https://www.nrotc.navy.mil). You will be responsible to send other paperwork such as transcripts and your SAT scores. Part of the application also requires interviews. Please take care of those as soon as you can. The
scholarships are awarded starting in September, so students that apply first have an advantage. Students who are not awarded scholarships immediately are retained for further review in later rounds.

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## Q: Which school should I list first on my application?

A: NROTC requires you list 5 universities and that one of your top 2 choices be a state school. However, we STRONGLY recommend that you list the schools in the order you want to attend. The scholarship board will normally assign you to a school in the order you list them, provided there is room. Remember, it is your responsibility to get accepted at the schools you list. There is no guarantee that the NROTC will have room for every student at every school. All NROTC programs are limited in the number of students they may admit.

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Q: What physical/athletic requirements are there for midshipmen?
A: Each semester you will take a physical readiness test (push-ups, sit-ups and a 1.5 mile run, each for a grade). We expect you to do well on these tests. Also, each midshipman must pass a swimming test. We require that you work out regularly.

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Q: Can I be in a fraternity or sorority?
A: Yes


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## State Foreign Language Requirement

By action of the Florida Legislature, undergraduate students who enter a state university in Florida are subject to a foreign language admission requirement. To satisfy the requirement, a student must present evidence of:

1. The completion of two years of sequential foreign language or American Sign Language study in high school, or
2. The completion of 8-10 semester hours of sequential foreign language or American Sign Language at the post-secondary level, or
3. Proficiency through a satisfactory score on the MAPS test for Latin or CLEP foreign language examination.

Transfer students are exempt from this requirement if they received an Associate in Arts degree before September 1, 1989, from a Florida public community college or university or were enrolled before August 1, 1989, in an Associate in Arts degree program at a Florida community college and maintained continuous enrollment until admitted to the University. These students do not have to take a foreign language to be admitted to the University; neither do they have to take it prior to graduation unless the program major has a foreign language graduation requirement.

The University may admit applicants who do not meet the foreign language admissions requirement as exceptions. Students admitted as exceptions must complete 8-10 credit hours of foreign language study or 8-10 credit hours of American Sign language or prove proficiency in a foreign language prior to admission at the upper-level through a satisfactory score on the College EntryLevel Assessment (CELA), formerly (MAPS) test, or CLEP foreign language examination. To prove proficiency in a native tongue other than English, students must submit a valid high school academic transcript from their home country.

All incoming students who have studied French and Spanish in high school must take the free online French and Spanish placement tests prior to enrolling at UNF. Based on that score, students will be advised at which course level to enroll should they choose to pursue further studies in French or Spanish.

All heritage or native speakers of French or Spanish (who may not have studied the language in high school) must take the on-line placement test prior to enrolling in French or Spanish courses. In order to be placed appropriately, native speakers of French or Spanish must also meet with the Chair of the Department of Languages, Literatures and Cultures.

All Chinese students who have studied the language at the high school level or who are heritage speakers of the language must meet with the Chair of the Department of Languages, Literatures and Cultures prior to enrollment. The chair will refer them to the Chinese Program Coordinator to ascertain the level at which they must begin their language studies.

Students who enroll in French, Spanish or Chinese at the University of North Florida will be advised that they are eligible for up to six credit hours of retroactive credit as determined by placement and satisfactory completion of specific language courses.

| Course | Title | Credits |
| :--- | :--- | :--- |
| ASL 2140 | American Sign Language I | 4 hours |
| ASL 2150 | American Sign Language II | 4 hours |
| CHI 1120 | Beginning Chinese I | 4 hours |
| CHI 1121 | Beginning Chinese II | 4 hours |
| CHI 2200 | Intermediate Chinese I | 3 hours |
| CHI 2201 | Intermediate Chinese II | 3 hours |
| FOL 1950 | Beginning Foreign Language Study Abroad | $3-6$ hours |
| FOL 2930 | Beginning Foreign Language I | 4 hours |
| FOL 2931 | Beginning Foreign Language II | 4 hours |
| ** FOL 2952 | Intermediate Foreign Language Study Abroad | $3-6$ hours |
| ** FOL 3930 | Special Topics in Foreign Language | $2-4$ hours |
| ** FOL 3953 | Advanced Foreign Language Study Abroad | $3-6$ hours |
| FRE 1120 | Beginning French I | 4 hours |
| FRE 1121 | Beginning French II | 4 hours |
| FRE 2240 | Intermediate French I | 3 hours |
| FRE 2241 | Intermediate French II | 3 hours |
| GER 1120 | Beginning German I | 4 hours |
| GER 1121 | Beginning German II | 4 hours |
| GER 2200 | Intermediate German I | 3 hours |
| GER 2201 | Intermediate German II | 3 hours |
| LAT 1120 | Beginning Latin I | 4 hours |
| LAT 1121 | Beginning Latin II | 4 hours |
| SPN 1120 | Beginning Spanish I | 4 hours |
| SPN 1121 | Beginning Spanish II | 4 hours |
| SPN 1133 | Accelerated Beginning Spanish | 6 hours |
| SPN 2200 | Intermediate Spanish I | 3 hours |
| SPN 2201 | Intermediate Spanish II | 3 hours |
| **Excluding courses focused on literature or culture. |  |  |

Note: Political Science majors may not take American Sign Language courses to satisfy the language requirement.


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## Tuition and Student Fees

Tuition and fees at each public institution in Florida are set by the Florida Legislature with limited flexibility given to university Boards of Trustees. These fees are assessed on the basis of residency, i.e., enrolling students are classified either as "Florida" or "Non-Florida" students.

In the determination of resident status for tuition purposes, it is the policy of the University of North Florida to follow laws of the state of Florida as well as regulations and policy guidelines established by the Florida Board of Governors. The policy on residency status for tuition purposes, as adopted by the University of North Florida, is subject to Florida Statute 1009.21 and the Florida Board of Governors Resolution. The guidelines listed here do not comprise a comprehensive statement regarding residency status for tuition purposes in the state of Florida. For more information, refer to the residency portion of this catalog and the "Residency Guidelines" section at Florida Virtual Campus - FLVC.org.

To view tuition and fee rates, please see the Tuition \& Student Fee Schedule.


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## Fee Schedule

Fees subject to change without prior notice.
Contact the Cashier's Office at(904) 620-2472 or refer to their website for current tuition information.


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## Estimated Expenses Per Academic Year

UNF provides an online net price calculator enabling students to estimate out-of-pocket expenses associated with enrolling at the University. The calculator allows students to change multiple variables to reach a total estimated cost. The actual costs incurred depend upon the individual student. Students who are in need of financial counseling should request this assistance through One Stop Student Services.


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## Fee Payment

All fees must be paid or pended in the Cashier's Office by the date and time listed in the University Calendar online. Failure to pay or pend (based on financial aid or third party sponsorship) may result in registration cancelation. A $\$ 100$ late payment fee will be assessed on all fees not pended or paid in full by the date and time listed in the University Calendar. If your tuition bill is deferred against pending financial aid, your aid must be disbursed to your account prior to the expiration date for financial aid or you will be assessed a $\$ 100$ late fee. FINANCIAL AID IS NOT AUTOMATIC. You should check your myWings account on the status of your aid and to ensure that you have completed all documents, signed promissory notes for loans, etc. NOTE: You must be enrolled in at least six credit hours to qualify for Bright Futures and student loans.

A fee transaction, regardless of amount, confirms a student's intention to attend all courses for which he/she is still registered at the close of the drop/add period, and grades will be assigned unless the student officially withdraws. Students are fee liable for all courses they register for (unless they drop the course by the published deadlines to do so) regardless of attendance in the class.

A fee payment check returned for any reason (i.e., insufficient funds, stop payment, account closed, wrong account number for e-check) does not cancel the student's fee liability. A service charge and a $\$ 100$ late payment fee will be assessed and the payment must be made by cash, money order or certified check. If the University has received one returned check, future payments must be made with certified funds (cash, money order, credit card). Personal checks will not be accepted. A returned e-check for an incorrect account number will result in the assessment of a $\$ 100$ late payment fee if restitution is not made by the payment deadline. A third return for an incorrect account number for an e-check will result in a $\$ 25$ service charge (in addition to the $\$ 100$ late payment fee, if appropriate) and payment must be made by cash, money order or certified check. Personal checks will not be accepted.


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## Florida Prepaid

There are two main types of tuition prepaid contracts-tuition or tuition and local fees. Tuition accounts cover the tuition, financial aid \& capital improvement fees at the undergraduate rate (see the current tuition and fee schedule). The students with tuition only accounts will have to pay the local fees (see the current tuition and fee schedule) by the tuition deadline to avoid a $\$ 100$ late payment fee assessed to their account. Students who have tuition and local fee accounts have most of their fees covered, but will have the technology fee, transportation access fee, student life and services fee (see the current tuition and fee schedule) and other nominal charges (such as lab, orientation or ID card fee) to pay.

The Cashier's Office automatically defers the Prepaid amount on the student's bill based on the number of credit hours registered or the number of hours remaining on the student's prepaid plan, whichever is less. This amount will display on myWings as "Estimated Financial Aid" on "View \& Pay My Bill." Students who do not want the University to bill Prepaid for a particular semester, must complete an opt-out form by the end of the first week of the semester. The form is only available online via the Student Self Service Online Forms within MyWings. The opt-out form is valid for one semester only, and must be completed every semester you wish to opt out. Students who have Florida Prepaid for residence hall charges must submit a copy of their Prepaid card to housing by the due date. The payment is not posted to the students' accounts until the payment is received by Florida Prepaid.


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## Waiver of Tuition

## Florida Residents over 60 Years of Age

Waivers are available to Florida citizens over the age of 60 . Citizens using these waivers are restricted to registering in certain courses on a space-available basis and must register using the Audit grade mode (seating privilege). Registration may be done in person or via myWings on the date(s) listed on the website, normally the last business day prior to the start of the semester but this day may vary due to holidays. No waivers will be processed after this date. Waivers do not apply to late registration, re-registration fees, or miscellaneous fees.

## Children of law enforcement officers and firefighters who are unlawfully and intentionally killed while performing their duties

Florida statutes provide that the state shall pay certain educational expenses for the children of law enforcement officers and firefighters who are unlawfully and intentionally killed while performing their duties. Additionally, any dependent child of a Special Risk member of the Florida Retirement System may receive a full waiver of undergraduate fees at a state university if the Special Risk member was killed in the line of duty. Check for all registration and deadline information at One Stop Student Services, (904) 620-5555.


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## Fee Refunds

Full refunds will be issued for each course dropped before the close of the add/drop period indicated in the University Calendar online. Students can drop courses in person, or online via the myWings Web portal. A full refund will be made for University cancellation of courses or denial of a student's admission to a course. Courses dropped within this period will not appear on the student's transcript.

After the close of the add/drop period, students who completely withdraw from the University will receive a 25 percent refund (less repeat surcharge, excess hour assessment, capital improvement fee and other miscellaneous fees). This refund is dependent on the University's approval of a student's written notice of withdrawal from the University. Such written notice should be made in person at One Stop Student Services by the date indicated in the University Calendar as the last day to receive a 25 percent refund; however, written notice of withdrawal may be given by mail postmarked by the 25 percent refund deadline. This 25 percent refund applies only to fall, spring, and cross-term summer. There is no refund for a partial withdrawal after the add/drop period.


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## Reinstatement of Registration

Students whose registrations are canceled due to failure to pay or pend fees may submit their request for reinstatement online via the myWings web portal prior to the reinstatement deadline (which is the end of the third week of classes as noted in the University Calendar that appears online). Students must reinstate in all courses for which they were originally registered. If reinstatement is approved, the student must immediately pay all delinquent financial liabilities and will be charged a $\$ 100$ re-registration fee and a $\$ 100$ late payment fee.


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## Fee Petitions \& Financial Holds

## Fee Petitions

To request a full refund after the add/drop period, a student may file a petition if one of the following conditions are met and documentation is provided:

1. Student's involuntary call to active military duty
2. Death of a member of the student's immediate family (parent, spouse, child, sibling)
3. Incapacitating illness of such duration or severity, as confirmed in writing by a physician, that completion of the term is impossible
4. A situation in which the University is in error

To file a fee petition, a student, or someone acting on the student's behalf with written authorization, must:

1. Officially withdraw from the course(s) or the University;
2. Complete a fee petition online via myWings and attach documentation supporting one of the conditions indicated above.

The petitioner will receive an email confirmation that the petition was successfully submitted and will be notified of outcome after committee review. Students have six months from the end of the semester in question to file a fee petition. Petitioning for a refund is not a guarantee that a refund will be approved. The decision of the Fee Committee is final. By state statute, students may not petition for a refund of the third attempt repeat surcharge. Miscellaneous fees such as Orientation, ID or WOW are NOT petitionable.

Tuition fee refunds provided to students will be processed against any outstanding charges prior to remitting a refund to the student.

## Financial Holds

Failure to pay outstanding amounts due UNF will result in a financial hold being placed on the student's records and the registration process and the assessment of a $\$ 100$ late payment fee. A financial hold prohibits processing of requests for transcripts, registration, reinstatement, enrollment verification, release of grades, and receipt of diploma until the debt is cleared by the Cashier's Office. Continued failure to pay may result in the account being sent to a collection agency with additional collection costs up to 33.3 percent being assessed to the account.


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## Osprey 1Card

The Osprey 1Card is the official identification card of the University of North Florida. Issued to all members of our community, it is required for identification, access to essential campus services, and offers prepaid convenient accounts for making purchases on and off campus.

Your Osprey 1Card is THE most important card that you will have at the University of North Florida vital for accessing campus services. Please carry your card with you at all times. To ensure durability and validity, do not tamper with, punch holes in, or misuse the card, and protect it from damage by avoiding magnets and keeping it in the card sleeve provided.

For more information, visit the Osprey 1Card Office website or visit us in person.
Osprey 1Card Office
Building 8, 1st floor, Room 1100
Monday - Tuesday 8:00 am - 6:00 pm
(except during intersession)
Wednesday - Friday 8:00 am - 5:00 pm


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## Parking \&Permit Fees

## UNF Parking Services Information

All vehicles parking on campus must display a valid UNF parking permit. Students who do not buy an annual or term permit should park in Lot 18 or Lot 53 and purchase a Day Permit from the permit dispensers for $\$ 2.80$ plus sales tax $=\$ 3.00$ total per day. All annual and term permits must be purchased online via myWings Web portal. The ability to purchase permits opens to students at different times in July depending on the number of completed credit hours and/or whether or not the student is commuting or living in University housing. Students must be registered for classes in order to purchase annual or term permits. Please check the web site at the link noted above for more information.

Fees for permits available to students August 2013 - August 2014:

## Premium Annual

Premium Term
Night (after 5pm) Premium Annual
Night (after 5 pm) Premium Term
Housing Annual
Housing Term
Lot 14/18/53 Only Annual
Lot 14/18/53 Only Term
Motorcycle Annual

$$
\begin{aligned}
& \$ 149.53+\text { sales tax }=\$ 160.00 \text { total } \\
& \$ 88.78+\text { sales tax }=\$ 95.00 \text { total } \\
& \$ 88.78+\text { sales tax }=\$ 95.00 \text { total } \\
& \$ 51.40+\text { sales tax }=\$ 55.00 \text { total } \\
& \$ 191.58+\text { sales tax }=\$ 204.99 \text { total } \\
& \$ 116.82+\text { sales tax }=\$ 125.00 \text { total } \\
& \$ 88.78+\text { sales tax }=\$ 95.00 \text { total } \\
& \$ 51.40+\text { sales tax }=\$ 55.00 \text { total } \\
& \$ 60.74+\text { sales tax }=\$ 65.00 \text { total }
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All permits must be purchased online and will be mailed to the address provided during the purchase process. The permits are decals which must be displayed unaltered and permanently affixed using the permit's adhesive properties to the exterior of the vehicle, either on the left side rear window or the left side rear bumper. Please check the web site at the link noted above or call (904) 620-2815 for general parking information.

## Shuttle Bus Service

## UNF Shuttle Bus Information

The Osprey Connector is the on-campus shuttle bus service providing easy access from lots 18 and 53 to the core of campus and return. Operating hours are usually Monday through Friday 7 a.m. to 3 a.m. On Sunday evenings from $6 \mathrm{p} . \mathrm{m}$. to 12 a.m. shuttle bus service is provided from lot 53 to the residence halls. Shuttle bus service is also provided from the Library to the St. Johns Town Center. Operating hours are usually Monday through Thursday 10 a.m. to 4 p.m. and Friday through Sunday 11 a.m. to 3 p.m.

A transportation access fee of $\$ 4.08$ per credit hour will be charged to all students. Students are not required to show ID nor pay any additional amount when utilizing the shuttle service.

For more information on the shuttle and route maps, please check the web site at the link noted above or call (904) 620-5718.

While all busses are ADA accessible, the Osprey Transit is a bus service dedicated to assist those with mobility needs by providing pick-up and drop-off service beyond the Osprey Connector shuttle stops. Operating hours are typically 7:30 a.m. to 9:30 p.m. Monday - Friday. Service can be scheduled by calling (904) 620-2370.


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## Florida Residency for Tuition Purposes

Tuition and fees at each public institution in Florida are set by the Florida Legislature with limited flexibility given to university Boards of Trustees. These fees are assessed on the basis of residency, i.e., enrolling students are classified either as "Florida" or "Non-Florida" students

In the determination of an applicant's resident status for tuition purposes, it is the policy of the University of North Florida to follow laws of the state of Florida, as well as regulations and policy guidelines established by the Florida Board of Governors. The policy on residency status for tuition purposes as adopted by the University of North Florida is subject to Florida Statute 1009.21 and the Florida Board of Governors Regulation.

The law allows U.S. citizens and lawful permanent residents to be classified as Florida residents for tuition purposes if the applicant or the dependent applicant's parent/legal guardian has been a legal resident of the state for at least 12 months preceding the first day of classes of the term for which Florida residency is sought.

A student must submit proper documentation before being classified as a Florida resident for tuition purposes. For the most current, comprehensive guidelines for residency documentation requirements and regulations, please visit the "Residency Guidelines" section at Florida Virtual Campus -FLVC.org. For information regarding the procedures by which the documents are processed at the University of North Florida, please visit our website.

To view other admissions information, please visit the All Students section of the catalog.
To view the University's current official policy, click here.


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## Reclassification of Residency Status

In the determination of residency reclassification requests, it is the policy of the University of North Florida to follow laws of the state of Florida, as well as regulations and policy guidelines established by the Florida Board of Governors. The policy on residency reclassification for tuition purposes as adopted by UNF is subject to Florida Statute 1009.21 and the Florida Board of Governors Resolution.

Students must submit proper documentation before being reclassified as a Florida resident for tuition purposes. All requests for change of residency with supporting documentation should be submitted to One Stop Student Services within the deadline period noted in the Academic Calendar. Requests will be reviewed and approved if documentation meets state of Florida residency reclassification requirements. If the reclassification request is denied, the student may file an appeal, in writing, through the Enrollment Services Appeals Committee. Students must provide copies of all documentation with their appeals. Students will be notified by email of the final reclassification decision.

For the most current, comprehensive guideline to residency documentation requirements and regulations, visit the "Residency Guidelines" section at Florida Virtual College - FLVC.org. For information regarding the procedures by which the documents are processed at the University of North Florida, please visit our website.


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## Student Financial Aid

## Application Procedures

The financial aid program at the University of North Florida is committed to serving all students. Its purpose is to provide financial assistance for students who would be unable to further their education without such support. Educational opportunities should not be limited by the financial resources of the students and their families, although the University expects students and/or their families to make a maximum effort to help with University expenses.

UNF provides a comprehensive student financial aid program. All aid is based on individual need, educational costs, and availability of funds. Awards may consist of scholarships, loans, grants, and/or employment. Funds are limited; therefore, students are encouraged to complete an application for financial aid no later than the March 1 priority date for early consideration. Applications received after March 1 are considered on a funds-available basis only. Inquiries concerning financial aid should be directed to One Stop Student Services. To apply for aid, the the students must:

1. Complete and submit an error-free Free Application for Federal Student Aid (FAFSA). You may complete your FAFSA at www.fafsa.ed.gov.
2. If selected for verification, students will be required to provide copies of relevant signed federal income tax transcripts (1040, 1040A, 1040EZ, and W2 Forms). Dependent students must also provide parent tax information. Independent, married students must provide spouse tax information. Other information may also be requested to meet federal verification regulation requirements.
3. To be awarded financial aid, a student must be accepted into a degree-seeking major and be enrolled in a sufficient number of credit hours. Courses taken in an audit status are not eligible for financial aid, nor can they be considered when determining sufficient enrollment for financial aid.
4. For financial aid purposes, full-time enrollment is defined as a minimum of 12 credit hours per semester for undergraduate and post baccalaureate students and a minimum of nine credit hours per semester for graduate students. Students who enroll less than full time may have their awards reduced or, in some cases, cancelled.

## Return of Title IV Aid

Withdrawing from classes will affect the percentage of hours earned. Students who withdraw from classes and have received Title IV Aid, to meet educational expenses for an entire semester, will be required to repay the amount of unearned aid. The unearned amount of federal program funds is calculated based on the percentage of the semester completed prior to the date of withdrawal. The repayment amount is determined by the Federal Formula for Return of Title IV funds (Section 484B of the Higher Education Act). According to federal regulations, only students who complete at least $60 \%$ of the term are considered to have earned all of their aid. Students who did not attend any
classes will be required to return all funds disbursed. Title IV unearned aid must be returned to the applicable federal programs in the following order:

- Federal Direct Unsubsidized Stafford Loans
- Federal Direct Subsidized Stafford Loans
- Federal Direct Graduate PLUS Loans
- Federal Direct PLUS Loans (for parents)
- Federal Pell Grants
- Federal Supplemental Educational Opportunity Grants
- Federal Teach Grant


## Tuition Deferment

If a student accepts a financial aid award, the University will automatically defer the payment of tuition for approximately five weeks after the semester begins. The deferment of tuition and fees against anticipated financial aid will expire several weeks into the semester. If a student's anticipated aid has not disbursed by the time the deferment expires, the student may have a late payment fee assessed. In these situations, the financial aid is not necessarily lost or cancelled; it simply indicates the tuition deferment has expired. Students should proactively monitor their myWings and UNF email accounts for financial aid requirements and/or messages. Some types of aid are excluded from tuition deferment, including both the Federal Work-Study Program and Florida Prepaid Program.

A student who cannot automatically defer the tuition must make payment online via myWings or in person at the Cashier's Office by the payment deadline posted on the Academic Calendar.

A student whose aid has not disbursed by the fourth week of classes must make payment online via myWings or in person at the Cashier's Office by the end of the fifth week of classes to avoid late fees and registration holds.

## Financial Aid and Scholarship Disbursement

The first disbursement of financial aid refund checks occurs after the third week of classes. As students' files are cleared, financial aid refunds are issued to eligible students on a weekly basis throughout the term. Under the Federal Direct Stafford Loan Program, first time borrowers at UNF must complete a loan entrance interview and sign a Master Promissory Note before funds are released. Please note that all tuition/fees, housing charges, and other University debts will be deducted from the student's financial aid before any other action is taken. Once all institutional fees have been paid, any residual funds will be electronically deposited into the student's bank account.

NOTE: All financial aid recipients should be prepared to purchase textbooks and to meet their living expenses during the first four weeks of class.

For more information, please contact One Stop Student Services.

## Satisfactory Academic Progress Policy

Students are required, by federal regulations, to demonstrate satisfactory academic progress toward the completion of a degree within a specified time frame. Students receiving any assistance under the Title IV Program must comply with these conditions to remain eligible. Academic progress will be evaluated at the end of each semester to determine eligibility. This evaluation is designed to measure the student's ability to: maintain a satisfactory grade point average, successfully complete a required ratio of attempted credit hours, and receive a degree in a timely manner.

To view the University's official Satisfactory Academic Progress policy, click here.


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## Types of Undergraduate Financial Aid

Federal Pell Grant: The Federal Pell Grant is a federal aid program designed to provide financial aid to undergraduate students. Pell Grants are intended to be the "base" of a financial aid package and may be combined with other forms of aid in order to meet the cost of attendance. The amount of the grant is determined on the basis of student and the family resources.

Federal Supplemental Educational Opportunity Grant Program (FSEOG): Federal SEOG grants are designed to assist undergraduate students who demonstrate an exceptional financial need and qualify for a Federal Pell Grant. Award amounts are based on the amount of need and availability of funds.

Florida Student Assistance Grant (FSAG): The Florida Student Assistance Grant Program was established to provide awards to qualified undergraduate students who are Florida residents attending accredited colleges, universities, and community/junior colleges in Florida and demonstrate a need by qualifying for a Federal Pell Grant. Students must also demonstrate exceptional financial need and be enrolled full-time ( 12 credit hours or more) at UNF. Limited funding is available to eligible applicants enrolled in 6 to 11 credit hours. Students may apply by submitting an error-free Free Application for Federal Student Aid (FAFSA) by our priority deadline of March 1.

UNF Institutional Grants: The University of North Florida offers a variety of grants for undergraduate students who demonstrate financial need. Awards range from \$300 to \$1500 per academic semester.

William D. Ford Direct Loan Program: Federal Direct Loans are awards that must be repaid. UNF encourages students to make informed decisions when opting to borrow under ANY student loan program. Federal Direct Loans are administered by the U.S. Department of Education. Direct Subsidized loans are need-based loans. Direct Unsubsidized loans are non- need-based loans.

Federal Direct Subsidized Stafford Loan Program: Non-credit based, Direct Subsidized loans are for students who demonstrate financial need, as determined by their cost of attendance minus expected family contribution and other financial aid (such as grants and scholarships). Subsidized loans do not accrue interest while students are enrolled in school or during authorized periods of deferment. Loan repayment will begin at the end of the six-month grace period extended by the Federal Government upon graduation.

Federal Direct Unsubsidized Stafford Loan: Non-credit based, Direct Unsubsidized loans are for students who do not demonstrate need, or who have exhausted their need-based aid before reaching the estimated cost of attendance. Students are required to pay the interest while in school but have the option to defer the interest payments until the loan enters repayment. Once a student drops to enrollment status of less than half time, repayment on loans will begin.

Federal Direct Parent PLUS Loan Program: The Direct Parent PLUS loan is an unsubsidized loan
for the parents of dependent students. PLUS loans are credit-based; therefore, the borrower cannot have an adverse credit history and must complete a credit review. PLUS loans help pay for education expenses up to the cost of attendance minus all other financial aid. Interest is charged once the loan is disbursed.

## Federal Work-Study:

The Federal Work-Study Program is a federal program supported with matching funds from UNF. This program provides employment opportunities and work experience to students while they attend school. Students are paid an hourly rate on a bi-weekly basis. Students must demonstrate financial need through completion of the FAFSA (www.fafsa.ed.gov) and be enrolled in at least six credit hours

## Out-of-State Tuition Waivers

Out-of-State tuition may be waived for certain full- and part-time enrolled non-residents who have skills or abilities which will contribute to the academic environment of the University. UNF attracts a great majority of its students from Northeast Florida. In an effort to create a diversified student body, the University actively seeks a limited number of students who reside outside of Florida. Nonresident students should contact the individual college to apply. Awards are made based on the availability of funds.

## Appeals Procedure

Anappeal is a request for re-evaluation of the offer of financial assistance based upon changes in the circumstances reported on the application for financial aid. If a student believes that some aspect of his/her financial situation, which would affect the evaluation of financial need, was overlooked during the award process, the student is entitled to an appeal. To request an award reevaluation, please contact One Stop Student Services. Appeals of financial aid offers are subject to federal, state, and University regulations, as well as available funds.

## Scholarship Programs

The University of North Florida offers a comprehensive scholarship program to attract and reward students who have superior talent in academics, athletics, fine arts, and extracurricular activities. To be considered for any UNF scholarship, a student must first apply and be admitted to the University. Because many of our scholarships require that students file the Free Application for Federal Student Aid (FAFSA), we recommend that all students interested in scholarships complete the FAFSA. This process can be completed online. Visit the Department of Education's website at www.fafsa.ed.gov for detailed information on completing the FAFSA.

Institutional Scholarships: All students who apply and are admitted to UNF are automatically considered for freshman scholarships based on their admissions application information. Scholarships are awarded based on a variety of factors, including high school grade point average, school course selection, and SAT or ACT test scores. Transfer students may also be considered for institutional scholarships based on their admissions application information, transfer grade point average, and intended major.

Foundation Scholarships: Foundation scholarships are funded through contributions made to the University from private donors. These awards have specific eligibility requirements and stipulations regarding the awarding and monitoring of the scholarships which have been established by the donor and the University. Please visit the UNF Financial Aid website for detailed information concerning these scholarships.

State Scholarships: State scholarships are funded by the state of Florida. The state determines the recipients as well as when and how these awards are allocated. The University must confirm student eligibility. The most prominent example of a state funded scholarship is the Florida Bright Futures Scholarship Program. Students work with their high school guidance counselors to apply for the Florida Bright Futures Scholarship during their last year in high school. To learn more about the Florida Bright Futures Scholarship Program, visit their website. For other information concerning state-sponsored scholarships, visit the state website.


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## Undergraduate Scholarship Programs

The University of North Florida offers a comprehensive scholarship program to attract and reward students who have superior talent in academics, athletics, fine arts, and/or extracurricular activities. To be considered for any UNF scholarship, a student must first apply and be admitted to the University. Because many of our scholarships require that students file the Free Application for Federal Student Aid (FAFSA), we recommend that all students interested in scholarships complete the FAFSA. This process can be completed online. Visit the Department of Education's website at www.fafsa.ed.gov for detailed information on completing the FAFSA.

Undergraduate scholarships may be categorized into three distinct areas: Institutional, Foundation, and State Scholarships.

- Institutional Scholarships: All students who apply and are admitted to UNF are automatically considered for freshman scholarships based on their admissions application information. Scholarships are awarded based on a variety of factors, including high school grade point average, school course selection, and SAT or ACT test scores. Transfer students may also be considered for institutional scholarships based on their admissions application information, transfer grade point average, and intended major.
- Foundation Scholarships: Foundation scholarships are funded through contributions made to the University from private donors. These awards have specific eligibility requirements and stipulations regarding the awarding and monitoring of the scholarships which have been established by the donor and the University. Please visit the UNF Financial Aid website for detailed information concerning these scholarships.
- State Scholarships: State scholarships are funded by the state of Florida. The state determines the recipients, as well as when and how the awards are allocated. The University must confirm student eligibility. The most prominent example of a state-funded scholarship is the Florida Bright Futures Scholarship Program. Students work with their high school guidance counselors to apply for the Florida Bright Futures Scholarship during their last year in high school. To learn more about the Florida Bright Futures Scholarship Program, visit their website. For other information concerning state-sponsored scholarships, visit the state website.

The following sites contain valuable information about scholarships available to UNF undergraduate students.

## UNF Scholarships

- Freshmen
- Transfer Students
- International Students
- First Generation Students
- Student Government
- Undergraduate Students by College


## Other Resources

- Florida Student Scholarship and Grant Programs
- Scholarships FAQ
- Scholarships and Other Student Aid Resources
- Study Abroad Scholarships
- Honors \& Scholars Scholarships and Grants
- Scholarship Appeal Form



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## Types of Graduate Financial Aid

Federal Direct Unsubsidized Stafford Loan: Non-credit based, Direct Unsubsidized loans are for students who do not demonstrate need, or who have exhausted their need-based aid before reaching their estimated cost of attendance. Students are required to pay the interest while in school, but they have the option to defer these interest payments until the loan enters repayment. Once a student drops to an enrollment status of less than half time, repayment on loans will begin.

Federal Work-Study: The Federal Work-Study Program is a federal program supported with matching funds from UNF. This program provides employment opportunities and work experience to students while they attend school. Students are paid an hourly rate on a bi-weekly basis. Students must demonstrate financial need through completion of the FAFSA (www.fafsa.ed.gov) and be enrolled in at least six credit hours.

Federal Direct Graduate PLUS Loans: The Direct Graduate PLUS Loan is a low-interest loan available to assist students admitted and enrolled in a graduate or professional degree program. The student's eligibility for a Direct Graduate PLUS loan is determined by a credit check conducted by the U.S. Department of Education. An eligible graduate student may borrow up to the cost of education minus other aid. Students are required to pay the interest while in school but have the option to defer the interest payments until the loan enters repayment. Once a student drops to an enrollment status of at less than half time, repayment on loans will begin.

Graduate Assistantships: A limited number of graduate assistantships and fellowships are available to qualified students. Continuation of the award is based on the student's satisfactory performance in both academic and assigned duties. Graduate students who wish to apply for assistantships should write to the chairperson of the department in which they plan to enroll. Graduate students must be enrolled in nine semester hours for fall and for spring or six semester hours for summer to be employed and classified as a graduate assistant.

TEACH Grant: Through the College Cost Reduction and Access Act of 2007, Congress created the Teacher Education Assistance for College and Higher Education (TEACH) Grant Program that provides grants of up to $\$ 4,000$ per year to students who intend to teach in a public or private elementary or secondary school that serves students from low-income families. Students who receive a TEACH Grant but do not complete the required teaching service, as explained above, are required to repay the grants as a Federal Direct Unsubsidized Stafford Loan, with interest charged from the date of each TEACH Grant disbursement. For additional information, please visit the TEACH website. To receive a TEACH Grant, students must meet the following criteria:

- Complete and submit an error-free Free Application for Federal Student Aid (FAFSA) at www.fafsa.ed.gov, although students do not have to demonstrate financial need.
- Be a U.S. citizen or eligible non-citizen.

Be enrolled as an undergraduate, post-baccalaureate, or graduate student in a postsecondary educational institution that has chosen to participate in the TEACH Grant Program.

- Be enrolled in coursework that is necessary to begin a career in teaching or plan to complete such coursework. Such coursework may include subject area courses (e.g., math courses for a student who intends to be a math teacher).
- Meet certain academic achievement requirements (generally, scoring above the 75th percentile on a college admissions test or maintaining a cumulative GPA of at least 3.25).
- Sign a TEACH Grant Agreement to Serve.


## Graduate Matriculation Fee Waivers

The state of Florida funds a limited number of graduate matriculation fee waivers for graduate students who are on either graduate assistantships or fellowships. These matriculation fee waivers can be used to offset a portion of a graduate student's in-state tuition. A student must be a fullyadmitted graduate student to qualify under this program. Because each college administers this program using different requirements, students are encouraged to contact their individual college as early as possible to determine their eligibility.

## Out-of-State Tuition Waivers

Out-of-State tuition may be waived for certain full- and part-time enrolled non-residents who have skills or abilities which will contribute to the academic environment of the University. UNF attracts a great majority of its students from Northeast Florida. In an effort to create a diversified student body, the University actively seeks a limited number of students who reside outside of Florida. Nonresident students should contact the individual college to apply. Awards are made based on the availability of funds.

## Appeals Procedure

An appeal is a request for re-evaluation of the offer of financial assistance based upon changes in the circumstances reported on the application for financial aid. If a student believes that some aspect of his/her financial situation, which would affect the evaluation of financial need, was overlooked during the award process, the student is entitled to an appeal. To request an award reevaluation, please contact One Stop Student Services. Appeals of financial aid offers are subject to federal, state, and University regulations, as well as available funds.


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## Graduate Scholarship Programs

Graduate students interested in scholarship information may obtain additional information from The Graduate School. Please visit the website for additional information.

## UNF Graduate Scholarships

Each year, the University of North Florida sets aside money to support a limited number of graduate scholarships. A student must be a fully-admitted graduate student to qualify under this program. Because each college administers this program using different requirements, students are encouraged to contact their individual college as early as possible to determine eligibility.

In addition to college-specific scholarship opportunities, The Graduate School administers two scholarship programs for graduate students.

## Delores A. Auzenne Fellowship for Graduate Study

The Delores A. Auzenne Fellowship for Graduate Study is designed to assist the University in increasing enrollment of minority graduate students in disciplines in which there is underrepresentation of the minority group at the graduate level. Additional information may be found online.

## Graduate Scholars Program

This programs offers aid to students who are pursuing projects of their own initiation that contribute to their activity as scholars (for example, the presentation of a paper at a scholarly conference). These are modest, one-time awards to cover costs associated with these sorts of scholarly activities. Additional information may be found online.

## Fellowships, Grants, and Scholarships

The University of North Florida has fellowships, grants, and scholarships available for graduate students. Graduate students should contact their Graduate Program Director for additional information.


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## VA Programs, Eligibility \& Benefits

One Stop Student Services is available to assist veterans eligible for any of the educational benefit programs administered by the Veterans Administration. Students who believe that they are eligible for benefits may receive assistance by calling One Stop Student Services at (904) 620-5555. All degree programs at UNF are approved for VA purposes by the State Approving Agency for veterans training. Any questions concerning this process should be referred to One Stop Student Services. Students must expect a possible delay of up to 60 days for receipt of benefits during their first term at UNF to allow for processing of forms at the regional level.

## Applying for Benefits

Students may apply online through the Department of Veterans Affairs Online Application (VONAPP), located at http://vabenefits.vba.va.gov/vonapp/main.asp. Students without the capability to apply online can call 1-888-GI-BILL-1 to have a form mailed or visit One Stop Student Services to obtain a paper application.

Recommended schedule for the submission of forms:

- First application 10 weeks before semester
- Transfer from out-of-state 10 weeks before semester
- Transfer from school in Florida 6 weeks before semester
- Return to UNF after two semester absence 6 weeks before semester

Initial certification can be made for one semester during which time the student may be waiting for transcripts or test scores (e.g., GMAT, GRE or SAT). However, undergraduates may not be certified for a second term until fully admitted into a degree program. For information about career advisement and placement services, see the Career Services website.

Students who plan to attend UNF under any of the veterans training programs must contact One Stop Student Services to establish initial certification. In subsequent semesters, One Stop Student Services will automatically certify enrollment for courses appearing on the Veterans Education recipient's UNF Degree Evaluation. Students must see One Stop Student Services to opt out of automatic certification for any given semester or course.

## Benefit Chapters

Chapter 30 - Montgomery G.I. Bill: First entered active duty July 1, 1985 or later and completed initial obligated period of active duty of two years or more or who completed two years of active duty and entered the selective reserve for four or more years. Certain Chapter 34-eligible students are entitled after December 31, 1989. Student is responsible to pay tuition and fees to the school by the payment deadline. VA will pay a monthly stipend to the student based on certified hours of enrollment.

Chapter 31 - Vocational Rehabilitation: Must have a service-connected disability rated at 10 percent or more which causes a demonstrable employment handicap, and signed up prior to April 1, 1987 to make contributions. VA will pay tuition and fees, and other costs on a case by case basis, directly to UNF. VA will also pay a monthly subsistence allowance to the student based on actual enrollment.

Chapter 32 - Veterans Educational Assistance Program: Served on active duty for at least 181 continuous days and enlisted for the first time between January 1, 1977 and June 30, 1985 inclusive, and signed up prior to April 1, 1987 to make contributions. Certain persons could have converted to Chapter 30 by October 1, 2001. Student is responsible to pay tuition and fees to the school by the payment deadline. VA will pay a monthly stipend to the student based on certified hours of enrollment.

Chapter 33 - Post 9/11 G.I. Bill: Served on full-time active duty for at least 90 aggregate days or at least 30 days with a disability discharge after September 11, 2001. Benefit level will be based on length of service. VA will pay tuition and fees not to exceed the maximum in-state tuition and fees at a public institution, prorated based on benefit level and actual hours of enrollment. VA will pay a monthly Basic Allowance for Housing and an annual books and supplies stipend to students enrolled more than half-time, prorated based on benefit level.

Chapter 35 - Dependents Educational Assistance Program: Spouse and/or child of a veteran with permanent and total service-connected disability; or whose death was service connected; or who died of any cause while rated as having a permanent and total service-connected disability. Student is responsible to pay tuition and fees to the school by the payment deadline. VA will pay a monthly stipend to the student based on certified hours of enrollment.

Chapter 1606 - Montgomery G.I. Bill Selected Reserve: Enlisted personnel: enlisted, re-enlisted, or extended Selected Reserve enlistment for a six-year period after June 30, 1985. Officers: added six years to current Selected Reserve obligation after June 30, 1985. Student is responsible to pay tuition and fees to the school by the payment deadline. VA will pay a monthly stipend to the student based on certified hours of enrollment.

Chapter 1607 - Reserve Educational Assistance Program: Reservists who served on active duty for at least 90 consecutive days for a contingency operation after September 1, 2001. Benefit level will be based on time served on active duty. Student is responsible to pay tuition and fees to the school by the payment deadline. VA will pay a monthly stipend to the student based on certified hours of enrollment and benefit level.


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## VA Certification of Enrollment

Veterans Affairs certifies school attendance to the appropriate Veterans Administration office.

## Undergraduate/Graduate Training Time Definitions - For a Standard Term

|  | Undergraduate | Graduate |
| :--- | :---: | :---: |
| Full Time | 12 or more hours | 9 or more hours |
| Three-Quarter <br> Time | $9-11$ | $7-8$ |
| Half Time | $6-8$ | $4-6$ |
| Less than Half <br> Time/More than <br> One-Quarter <br> Time | $4-5$ | $1-3$ |
| One-Quarter <br> Time |  | $1-3$ |

To expedite processing of enrollment certification, students should request certification of their credit hours for VA education benefits online. More information regarding student responsibilities is available online.

In order to be eligible for benefits, veterans must maintain the same academic and conduct standards expected of all UNF students. Students will be placed on unsatisfactory progress status and benefits will be suspended when both the cumulative and term grade point average fall below a satisfactory level during the term following probation status. Undergraduate students who possess both a cumulative and current term UNF grade point average below 2.0, College of Education and Human Services students below 2.5, and Graduate students below a 3.0 are considered to have fallen below a satisfactory level. All veterans should consult One Stop Student Services for specific information about requirements for benefits. Contact One Stop Student Services at (904) 6205555, Hicks Hall.

## VA Work-Study

Veterans receiving VA educational benefits, who are enrolled at three-quarter training time or more, are eligible for VA Work Study programs. If you are interested in these programs, contact One Stop Student Services at (904) 620-5555.

## Withdrawal for Military Service

Students who are called to active duty and unable to complete a semester may request a withdrawal from registered courses due to military service. The grade on the transcript will be "WS" and a tuition refund is generated. A copy of the orders is required to receive a withdrawal for military service.


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## Servicemembers Opportunity Colleges

The University recognizes the need for greater flexibility in the evaluation of educational experiences of veterans, military personnel and their families, and is a member of the Servicemembers Opportunity Colleges (SOC).

For additional information, contact One Stop Student Services online; at Hicks Hall, Building 53, Suite 1700; or by phone, (904) 620-5555.

## Veterans Affairs and Military Programs

Veterans Affairs and Military Programs advice is available to assist military personnel, their dependents, and veterans eligible for any of the educational benefit programs administered by the Veterans Administration. Currently, there are six VA Educational Assistance programs: the Post9/11 GI Bill, the Montgomery GI Bill, Vocational Rehabilitation, Veterans Education Assistance Program (VEAP), Dependents Educational Assistance, and Educational Assistance for the Selected Reserve. For additional information on these programs, refer to the Financial Information section of the catalog.

In addition to other services, One Stop Student Services provides the following services:

- Evaluation of military training courses
- VA educational benefits counseling
- Certification of enrollment for educational benefits
- Determination of continued eligibility by academic progress and/or changes in course load
- Documentation and programs of study for degree completion programs
- Liaison with military and veteran students and the Veterans Administration


## Military Policy Agreement:

As a part of the University's continuing commitment to provide educational opportunities for activeduty military personnel and their spouses, and retired military personnel, a formal policy facilitating the transfer of academic credit was adopted in October of 1987. This policy allows active duty military personnel stationed in Florida, their spouses, and retired military personnel who hold associate in arts degrees from regionally accredited institutions to transfer as juniors to UNF. To determine eligibility, applicants must provide documentation of an acceptable associate in arts degree and verification of their status to One Stop Student Services.

Prior to graduation, students must meet the provisions of 240-2333, Florida Statutes (1988) regarding the statewide foreign language requirement and the provisions of State Rule, 6A-10.030, College-Level Communication and Computation Skills, known as the Gordon Rule.


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## Student Employment at UNF

The Federal College Work-Study Program (FWSP) is a limited, need-based federally funded parttime employment program, which allows eligible students to earn money to help pay for educationrelated expenses. Students must complete the Free Application for Federal Student Aid (FAFSA) each year to be considered for federal financial aid, including FWSP.

If a student has not been offered Federal College Work-Study as a part of the financial aid award, then the student: a) was not eligible, b) did not request work-study on the FAFSA and/or, c) funds were not available at the time the award was requested. Work Authorization and Payroll paperwork must be completed before students begin employment.

For the purpose of employment at the University of North Florida, and in order to be considered a student exempt from the payment of the Federal Insurance Contributions Act (FICA), student workers must be enrolled at least half-time and regularly attend classes at UNF.

Student workers participating in the Federal College Work-Study Program (FWSP) at the undergraduate or graduate level are required to be degree seeking, enrolled in a minimum of six credit hours at UNF during each term in which they participate (fall, spring, and summer) and are limited to 20 work hours per week while classes are in session.

Please note: Federal College Work-Study cannot be used to pend tuition, fees, or other charges . FWSP funds are not available to directly pay for a student's tuition, fees, housing, or meal plan charges directly. Work Study students are paid according to the UNF bi-weekly payroll schedule based on the hours earned during the pay period

Student workers, except those participating in FWSP and international students, are allowed to work up to 40 hours per week and retain FICA exemption. International students must be enrolled fulltime and are limited to 20 work hours per week during fall, spring, and summer semesters. These student workers should check with The International Center for further information by calling (904) 620-2657.

Any student not meeting the above criteria, or not showing sufficient legal documentation to qualify for the FICA exemption, shall be required to have FICA deducted from all wages earned during the period of ineligibility. If a student's FICA status changes from non-exempt to exempt, none of the FICA previously withheld shall be refunded.

Students interested in employment opportunities are encouraged to refer to the job listing maintained by the Office of Human Resources, the Career Services Office, or to seek employment independently.


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## Transcripts

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Note: Please refer to other college sections for college-specific policies


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## Office of Academic Testing

The Office of Academic Testing assists University of North Florida students and the local community by providing entrance, institutional, statewide, and national testing opportunities while adhering to State of Florida regulations and National College Testing Association standards and guidelines.

The following examinations are administered by the Office of Academic Testing:

- Accuplacer College Placement Test (CPT)
- Assisted Living Facilities (ALF) Core Competency Examination
- Certified Health Education Specialist (CHES)
- College-Level Examination Program (CLEP)
- Florida Teacher Certification Examinations (FTCE)
- Graduate Record Exam (GRE)
- Law School Admission Test (LSAT)
- Master Certified Health Education Specialist (MCHES)
- National League for Nursing (NLN) examinations
- Postsecondary Education Readiness Test (PERT)
- Praxis Series
- SAT
- Test of Essential Academic Skills (TEAS)
- Test of English as a Foreign Language (TOEFL)

Individualized testing (proctored testing) is available for independent study and certification examinations. Information about other tests, including the Florida Educational Leadership Examination (FELE), is also available.

For further information please visit the Office of Academic Testing website or stop by our office in Founders Hall (Bldg 2), Room 2200.


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## Division of Continuing Education at UNF

The Division of Continuing Education at the University of North Florida offers non-credit course and certification programs. For-credit courses, and certain professional certification and re-certification courses are offered through the University's Brooks College of Health, Coggin College of Business, College of Arts and Sciences, College of Computing, Engineering and Construction, and College of Education and Human Services.

Visit the Division of Continuing Education at UNF website for details on their offerings including test preparation courses.


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## Division of Student Affairs

Mauricio Gonzalez, Ph.D., Vice President for Student and International Affairs

The Mission of the Division of Student Affairs is create a supportive, educational, social, and recreational environment outside the classroom through co-curricular programs and services which are engaging and lead to student retention.

The Division of Student Affairs encompasses 25 Departments and Units providing a generous array of programs, services, and credit and non-credit learning opportunities that complement students' classroom experiences and prepares students for life after college as engaged citizens. The Division delivers transformational learning opportunities such as: study abroad, student leadership development programs, projects that develop civic responsibility, career identification and preparation, and hands-on involvement in campus governance.

Undergraduate and graduate students wishing to explore or enhance their grasp of various academic majors also will find meaningful non-credit experiences in a number the Division's departments, such as: serving on staff of the campus newspaper (Spinnaker) for Communications majors seeking writing experience or Art and Design majors looking to develop photographic skills; an Accounting major serving on Student Government's Budget and Allocations Committee; or a variety of majors for whom experience in the Student Union could be insightful. Explore the Student Affairs' web site for more ideas.

Opportunities specifically for graduate students are also offered by a Student Affairs Departments. For instance, the LGBT Resource Center works with graduate students seeking practicum/internship and volunteer opportunities. The Counseling Center serves as an approved internship site for students completing their graduate training in mental health counseling. The Child Development Center and Health Promotions both offer undergraduate and graduate students opportunities for internships and volunteer work. Career Services assists graduate students with job search skills and strategies, and the Intercultural Center for Peace offers a special summer orientation program for new minority graduate students.

Information about all of the opportunities offered through Student Affairs departments may be obtained by visiting their web sites. To learn more about Student Affairs offerings that directly intersect with students in their academic progress, please review the following information.

## Bette Soldwedel Research Initiative (BSRI)

The BSRI, a Women's Center program, provides encouragement and support to women members of UNF engaged in research in all disciplines as well as support to women and men engaged in gender research. Students, faculty, and staff are welcomed and encouraged to become involved in research through the BSRI and apply for grant money to support their research.

## Student <br> Affairs <br> Departments and Programs

Campus Life

Campus Recreation

Career Services

Center for Student Media

Child Development
Research Center

Counseling Center

Dean of Students

Disability Resource Center

English Language Program

Fraternity and
Sorority Life

Health Promotions

Housing and
Residence Life

Interfaith Center

Intercultural Center for Peace

The need for career assistance begins early in students' college experiences and continues throughout their academic and professional lives. Career Services provides a variety of career services, programs, and resources specifically designed to help our students make a successful transition from academics to the world of work. The department assists students in clarifying career goals, choosing meaningful academic majors, providing cooperative education and internship experiences, exploring graduate study programs, and developing effective job search strategies.

## Internships/Cooperative Education Program (free elective)

The Internship/Cooperative Education is a unique educational program in which students integrate classroom study with supervised work experience related to their major field of study. Experiential Learning is a free elective course available in each of the four UNF colleges.

- Internships/Cooperative Education
- College of Arts and Sciences
- College of Computing Engineering and Construction Cooperative Education Program
- College of Education and Human Services Cooperative Education Program
- Brooks College of Health Cooperative Education Program

Students desiring a more intensive career exploration experience are encouraged to enroll in Career Services "Career Planning Course": EDG 2000: A 3-credit-hour course taught by Career Services career counseling staff that guides the student through the career development process.

## Child Development Research Center (CDRC)

In addition to on-campus child care, The Child Development Research Center serves the University community as a pre-internship site for its University students (Education majors and others) as well as for students from other colleges and universities within the region. The Center serves as a research site, allowing faculty members from various departments to conduct research which is generally interdisciplinary in nature.

## Disability Resource Center (DRC)

The Disability Resource Center (DRC) acts as a liaison between students with disabilities and the academic community. A fundamental goal of the DRC is to provide registered students with reasonable accommodations, auxiliary learning aids and information on accessibility. These services give students with disabilities equal access to academic programs. In addition, the DRC strives to increase awareness of the Rights, Responsibilities, and Resources available at the University of North Florida for students with disabilities. In compliance with Section 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990, the DRC provides resources to academic support services necessary for the student's academic pursuits. The DRC office also provides necessary accommodations during special campus events and meetings, as well as training regarding disability awareness for faculty and staff.

## English Language Program (ELP)

The goal of the English Language Program (ELP) is to provide international students and professionals an opportunity to learn English or to improve their proficiency in the English Language. The ELP offers quality instruction with knowledgeable and experienced teachers. The ELP staff and teachers provide a compassionate and caring learning environment to students in order to help them adjust to a new language and culture. The ELP welcomes and invites you to UNF to study English and American culture in sunny, beautiful Northeast Florida.

## Florida/West Africa Institute (FLAWI)

The Florida-West Africa Linkage Institute (FLAWI), a program managed by the International Center, was established under Florida Statute 288.8175 to promote academic, cultural, and economic exchanges between the state of Florida and the region of West Africa. This Linkage Institute provides qualified students non-resident tuition waivers, within the limits of the waivers available, to pursue a higher education at state universities and colleges in Florida. Institute tuition exemptions are available to students from the following countries: Benin, Burkina Faso, Cape Verde Islands, Cote D'Ivoire, Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Mali, Mauritania, Niger, Nigeria,

## Intercultural Center for the Promotion, Education and Advancement of Cultures and Ethnicities (ICP)

ICP promotes civility and respect for the dignity and worth of each individual at UNF, encourages peace through cultural diversity, and educates and advances the understanding of cultures and ethnicities. ICP works closely with the African American Student Union, The Asian Students in Alliance and the Latin American Student Organization which are open to all students on campus. IPC offers a variety of scholarships and college preparation programs including the Dr. Martin Luther King, Jr. Scholarship and QUEST (Quality for the Ultimate Educational Success Today). The QUEST program is for first-time in college minority freshmen students. QUEST provides students with skills essential to college success, personalized career exploration counseling, and information about University services and student organizations.

The Special Summer Graduate Program for minority graduate students at the University of North Florida is an excellent program sponsored by the Intercultural Center. The objectives of the program are to provide early adjustment to UNF graduate programs, review skills essential for success in graduate school, acquire knowledge regarding nonacademic services and relevant organizations and to develop a viable student network.

## Intergroup Dialogue

Intergroup Dialogue is a program at UNF that brings together individuals from two or more social identity groups in a facilitated co-learning environment. The program is designed to help students, faculty and staff build the skills and knowledge needed to take part in and to lead multicultural group interactions. Students can participate in Intergroup Dialogue by enrolling in a course open to all undergraduates for elective credit. This course satisfies selected requirements for the Leadership Certificate and Leadership Minor. The Intergroup Dialogue course is designed to help students build the skills and knowledge needed to take part in and to lead multicultural group interactions. The topics of this course include social identity development; prejudice and stereotyping and their effects on groups; difference and dominance and the nature of social oppression; and basic group facilitation skills and their applications in multicultural settings.

## International Center

The International Center serves two broad groups of students. For domestic (U.S.) students, the Center provides information about Study Abroad opportunities around the world and assists students who want to study overseas. For international students (on F and J visas), the Center serves as a source of immigration information to assist students in maintaining legal status while studying at UNF and provides programs, activities, and services that address the specific needs of international students.

## Military and Veterans Resource Center

The Military and Veterans Resource Center (MVRC) provides military and veteran students assistance in navigating admission, enrollment and financial aid processes. Led by the Director, the MVRC is the primary campus advocate for military and veteran students and works with them to ensure their unique needs are met by coordinating with offices of various university services such as academic advising, tutoring, counseling, disability resources, veteran programming, benefits information and assistance (financial and medical), as well as facilitating referral to state and federal resources and services. Please see the Center's link for special programming and other veteranspecific incentives such as priority registration for classes, meal discounts at some athletic venues, red, white and blue Americana graduation cords, veteran-specific internships, scholarships and employment assistance.

## Reserve Officers Training Corps at UNF

The United States Army Reserve Officers' Training Corps at the University of North Florida (UNF ARMY ROTC) is an educational program of leadership and military skills training that prepares UNF students for officer responsibilities in the United States Army, Army Reserve, or Army National Guard. Upon completion of the physically and mentally demanding UNF ARMY ROTC program, students are appointed to the rank of Second Lieutenant following graduation from UNF.

## Army ROTC

UNF Army ROTC courses fit into most UNF academic programs as electives. Students normally take one course and one leadership lab per semester along with their other classes. Freshmen and sophomores begin with no-obligation Basic Courses. They receive instruction in basic leadership and military skills such as physical fitness, land navigation, first aid, and rappelling. Junior and senior Cadets make up the Advanced Courses. At this stage, they have made the decision to commit to the US Army and receive instruction on leadership principles and advanced military skills, culminating in a Commission as an Army Officer.

UNF Army ROTC offers several opportunities for scholarships with full tuition/fees (or room and board up to $\$ 10,000$ per year). Students may apply for a 3-year or 2-year Army ROTC Campus Based Scholarship. Each pays full tuition, $\$ 1,200 /$ year for books, plus a monthly stipend (during the school year) for living expenses. Students also have the option of becoming simultaneous members of the Florida Army National Guard or US Army Reserve (SMP). In the SMP program, students attend one "drill weekend" or "battle assembly" each month and gain military leadership experience as well as pay at the rank of E-5 or Sergeant. Both organizations offer several scholarships, nonscholarship financial incentives such as tuition assistance; as well as opportunities to attend Army schools such as Airborne School and Air Assault School.

For a closer look at UNF ARMY ROTC, students should visit the UNF ARMY ROTC Facebook page or visit the UNF ROTC website.

## Navy ROTC

Naval Reserve Officers Training Corps: Division of Naval Science" programs are available to UNF students. This program includes fourteen courses that apply to the 120-credit graduation requirement. The Vice President for Student and International Affairs is the management liaison for this program.

## Student Code of Conduct

As students enter the UNF Community they subscribe to uphold the University Values and academic integrity. The Student Code of Conduct is designed to promote responsible behavior for all students consistent with the welfare of the UNF community and values. In order to function effectively and to provide a climate in which all members can fulfill their personal, social, and academic obligations, the University has established this Code for defining behavioral rights and responsibilities within this community. The responsibility for this Code shall be administered through the Division of Student Affairs.

## Student Ombudsman

The Office of the Student Ombudsman is here to help make a student's academic career at UNF successful. It does this by providing UNF students with a safe, confidential place to bring questions and concerns about University rules, policies, or procedures, and by assisting students to develop effective working relationships with faculty and staff at the University. The Ombudsman helps students understand and respond to the issues they may encounter at the University by considering all sides of an issue in an impartial and objective way, and helping them develop and implement strategies for problem solving and resolution.

## Taylor Leadership Institute

The vision for the Taylor Leadership Institute is to address the very real need of empowering future leaders to take their place in the world with the knowledge, skill set, and leadership vernacular and repertoire to 'hit the ground running' as leaders. A portrait of a graduating leader is one who understands building team processes, comfortably and proactively leading meetings with vision, speaks publicly with confidence, proactively facilitates group dynamics, thinks globally and acts ethically appreciating the paramount role of making a difference in the world.

The Leadership Certificate has merged with the Community Leadership Minor, reflected on the academic transcript. The collaborative programmatic design of the Community Leadership Minor is a partnership with the College of Education and Human Services utilizing leadership electives from all five colleges. Approved by the Academic Program Committee in the Faculty Association, the Leadership Academic Minor appears in the Academic Calendar.

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## UNF Alumni Association

Once you graduate from the University of North Florida you automatically become a member of the UNF Alumni Association. Your status as an alumnus entitles you to participate in all UNF Alumni Association programs, events and activities.

The University of Florida Alumni Association offers many benefits to a growing body of alumni from all walks of life. Alumni Family Fun Day - ECO Day and Play a Round for Scholarships Golf Tournament are just a few great events hosted by the Alumni Association.

Visit the UNF Alumni Association to get connected now.


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## UNF Athletics

The Osprey Club is the official fundraising-arm for the University of North Florida Athletics Department. With all UNF student-athletics in mind, the Osprey Club provide support for studentathlete scholarships, athletic facilities, and sport-specific operating funds.

Check out UNF's Official Athletics Site by visiting the North Florida Ospreys and Osprey Club.


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## UNF Foundation and Scholarships

The UNF Foundation is a nonprofit, tax-exempt entity that provides financial support and counsel to the University and enables it to achieve critical elements of its mission.

The Foundation's dynamic and distinguished board provides leadership in obtaining and managing private funding for the First Coast's only public university. Gifts to the Foundation enable UNF to fund new programs and enhance existing ones far beyond what are possible using state allocations alone.

## Foundation Scholarlships

The University of North Florida Foundation has established endowments to fund scholarships for merit and need based students of UNF. The endowments come from the generosity of many individuals, alumni, local philanthropists, non profit organizations and corporations. Many dreams and goals are fulfilled along with enriching and life changing experiences made through their support.

Visit Foundation Scholarships which includes information on scholarships offered through the UNF Foundation as well as helpful scholarship tips.

## Institutional Scholarships

For information on institutional and state scholarships, visit One Stop Student Services -
Scholarships - FAQs.


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## Quick Guide to Resources

## Academic Advising

For information about each of the advising units listed below, click here.

- Academic Center for Excellence (Freshman/Sophomore Advising)
- Brooks College of Health Advising
- Coggin College of Business Advising
- College of Arts and Sciences Advising
- College of Computing, Engineering and Construction
- Construction Management Advising Center
- School of Computing Advising Center
- School of Engineering Advising Center
- College of Education and Human Services Advising
- Honors Advising


## Academic Services

- Academic Testing
- Thomas G. Carpenter Library
- Tutoring
- Undergraduate Studies
- The Graduate School


## Campus Involvement

- Campus Recreation
- Office of Fraternity and Sorority Life
- Intercultural Center for PEACE
- Interfaith Center
- Osprey Productions
- Housing and Residence Life
- Student Government
- Student Media
- Student Union
- Taylor Leadership Institute
- Volunteer Center
- Bookstore
- Child Development Research Center
- Food Services
- Housing
- Information Technology Services (computer labs, help desk, etc.)
- Osprey Card Services
- Parking Services
- Postal Service
- Ticket Box Office
- UPS Store - Campus Location


## Employment Services

- Career Services
- College Work Study
- Student Employment/HR


## Financial Services

- Cashier's Office
- Financial Aid/One Stop Student Services
- Scholarships


## Fitness and Health

- Campus Recreation
- Counseling Center
- Health Promotions (Fitness and Nutrition)
- Student Health Services
- Student Wellness Complex


## Multicultural Services

- African American Student Union
- English Language Program
- Intercultural Center for PEACE
- Interfaith Center
- International Center
- Lesbian, Gay, Bisexual and Transgender Resource Center
- Women's Center


## Personal Support Services

- Career Services
- Counseling Center
- Disability Resource Center
- Health Promotions (Alcohol \& Drugs, Sexual Health, Mental Health and Stress)
- Parent and Family Programs
- Student Conduct
- Student Health Center
- Student Ombudsman
- Victim's Advocacy Program


## Student Enrollment \& Records

- Admissions
- The Graduate School
- One Stop Student Services
- Records and Registration


## Veteran \& Military Services

- Veteran's Affairs
- Veteran's Benefits
- Military and Veterans Resource Center
- ROTC/Army
- NROTC/Navy



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## Printable Catalogs (PDF)

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- 2007-2008
- 2006-2007
- 2005-2006
- 2004-2005

Undergraduate Catalogs (PDF's)

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- 2007-2008
- 2006-2007
- 2005-2006
- 2004-2005
- 2003-2004


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## Archived Catalogs

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- 2010-2011
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## Graduate Catalogs

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- 2007-2008
- 2006-2007
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- 2004-2005


## Undergraduate Catalogs

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- 2007-2008
- 2006-2007
- 2005-2006
- 2004-2005
- 2003-2004


## Digital Commons Catalogs

- 1972-2003



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## International Students Admission

## Application Requirements

Undergraduate students are accepted each semester, except for limited access and selective access programs. Deadlines for applications and supporting documents may be found online. In order to be considered for admission, applicants must submit all required documents by the posted deadline.

Getting credentials and transcripts evaluated takes a considerable amount of time. In addition, sending or receiving official application materials can often take a very long time. Therefore, applicants should complete their applications as far ahead of the deadline as possible.

1. Application Forms: International students must complete and submit an application for admission. UNF's application is available on the website.
2. Application Fee: The application fee is $\$ 30$. The application fee must be in U.S. currency only (check or money order) drawn from a U.S. bank.
3. Academic Records and Credentials Evaluation: Applicants must submit official academic credentials in the form of original documents bearing the seal of the institution and the signature of their institution's Registrar, or exact copies that have been legally certified. The UNF International Center may provide the applicant with the following academic records and credentials evaluations services only if the original documents have literal and complete translations in English:

- Document-by-document evaluation (degree, diploma, GPA); and
- College level course-by-course evaluations (with GPA and credits).

Please note that due to the complexity of certain foreign credentials evaluation requests, the UNF International Center reserves the right to ask applicants to contact an external evaluation agency directly and provide UNF with an original evaluation of all academic credentials. Transcripts or credentials not in English or records for which U.S. course equivalencies are not readily available must undergo a course-by-course evaluation by a reputable foreign transcript and credentials evaluator. A list of acceptable credentials evaluators can be found at the Web pages of NACES (National Association of Credential Evaluation Service).
4. SAT and ACT Test Scores: All lower-level applicants must submit official test scores from the SAT Reasoning Test or the ACT (American College Test).
5. English Proficiency: All applicants, except those from countries where English is the only official language, are required to furnish satisfactory evidence of English competency. Most applicants to the University take the Test of English as a Foreign Language (TOEFL); for those applicants, a minimum score of 500 for paper-based, 173 for computer-based, and 61 for Internet-based is required for admissions consideration. However, there are other proofs of English competency that may be used. For a listing of different methods to meet the

English Proficiency requirements, please see Indicators of Required English Language Proficiency for Foreign Applicants.

In addition to meeting the academic requirements for admission, students planning to attend UNF on an international student visa (F-1) or an exchange student visa (J-1) must also
satisfy immigration, health, and financial requirements as described in the All Students section of this catalog.

To view the University's official regulation, click here.


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## International Graduate Student Admission

The University of North Florida, the Graduate School, and the International Center are pleased to welcome you. We recognize that you and your fellow international students, representing over 100 different countries, bring with you perspectives that enrich our campus. We are committed to offering you educational programs and experiences that will enhance your professional development.

We are very aware of the challenges before you and hope to be able to provide you the best possible support as you pursue your graduate studies at UNF. This support includes our Student Orientation, which is offered at the beginning of every semester. Required of all new students, this program reviews your rights and responsibilities and also provides an opportunity for you to meet with your fellow international students.

The Graduate School and the International Center will be happy to help you with the admissions process.

## Admission Requirements

- Application Forms International students must complete an online application. Further information is available at www.unf.edu/graduateschool/.
- Application Deadlines Applicants should submit their completed application forms and all other required material well in advance of the date they wish to begin at UNF. Some programs have alternative deadlines for the submission of the application materials by international students, and these deadlines may be found at www.unf.edu/graduateschool/.

The general deadline for international students are as follows:

- Fall - May 1
- Spring - October 1
- Summer - February

Applicants should understand that getting credentials and transcripts evaluated can take a considerable amount of time. In addition, sending or receiving official application material can often take a very long time. Therefore, applicants should complete their applications as far ahead of the deadline as possible.

- Application Fee The application fee is $\$ 30.00$. The application fee must be in U.S. currency only (check or money order) drawn from a U.S. bank.
- Academic Records and Credentials Evaluation Applicants must submit official academic credentials in the form of original documents bearing the seal of the institution and
the signature of their institution's Registrar, or exact copies that have been legally certified. The UNF International Center may provide the applicant with the following academic records and credential evaluations services only if the original documents have literal and complete translations in English:
- Document-by-document evaluation (degree, diploma, GPA)
- College level course-by-course evaluations (with GPA, course levels, and credits)

Please note that due to the complexity of certain foreign credential evaluation requests, the UNF International Center reserves the right to ask applicants to contact an external evaluation agency directly and provide UNF with an original evaluation of all academic credentials. Transcripts or credentials not in English or records for which U.S. course equivalency is not readily available must undergo a course-by-course evaluation by a reputable foreign transcript and credentials evaluator. A list of acceptable credentials evaluators can be found at the web pages of NACES (National Association of Credential Evaluation Service) at www.naces.org/members.htm.

- GRE and GMAT Test Scores Applicants must take the required graduate tests - the GRE or the GMAT as required by their intended program - and arrange for the Educational Testing Service to forward the scores to the Graduate School at UNF. UNF's institutional code is 5490 for the GRE and CF3QB-51 for the GMAT.
- English Proficiency Applicants from countries where the official language is other than English must demonstrate proficiency in English. One such method is to take the Test of English as a Foreign Language (TOEFL), receive a score of 500 or higher ( 550 or higher for graduate business and engineering programs) for paper-based, 173 for computer-based, and 61 for Internet-based, and submit their score with their application. The TOEFL is offered by the Educational Testing Service, Princeton, N.J. 08541, U.S.A. UNF's institutional code is 5490 . Alternative methods of proving English proficiency may be found at www.unf.edu/graduateschool/.


## Immigration Requirements

- Certification of Finances The U.S. Department of Homeland Security requires UNF to insure that international students have sufficient financial resources before issuing a Certificate of Eligibility (Form I-20). All applicants must complete and submit an Affidavit of Financial Support and Bank Certification. The Affidavit is a document signed by the applicant's sponsor (the person who will be providing the funds) stating the amount of funds that she/he will provide for the educational expenses of the student applicant. A bank official then certifies that the sponsor does have that amount of funds in his/her account. This form represents an obligation on the part of the sponsor to provide the required amount of funds as indicated on the form. Please see Estimated Costs of Attendance for International Students on the UNF website to determine the amount of funds needed to be written on the Affidavit.
- Transfer Students All applicants intending to transfer from another U.S. university must notify their current school so that the U.S. Department of Homeland Security transfer requirements can be initiated. A new form I-20 from UNF cannot be issued until the current school "transfers out" the applicant to UNF in the SEVIS program.


## Health Requirements

Before you can enroll in classes at UNF, you must supply the following health certifications. These certifications are not necessary for you to apply for admission to UNF. However, once you have been admitted, they are necessary for you to be able to register for classes.

- Statement of Good Health This form can be found on the Immunization Form (Student Health Services). See Certification of Immunization listed below.
- Certification of Health Insurance If you have an immigration status of F1 or J1, before you may register for classes you must show proof that you have health insurance. If you currently have insurance coverage, please have your insurance company fill out the "International Student Health Insurance Evaluation" form available from the UNF Office of

Student Health Services at (904) 620-2175 or from their web page. If you do not have such insurance, you can purchase insurance through the UNF Office of Student Health Services. Beginning with the fall term of 2008: Insurance coverage must include the full year, including annual breaks, regardless of the student's terms of enrollment. The policy must provide continuous coverage for the entire period the insured is enrolled as an eligible student. Payment of benefits must be renewable.

- Certification of Immunization All students born after 1956 must meet immunization requirements of two doses of Measles and one dose of Rubella. Please refer to the "Immunization Documentation" form. This form is available from the UNF Office of Student Health Services Web page.

Effective July 1, 2008, all new matriculating students must provide documentation of vaccinations against meningococcal meningitis and hepatitis B or provide a signed waiver for each declined vaccination. All new matriculating students 18 or older who choose not to be vaccinated against either meningococcal meningitis or hepatitis B must sign a statement that they have been made aware of the potential fatal nature of the diseases and chose not to be vaccinated. All new matriculating minor-age students must provide signed parental consent to opt out of vaccination from either of these diseases. See Student Health Services section of this catalog for more information about these diseases. If you have questions, contact Student Health Services at (904) 620-2175, fax (904) 620-2901 or visit the Student Health Services website.

## Estimated Student Expenses

The following are estimated expenses for international students enrolled in graduate programs during the 2011-2012 academic year (fall 2011 and spring 2012). The costs for summer are additional. The estimated costs provided below are subject to change by the State of Florida Legislature.
Tuition and fees (9 credit hours each term)

| Books and supplies | $\$ 900.00$ |
| :--- | ---: |
| Room and board | $\$ 8,976.00$ |
| Miscellaneous expenses | $\$ 5,897.00$ |
| Estimated Total | $\$ 34,437.00$ |



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## Medical Compliance Requirements

## Immunization Policy

Pursuant to Florida Board of Governors Regulation 6.001(9), prior to registration, each student accepted for admission at The University of North Florida must submit a signed UNF Immunization Form. University of North Florida requires documented proof of immunizations to measles and rubella. In addition, pursuant to Florida Board of Governors Regulations 6.007, effective July 1, 2008, all new matriculating students must also provide documentation of vaccinations against meningococcal meningitis and hepatitis B or provide a signed waiver for each declined vaccination.

Acceptable documentation is as follows:

## Measles (Rubeola)

Students can be considered compliant for Measles only if they have documentation of one of the following:

1. Official documentation of immunization with TWO (2) doses of live Measles virus vaccine on or after the first birthday and at least 28 days apart. Persons vaccinated with killed or unknown vaccine prior to 1968 must be revaccinated.
2. Laboratory (serologic) evidence of Measles immunity titer.
3. A written, dated statement, signed by a physician on his/her stationery, that specifies the date seen, and stating that the person has had an illness characterized by a generalized rash lasting three (3) or more days, a fever of 101 degrees Fahrenheit or greater, a cough and conjunctivitis, and in the physician's opinion, is diagnosed to have the ten-day measles (Rubeola).

Measles is a highly contagious acute viral infection characterized by a rash, cough, runny nose, eye irritation, and fever. It is extremely communicable and is spread by droplets from the nose and mouth of an infected person to susceptible individuals. Measles can lead to ear infection, pneumonia, seizures, brain damage, or even death. In recent years in the U.S., outbreaks have occurred most commonly in adolescents and young adults, including college students. Receiving two doses of the live measles vaccine can provide long-lasting immunity.

## Rubella (German Measles)

Students can be considered compliant for Rubella only if they have documentation of at least one of the following:

1. Documentation of immunization with live Rubella virus vaccine on or after the first birthday.
2. Laboratory (serologic) evidence of Rubella immunity titer.

Rubella is a contagious viral infection that causes a rash, mild fever, and stiff joints in adults. A woman who gets rubella while pregnant could have a miscarriage or her baby could be born with serious birth defects. Its incidence is low in the U.S. due to the increased number of childhood vaccinations against the disease; however, outbreaks continue to occur in susceptible populations, including college students. The vaccination for rubella produces antibodies in over 95\% of recipients.

Mumps is an acute viral infection characterized by muscle ache, tiredness, loss of appetite, headache, and fever, followed by swelling of salivary glands. The parotid salivary glands (which are located within your cheek, near your jaw line, below your ears) are most frequently affected. Transmission of mumps virus occurs by direct contact with respiratory droplets, saliva, or contact with contaminated fomites. Complications of mumps infection can include deafness, inflammation of the testicles, ovaries, or breasts, and spontaneous abortion. In recent years in the U.S., the majority of cases reported occurred among adolescents and young adults, including college students.

## Exemptions

1. Students seeking an exemption due to medical conditions must submit documentation from the attending physician.
2. Students seeking an exemption for religious reasons must submit a letter explaining the circumstances.
3. In the event of a Measles/Rubella emergency, exempted students will be excluded from all campus activities until such time as is specified by the County Health Unit.

Please contact the UNF Office of Medical Compliance for additional information.
Meningococcal Meningitis is an infection of the fluid of the spinal cord and brain, caused by bacteria and usually spread through exchange of respiratory and throat secretions (i.e. coughing, kissing). Bacterial meningitis can be quite severe and may result in brain damage, hearing loss, learning disability, or even death. A vaccine is currently available for one of the most severe forms of bacterial meningitis, meningococcus. This vaccine effectively provides immunity for most forms of meningococcus; there is no vaccine for the less severe viral type of meningitis.

Hepatitis B is a viral infection of the liver caused primarily by contact with blood and other body fluids from infected persons. Hepatitis B vaccine can provide immunity against Hepatitis B infection for persons at significant risk, including people who have received blood products containing the virus through transfusions, drug use, tattoos, or body piercing; people who have sex with multiple partners or with someone who is infected with the virus; and health care workers and people exposed to biomedical waste.

## Certification of Health Insurance

To comply with the Florida State Board of Governors Regulation BOG 6.009, F-1, F-2, J-1, J-2 visa status students must have a health insurance policy that meets certain criteria. The University of North Florida (UNF) has a policy available that includes benefits that meet the Florida State Board of Governors Regulation. International students also have the option to purchase an alternate policy, as long as the policy meets the Florida State Board of Governors Regulation BOG 6.009 guidelines.

## UNF Health Insurance Plan

Information on this plan can be found on the Medical Compliance Website
http://www.unf.edu/shs/Immunization.aspx.
The fee for this plan is automatically assessed on every F/J visa status student's account when tuition fees are assessed (Unless a waiver for alternate insurance has been submitted and approved) and has the same payment deadline.

## Alternate Insurance Waiver Plan

In order to apply for alternate insurance, students must submit an International Student Health Insurance Compliance Form. This form can be obtained online at
http://www.unf.edu/shs/Immunization.aspx.
This form may be submitted as early as you wish. The best way to avoid the UNF insurance fee from being assessed to your account is to submit these forms before tuition fees are assessed to your account (approximately three weeks before the first day of each semester.)

All alternate insurance waiver forms must be received by the last day of add/drop to be considered for approval. Once approved, the fee for insurance will be removed from the student's account. **Please note that this may take up to a week to update in the system. Credits from the Cashier's Office could take up to an additional week to post. This is why we encourage students to get their waivers in early**

Medical Compliance will not accept alternate insurance waiver forms after the add/drop cut-off date.


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## First-Time-in-College Admission Requirements

## Beginning Freshman

The University is interested in applicants who have demonstrated strong academic ability and who will bring diverse interests and talents to the campus. All prospective freshmen are required to submit an official copy of their high school transcript and official SAT/ACT score reports. Scholastic Assessment Test (SAT) and American College Test (ACT) scores reflected on the high school record are considered official. Because UNF's freshman class is limited in size, admission is selective.

## Application Requirements

The following materials must be submitted to the Office of Admissions by the deadline in order to be considered for admission to UNF.

- Admission application
- \$30 Application fee
- High school transcripts
- Transcripts from any credit-earning mechanism
- SAT and/or ACT score reports

All transcripts, test scores and documentation of credit-earning mechanisms must be official, arriving to the Office of Admissions directly from the originating school or testing agency. Official documents are those received directly from the awarding institution or delivered in their original, sealed envelope.

## Admission application

Incoming freshmen may apply for entrance into the spring (January), summer (June), or fall (August) semesters. Students may apply for admission up to one year in advance of their intended enrollment term. Students are encouraged to submit an online application; however the paper version may be printed and submitted via mail or in person. Incomplete or illegible applications will not be processed. Applicants are directly responsible for providing accurate contact information.

## Application fee

A $\$ 30$ non-refundable application fee is required for any application for admission. Acceptable payment methods include MasterCard, Discover, Visa or American Express online; or personal check/money order made payable to UNF. Students should inquire with their high school guidance office to see if they are eligible for a college application fee waiver.

## High school transcripts

It is the student's responsibility to ensure that official high school transcripts have been received by the Office of Admissions by the deadline. Florida public schools should send transcripts electronically, while private and non-Florida schools may mail transcripts to the Office of Admissions.

The Office of Admissions will recalculate a grade point average (GPA) based on the following eighteen academic units in college preparatory courses, giving extra weight to grades of " C " or higher earned in honors, Dual Enrollment, Advanced Placement, IB, or AICE courses. While students may not have completed all the required courses at the time an application is submitted, they are required to complete them prior to high school graduation and entrance into UNF.

- Four units of English
- Four units of math (Algebra 1 or higher)
- Three units of natural science
- Three units of social science
- Two successive units of (the same) foreign language
- Two units of academic electives

Students are required to submit final, official transcripts reflecting graduation from high school no later than 30 days after the start of the term to which they have been admitted.

## Transcripts from credit-earning mechanisms

If coursework has been completed through any credit-earning mechanism at the time of application then students are required to submit official transcripts/score reports to complete their applications before the appropriate deadline date. Incomplete applications will not be processed. Credit-earning mechanisms include, but are not limited to IB, AP, AICE, Dual Enrollment, CLEP, DANTES, or military SMART/AARTS transcripts.

## SAT and/or ACT score reports

It is the student's responsibility to ensure that official SAT and/or ACT scores have been received by the Office of Admissions by the deadline. Multiple scores are accepted and the best subsection scores will be considered. Writing portions of both tests are required. UNF's SAT code is 5490 and ACT code is 0711.

## Home School and G.E.D. Students

Home school students must submit transcripts indicating course title, semester, grade, and awarded credit for all academic courses. Official SAT/ACT scores and official transcripts from accelerated mechanisms are also required.

Students who received a G.E.D. must submit evidence of passing scores on the subtests of the G.E.D. exams and a G.E.D. diploma, in addition to official SAT or ACT score reports.

## State Academic Standards

The State of Florida has implemented new minimum admission standards for freshman applicants to all Florida public state universities. In order to be considered, students must have a minimum 2.5 recalculated GPA on a 4.0 scale and meet minimum test score requirements (460 SAT Critical Reading, 460 SAT Math, 440 SAT Writing; or 19 ACT Reading, 19 ACT Math, 18 ACT English/Writing). Please keep in mind that these standards only outline potential eligibility for admission to a state university. UNF's admission criteria depends on the size and competitiveness of the applicant pool and will be higher than these minimums.

An overall recalculated grade point average in academic course work as computed by UNF (additional points are assigned to honors, dual enrollment, Advanced Placement, International Baccalaureate, and Cambridge AICE courses) and scores on the SAT or the ACT program are combined to meet the minimum established by the Florida Board of Governors and the University. Some applicants who do not meet these established academic criteria, but who bring to the University other important attributes, may be considered for admission. The summer Academic Potential Program (APP) is designed to provide an opportunity for a limited number of applicants who do not meet the established criteria but who bring other important attributes or special talents.


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## Transfer Student Admission Requirements

## Transferring as a Freshman or Sophomore (Lower-Level Transfer)

Students who apply with fewer than 60 transferable semester hours ( 90 transferable quarter hours) of college course work will be considered for admission to the freshman or sophomore class. Admission requirements will vary by major, term, and space-availability. In order to be considered, the following criteria must be met:

- Satisfy the same admissions requirements as incoming freshmen applicants, including meeting the State University System sliding scale with high school GPA and SAT/ACT scores.
- Display evidence of a competitive profile and demonstrated academic success in collegelevel course work.
- Meet or exceed a minimum cumulative college GPA of 2.0 (" $C$ ") or higher, including a " $C$ " or higher average and "good standing" status (eligible to return) at the most recent college attended.

Meeting the above-referenced state minimum GPA requirement does not guarantee admission to the University. Applicants who exceed the minimum are most competitive for admission as a transfer student if space is available. In determining an applicant's admissibility, the University may consider personal qualities and talents in addition to academic accomplishments.

Listed below are the minimum required materials for lower-level students to submit in order to be evaluated for an admission decision. Additional documentation may be requested.

- Admission application
- \$30 application fee
- Official high school transcripts
- Official SAT/ACT test scores
- Official transcripts from all post-secondary institutions attended, including dual enrollment credits from high school
- Official transcripts from any other credit-earning mechanisms, including AP, AICE, CLEP, DANTES, IB, and any military SMART/AARTS/JST transcripts

All transcripts and test scores must be official, arriving to One Stop Student Services directly from the awarding institution or in the original, sealed envelope. Unofficial documents and those received after the posted deadline will not be accepted.

## Additional

Resources
Transfer Student Bill of Rights

Foreign Language
Requirement

## Transferring as a Junior or Senior (Upper-Level Transfer)

Students who have completed an Associate in Arts (A.A.) degree at a Florida public post-secondary institution (university, community, state, or junior college); students who fall under the provisions of specific articulated programs; or students who have completed a minimum of 60 transferable semester hours ( 90 transferable quarter hours) of college credit may be considered for admission as a junior or senior. Admission requirements will vary by major, term, and spaceavailability.

In order to be considered, applicants must meet or exceed a cumulative college GPA of 2.0 or higher, including a " C " or higher average and "good standing" status at the most recent college attended. Meeting the minimum GPA requirement does not guarantee admission to the University. Applicants who exceed the minimum are most competitive for admission as a transfer student if space is available. In determining an applicant's admissibility, the University may consider personal qualities and talents in addition to academic accomplishments.

Listed below are the minimum required materials for upper-level students to submit in order to be evaluated for a decision. Additional documentation may be requested, and additional requirements may exist for students applying to limited access/selective admissions programs or international students.

- Admission application
- \$30 application fee
- Official transcripts from all post-secondary institutions attended, including dual enrollment credits from high school
- Official transcripts from any other credit-earning mechanisms, including AP, AICE, CLEP, DANTES, IB, and any military SMART/AARTS/JST transcripts.

All transcripts and test scores must be official, arriving to One Stop Student Services directly from the awarding institution or in the original, sealed envelope. Unofficial documents and those received after posted deadlines will not be accepted.

Applicants transferring directly after earning an A.A. degree from a Florida public institution and applicants transferring under the provisions of an existing articulation agreement will receive priority consideration for admission.

Applicants transferring to the University without earning an A.A. degree from a Florida public institution must display evidence of a competitive profile and demonstrated academic success in college-level coursework. In order to be considered, applicants must meet or exceed a minimum cumulative college GPA of 2.0 ("C") or higher, including a "C" or higher average and "good standing" status (eligible to return) at the most recent college attended.

Meeting the minimum GPA requirement does not guarantee admission to the University. Applicants who exceed the minimum are most competitive for admission as a transfer student if space is available. In determining an applicant's admissibility, the University may consider personal qualities and talents in addition to academic accomplishments.

Additional restrictions apply for students applying to Limited Access and Selective Admission programs.


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## Non-Degree Seeking and Special Status Students

Individuals may seek admission to UNF in a non-degree seeking or special status for one semester by submitting an application for admission and a $\$ 30$ application fee to One Stop Student Services by the appropriate deadline for the desired semester. Upon admission, the student may register for one term in a non-degree seeking / special student category. Non-degree / special students wishing to continue at UNF beyond one term must consult One Stop Student Services regarding formal admission procedures and policies. Successful completion of coursework in this status does not guarantee admission to the University.

No more than 12 undergraduate semester hours earned as a non-degree / special student may be transferred to a UNF undergraduate degree program. The transfer of any course(s) to a degree program earned while in a non-degree seeking / special status must be recommended by the dean or designee of the college which administers the program.

First-time-in-college freshmen are prohibited from enrolling as non-degree seeking / special students. Students enrolled in a non-degree / special status will register for classes on a space-available basis and are not eligible for financial aid at UNF.

To view information on transient enrollment, click here.


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## Post-Baccalaureate Students

A post-baccalaureate student is someone who has earned a bachelor's degree at a regionallyaccredited institution of higher education and desires to complete additional college course work. While graduate students meet the conditions of this definition, UNF refers to post-baccalaureate students as those students not admitted to a graduate program. Specific information regarding graduate students and graduate programs may be found on The Graduate School website.

Listed below are the minimum required materials for post-baccalaureate students to submit in order to be evaluated for a decision. Additional documentations may be requested, and additional requirements may exist for students applying as degree-seeking to a limited access/selective admissions programs.

- Admission application (see details below for which application to submit)
- \$30 application fee
- Official transcripts from each post-secondary institution attended, including military and dual enrollment transcripts
- Official transcripts from any credit-earning mechanism (Credit-earning mechanisms include, but are not limited to IB, AP, AICE, CLEP, or DANTES.)
- Meet a minimum cumulative college GPA of 2.0 ("C") or higher.

Within curriculum, space, and fiscal limitations, the University of North Florida will accept applications for students pursuing post-baccalaureate admissions. In this capacity, postbaccalaureate students generally enroll in one of the following categories.

1. Post-baccalaureate non-degree seeking: In this status, post-baccalaureate students may register for undergraduate courses and select graduate courses with permission from the department offering the courses. These courses are generally intended for personal interest and not taken in the pursuit of formalized educational goal. Students in this status are not eligible for financial aid.
2. Post-baccalaureate degree-seeking: In this status, post-baccalaureate students may register for courses leading to another bachelor's degree. Students in this status may apply for financial aid.
3. Post-baccalaureate certificate-only: In this status, post-baccalaureate students may register for classes leading to a specific certificate or other non-degree credential. Students in this status are not eligible for financial aid, except for those students pursuing their initial professional teacher certification in Florida.
4. Post-baccalaureate for graduate prerequisites: This status is reserved for students working on undergraduate prerequisites necessary for admission into a graduate program. Students in this status are not eligible for financial aid. Additional information is available from The Graduate School.

Students interested in attending in a post-baccalaureate status may consult One Stop Student Services for additional information. Generally speaking and at the discretion of the graduate program, a maximum of ten graduate semester credit hours earned in a post-baccalaureate status may transfer into a graduate degree program. Additional information may be obtained from The Graduate School.


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## Credit Transfers and Acceleration Mechanisms

For undergraduates, transfer credits are considered applicable toward graduation unless specifically noted as "non-applicable" when the student's degree program is planned. Designation of a course as "non-applicable" is based on the length of time since its completion, relevancy to the present degree objective, accreditation status of the institution where earned, or other significant factors. For more information regarding transferability of credits, please visit the UNF Admissions webpage Transfer Credits.

The University will accept credit awarded through one or a combination of state-approved acceleration mechanisms, not to exceed 45 credit hours. Credit awarded through state-approved acceleration mechanisms must meet the minimum scores established by the Statewide Articulation Agreement.

The state-approved acceleration mechanisms are:

- College Level Examination Program (CLEP)
- College Board Advanced Placement (AP)
- The Defense Activity For Non-Traditional Education Support (DANTES) (formerly United States Armed Forces Institute or USAFI)
- Excelsior College Examinations
- Military service school credit as evaluated by the American Council on Education Guide to the evaluation of educational experiences in the armed services. (Maximum of 21 hours)
- International Baccalaureate (IB)
- Advanced International Certificate of Education (AICE)

Up to 45 total acceleration mechanism credits may be awarded, including up to 30 credits for the IB diploma.

The University will also accept credit awarded through dual enrollment as established by the Statewide Articulation Agreement. For more information on dual enrollment, click here.

To view the University's current official policy, click here.


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## International Baccalaureate

UNF recognizes the International Baccalaureate and may award up to a maximum of 30 credit hours. The charts below can be used as a guide to determine the type and amount of credit.

There may be additional IB courses not mentioned in this list. If you would like to receive credit for an IB course that is not listed, please see the Office of Admissions or your college academic advisor. The responsible academic department will need to review the course syllabus to determine the type of credit to be given.

Information is subject to change.

| IB Course | Equivalency | IB Score | UNF Credit Received |
| :---: | :---: | :---: | :---: |
| Biology | BSC 1005C | 4 | 4 hours Lab-Science |
| Biology | $\begin{aligned} & \text { BSC 1005C \& } \\ & \text { BSC 1010C } \end{aligned}$ | 5,6,7 | 4 hours Lab-Science <br> 4 hours Lab-Science |
| Business and Management | GEB 1011 | 4 | 3 hours Elective |
| Business and Management |  <br> MAN 2652 | 5, 6, 7 | 3 hours Elective 3 hours Elective |
| Chemistry | CHM 1020C | 4 | 4 hours Lab-Science |
| Chemistry | CHM1020C \& CHM 2045C | 5, 6, 7 | 4 hours Lab-Science 4 hours Lab-Science |
| Computer Science | CGS 1078 | 4 | 3 hours Elective |
| Computer Science | $\begin{aligned} & \text { CGS } 1078 \text { \& } \\ & \text { CGS } 1570 \end{aligned}$ | 5, 6, 7 | 3 hours Elective <br> 3 hours Elective |
| Design Technology | ETI 1410 | 4 | 3 hours Elective |
| Design Technology |  <br> ETI 1000 | 5, 6, 7 | 3 hours Elective <br> 3 hours Elective |
| Economics | ECO 1000 | 4 | 3 hours Elective |
| Economics | $\begin{aligned} & \text { ECO } 2013 \text { \& } \\ & \text { ECO } 2023 \end{aligned}$ | 5, 6, 7 | 3 hours Part A Social Science 3 hours Elective |
| Ecosystems \& Societies | EVR 1017 | 4 | 3 hours Elective |
| Ecosystems \& Societies | EVR1017 \& ISC 1000 | 5, 6, 7 | 3 hours Elective <br> 3 hours Elective |
| English A1 | ENC 1101 | 4 | 3 hours English GR Writing |
| English A1 | ENC 1101 \& | 5, 6, 7 | 3 hours English GR |


|  | ENC 1102 |  | Writing <br> 3 hours Literature GR Writing |
| :---: | :---: | :---: | :---: |
| Environmental Systems | ISC 1050 | 4 | 3 hours Non-Lab Science |
| Environmental Systems | ISC 1050 \& BSC 3057 | 5, 6, 7 | 3 hours Non-Lab Science <br> 3 hours Non-Lab Science |
| Film Studies | FIL 1001 | 4 | 3 hours Elective |
| Film Studies | FIL 1001\& FIL 1002 | 5, 6, 7 | 3 hours Elective <br> 3 hours Elective |
| French | FRE 1121 | 4 | 4 hours Foreign Language |
| French | FRE 1121 \& FRE 2240 | 5, 6, 7 | 4 hours Foreign Language 3 hours Foreign Language |
| Further Mathematics (Advanced Mathematics) | MHF 3202 | 4 | 3 hours GR Math |
| Further Mathematics (Advanced Mathematics) | $\begin{aligned} & \text { MHF } 3202 \text { \& } \\ & \text { MHF } 2209 \end{aligned}$ | 5, 6, 7 | 3 hours GR Math 3 hours GR Math |
| Geography | GEA 1000 | 4 | 3 hours Cultural Diversity <br> Social Science |
| Geography | $\begin{aligned} & \text { GEO } 2200 \text { \& } \\ & \text { GEO } 2400 \end{aligned}$ | 5, 6, 7 | 3 hours Elective <br> 3 hours Cultural Diversity Social Science |
| German | GER 1121 | 4 | 4 hours Foreign Language |
| German | $\begin{aligned} & \text { GER } 1121 \text { \& } \\ & \text { GER } 2200 \end{aligned}$ | 5, 6, 7 | 4 hours Foreign Language 3 hours Foreign Language |
| History | WOH 1030 | 4 | 3 hours GR Core |
| History |  <br> EUH 1000 or <br> AMH 2020 (based on test title) | 5, 6, 7 | 3 hours GR Core <br> 3 hours GR Core or 3 hours Social Science Part A |
| Information \& Technology for a Global Society | CGS 1078 | 4 | 3 hours Elective |
| Information \& Technology for a Global Society | $\begin{aligned} & \text { CGS } 1078 \text { \& } \\ & \text { CGS } 1100 \end{aligned}$ | 5, 6, 7 | 3 hours Elective <br> 3 hours Elective |
| Islamic History | ASH 3223 | 4 | 3 hours Cultural Diversity Social Science |
| Islamic History |  <br> ASH 1000 | 5, 6, 7 | 3 hours Cultural Diversity <br> Social Science <br> 3 hours Elective |
| Italian | Discretion of Department | 4 | 3 hours Foreign Language |
| Italian | Discretion of Department | 5, 6, 7 | 6 hours Foreign Language |
| Latin | LAT 1120 | 4 | 4 hours Foreign Language |
|  |  |  |  |


| Latin | LAT 1120 \& LAT 1230 | 5, 6, 7 | 4 hours Foreign Language 3 hours Foreign Language |
| :---: | :---: | :---: | :---: |
| Marine Science | BSC 1311C | 4 | 3 hours Lab--Science |
| Marine Science | $\begin{aligned} & \text { BSC 1311C \& OCB } \\ & 1010 C \end{aligned}$ | 5, 6, 7 | 3 hours Lab--Science 3 hours Lab--Science |
| Math Methods | MAC 1105 | 4 | 3 hours GR Math |
| Math Methods | MAC 1105 \& MAC 1140 | 5 | 3 hours GR Math 4 hours GR Math |
| Math Methods | MAC 1140 \& MAC 2233 | 6, 7 | 4 hours GR Math 3 hours GR Math |
| Mathematics | MAC 1147 | 4 | 4 hours GR Math |
| Mathematics | MAC 1147 \& MAC 2233 | 5 | 4 hours GR Math 3 hours GR Math |
| Mathematics |  <br> MAC 2311 | 6,7 | 3 hours GR Math 4 hours GR Math |
| Math Studies | MAT 1033 | 4 | 3 hours Elective |
| Math Studies | MAC 1033 \& MAC 1106 | 5, 6, 7 | 3 hours Elective 3 hours GR Math |
| Music | MUL 1010 | 4 | 3 hours Non-Applied Fine Art |
| Music |  <br> MUL 1000 | 5, 6, 7 | 3 hours Non Applied Fine Art 3 hours Elective |
| Philosophy | PHI 2010 | 4 | 3 hours GR Philosophy |
| Philosophy | PHI 2010 \& PHI 1000 | 5, 6, 7 | 3 hours GR Philosophy 3 hours Elective |
| Physics | PHY 1020C | 4 | 4 hours Lab-Science |
| Physics | $\begin{aligned} & \text { PHY 1020C \& } \\ & \text { PHY } 1009 \end{aligned}$ | 5 | 4 hours Lab-Science 3 hours Non-LabScience |
| Physics | $\begin{aligned} & \text { PHY 2053C \& } \\ & \text { PHY 2054C } \end{aligned}$ | 6, 7 | 4 hours Lab-Science 4 hours Lab-Science |
| Psychology | PSY 2012 | 4 | 3 hours Social Science Part A |
| Psychology | $\begin{aligned} & \text { PSY } 2010 \text { \& } \\ & \text { PSY } 1000 \end{aligned}$ | 5, 6, 7 | 3 hours Social Science Part A 3 hours Elective |
| Social and Cultural Anthropology | ANT 2410 | 4 | 3 hours Cultural Diversity Social Science |
| Social and Cultural Anthropology | ANT 2410 \& ANT 1000 | 5, 6, 7 | 3 hours Cultural Diversity <br> Social Science 3 hours Elective |
| Spanish Language | SPN 1121 | 4 | 4 hours Foreign Language |
| Spanish Language | SPN 1121 \& SPN 2200 | 5, 6, 7 | 4 hours Foreign Language 3 hours Foreign Language |
| Theatre Arts | THE 2000 | 4 | 3 hours Non-Applied Fine Art |
| Theatre Arts | THE 2000 \& THE 2001 | 5, 6, 7 | 3 hours Non-Applied Fine Art |


|  |  |  | 3 hours Elective |
| :--- | :--- | :--- | :--- |
| Visual Arts | ART 1012 | 4 | 3 hours Elective |
| Visual Arts | ART 1012 \& | $5,6,7$ | 3 hours Elective |
|  | ART 1201C | 3 hours Prerequisite <br> /Elective |  |



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## Advanced Placement Credit

Credit will be granted for satisfactory scores on the Advanced Placement (AP) examinations. The chart below can be used as a guide to determine the type and amount of credit.

Information is subject to change.

| AP Course | Equivalency | Score Needed | UNF Credit Received |
| :---: | :---: | :---: | :---: |
| Art History | ARH 2000 | 3 | 3 hours Non-Applied Fine Art |
| Art History |  <br> ARH 2051 | 4, 5 | 6 hours Non-Applied Fine Art/Prerequisite |
| Biology | BSC 1005C | 3 | 4 hours Lab-Science |
| Biology | BSC 1010C | 4 | 4 hours Lab-Science |
| Biology | $\begin{aligned} & \text { BSC 1010C \& } \\ & \text { BSC 1011C } \end{aligned}$ | 5 | 8 hours Lab-Science |
| Calculus AB | MAC 2311 | 3, 4, 5 | 4 hours Gordon Rule Mathematics |
| Calculus BC | MAC 2311 | 3 | 4 hours Gordon Rule Mathematics |
| Calculus BC | MAC 2311 \& MAC 2312 | 4, 5 | 8 hours Gordon Rule Mathematics |
| Chemistry | CHM 1020 C | 3 | 4 hours Lab-Science |
| Chemistry | CHM 2045C | 4 | 4 hours Lab-Science |
| Chemistry | CHM 2045C \& CHM 2046C | 5 | 8 hours Lab-Science |
| **Chinese Language \& Culture | CHI 2200 | 3 | 3 hours Foreign Language |
| **Chinese Language \& Culture | $\begin{aligned} & \text { CHI } 2200 \text { \& } \\ & \text { CHI } 2201 \end{aligned}$ | 4, 5 | 6 hours Foreign Language |
| Computer Science A | CGS 1075 | 3, 4, 5 | 3 hours Elective |
| Computer Science AB | CGS 1076 | 3, 4, 5 | 3 hours Elective |
| Economics: Macro | ECO 2013 | 3, 4, 5 | 3 hours Social Science Part A |
| Economics: Micro | ECO 2023 | 3, 4, 5 | 3 hours Elective/Prerequisite |
| *English Language \& Composition | ENC 1101 | 3 | 3 hours English GR Writing |
| *English Language \& Composition | ENC 1101 \& ENC 1102 | 4, 5 | 6 hours English GR Writing |
| *English Literature \& Composition | ENC 1101 | 3 | 3 hours English GR Writing |
| *English Literature \& Composition |  <br> ENC 1102 | 4, 5 | 6 hours English GR Writing |
| Environmental Science | ISC 1051 | 3, 4, 5 | 3 hours Non-Lab Science |


| European History | EUH 1009 | 3 | 3 hours Core GR Writing |
| :---: | :---: | :---: | :---: |
| European History | EUH 1000 | 4, 5 | 3 hours Core I GR Writing |
|  | EUH 1001 | 4, 5 | 3 hours Core II GR Writing |
| **French Language | FRE 2240 | 3 | 3 hours Foreign Language |
| **French Language | $\begin{aligned} & \text { FRE } 2240 \text { \& } \\ & \text { FRE } 2241 \end{aligned}$ | 4, 5 | 6 hours Foreign Language |
| **French Literature | FRW 3100 | 3 | 3 hours Elective |
| **French Literature |  <br> FRW 3101 | 4, 5 | 6 hours Elective |
| **German Language | GER 2200 | 3 | 3 hours Foreign Language |
| **German Language | $\begin{aligned} & \text { GER } 2200 \text { \& } \\ & \text { GER } 2201 \end{aligned}$ | 4, 5 | 6 hours Foreign Language |
| Government and Politics: Comparative | CPO 2002 | 3, 4, 5 | 3 hours Elective |
| Government and Politics: United States | POS 2041 | 3, 4, 5 | 3 hours Social Science Part A |
| Human Geography | GEO 2400 | 3, 4, 5 | 3 hours Cultural Diversity Social Science |
| **Italian Language \& Culture | ITA 2200 | 3 | 3 hours Foreign Language |
| **Italian Language \& Culture | $\begin{aligned} & \text { ITA } 2200 \text { \& } \\ & \text { ITA } 2201 \end{aligned}$ | 4, 5 | 6 hours Foreign Language |
| **Japanese Language \& Culture | JPN 2200 | 3 | 3 hours Foreign Language |
| **Japanese Language \& Culture | JPN 2200 \& JPN 2201 | 4, 5 | 6 hours Foreign Language |
| **Latin Literature | LNW 2700 | 3, 4, 5 | 3 hours Elective |
| **Latin: Virgil | LNW 2321 | 3, 4, 5 | 3 hours Elective |
| Music Theory | MUT 1001 | $3$ <br> composite | 3 hours Elective Music Theory |
| Music Theory | MUT 1111 \&MUT 1241 | 3, 4, 5 <br> if both aural and non-aural sub-scores are 3 or higher | 6 hours Non-Applied Fine Art/Prerequisite |
| Physics B | PHY 2053C | 3 | 4 hours Lab-Science |
| Physics B | $\begin{aligned} & \text { PHY 2053C \& } \\ & \text { PHY 2054C } \end{aligned}$ | 4, 5 | 8 hours Lab-Science |
| Physics C: Electricity/Magnetism | PHY 2054C | 3 | 4 hours Lab-Science |
| Physics C: Electricity/Magnetism | PHY 2049C | 4,5 | 4 hours Lab-Science |
| Physics C: Mechanics | PHY 2053C | 3 | 4 hours Lab-Science |
| Physics C: Mechanics | PHY 2048C | 4, 5 | 4 hours Lab-Science |
| Psychology | PSY 2012 | 3, 4, 5 | 3 hours Social Science Part A |
| **Spanish Language | SPN 2200 | 3 | 3 hours Foreign Language |
| **Spanish Language | SPN 2200 \& SPN 2201 | 4, 5 | 6 hours Foreign Language |
| **Spanish Literature | SPW 3030 | 3 | 3 hours Elective |
| **Spanish Literature | SPW 3030 \& SPW 3000 | 4, 5 | 6 hours Elective |
| Statistics | STA 2014 | 3, 4, 5 | 3 hours Gordon Rule Mathematics |
| Studio Art: Drawing Portfolio | ART 1300C | 3, 4, 5 | 3 hours Prerequisite/elective |
| Studio Art: 2-D Design Portfolio | ART 1201C | 3, 4, 5 | 3 hours Prerequisite/elective |
| Studio Art: 3-D Design Portfolio | ART 2203C | 3, 4, 5 | 3 hours Prerequisite/elective |
| U. S. History | AMH 1000 | 3 | 3 hours Elective |
| U. S. History | $\begin{aligned} & \text { AMH } 2020 \text { \& } \\ & \text { AMH } 2010 \end{aligned}$ | 4, 5 | 3 hours Social Science Part A <br> 3 hours Elective |
| World History | WOH 2022 | 3, 4, 5 | 3 hours Core II GR Writing |

* Students will not receive English credit for both exams. If a student passes both exams, one will reflect six hours free elective credit.
** Foreign language does not fulfill the UNF general education humanities requirement and will only serve to fulfill free elective credits for the student's program of study.



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## College-Level Examination Program (CLEP) Credit

Credit earned through the College-Level Examination Program (CLEP) at a Florida public institution prior to initial enrollment at UNF will receive equivalent transfer credit. CLEP scores for which credit is not awarded at another Florida public institution will be evaluated in accordance with the statewide articulation agreement. For CLEP tests currently available, UNF students may register for CLEP examinations designed to cover material in the University general education curriculum in accordance with the statewide articulation agreement. Credit earning scores and course credit awarded can be found on the Florida Statewide Course Numbering System website. Students are advised to register for CLEP prior to the semester in which they intend to use the CLEP credit. Official scores must be mailed to One Stop Student Services prior to the end of the add/drop period of the semester in which credit is to be recorded. Students are further advised to refrain from enrolling for any course that requires a prerequisite for which CLEP is to be substituted (i.e., a student should not register for French II if the student is attempting to achieve CLEP credit for French I). A CLEP examination may not be used to forgive a grade already earned.

By presenting appropriate CLEP scores, students may earn as many as 30 credit hours. The applicability of these credits toward completion of general education requirements will be determined by Enrollment Services Processing. Credit will be granted for examinations based on passing scores in the statewide articulation agreement. Further information on the awarding of transfer credit through CLEP may be obtained from One Stop Student Services.

Information is subject to change.

| CLEP Test Title | UNF Course <br> Equivalent | Score <br> Needed | UNF Credit Received |
| :--- | :--- | :--- | :--- |
| American Government | POS 2041 | 50 | 3 hours Social Science <br> Part A |
| American Literature | AML 2000 | 50 | 3 hours Elective |
| Calculus | MAC 2233 | 50 | 4 hours Gordon Rule <br> Mathematics |
| College Algebra | MAC 1105 | 50 | 3 hours Gordon Rule |


|  |  |  | Mathematics |
| :---: | :---: | :---: | :---: |
| College Composition | ENC 1101 \& ENC1102 | 50 | 6 hours English |
| College Composition Modular* |  <br> ENC1102 | 50 | 6 hours English |
| College Mathematics | MGF1107 | 50 | 3 hours Gordon Rule Mathematics |
| English Composition with Essay | ENC 1101 | 50 | 3 hours English |
| English Literature | ENL 1000 | 50 | 3 hours Elective |
| Financial Accounting | ACG 1001 | 50 | 3 hours Elective |
| French -- Coll Lvi I | FRE 1120 | 50 | 4 hours Foreign Language |
| French -- Coll Lvl 2 |  <br> FRE 1121 | 59 | 8 hours Foreign Language |
| General Biology | BSC 1005 | 50 | 3 hours Non-Lab Science |
| General Chemistry | CHM 1020 or CHM 1025 | 50 | 3 hours Non-Lab Science |
| German -- Coll Lvl 1 | GER 1120 | 50 | 4 hours Foreign Language |
| German -- Coll Lvl 2 | GER 1120 \& GER 1121 | 60 | 8 hours Foreign Language |
| History of the United States I: Early Colonization to 1877 | AMH 2010 | 50 | 3 hours Elective |
| History of the United States II: 1865 to Present | AMH 2020 | 50 | 3 hours Social Science Part A |
| Human Growth \& Development | DEP 2004 | 50 | 3 hours Elective |
| Humanities | HUM 1235 | 50 | 3 hours Non-Applied Fine Art |
| Information Systems \& Computer Applications | CGS 1077 | 50 | 3 hours Elective |
| Introductory Business Law | BUL 1241 | 50 | 3 hours Elective |
| Introductory Educational Psychology | EDP 1002 | 50 | 3 hours Elective |
| Introductory Psychology | PSY 2012 | 50 | 3 hours Social Science Part A |
| Introductory Sociology | SYG 2000 | 50 | 3 hours Social Science Part A |
| Precalculus | MAC 1147 | 50 | 3 hours Gordon Rule Mathematics |
| Principles of Macroeconomics | ECO 2013 | 50 | 3 hours Social Science Part A |
| Principles of Management | MAN 2021 | 50 | 3 hours Elective |
| Principles of Marketing | MAR 2011 | 50 | 3 hours Elective |
| Principles of Microeconomics | ECO 2023 | 50 | 3 hours Elective |
| Spanish -- Coll Lvl 1 | SPN 1120 | 50 | 4 hours Foreign Language |
| Spanish -- Coll Lvl 2 | SPN 1120 \& SPN | 63 | 8 hours Foreign Language |


|  | 1121 |  |  |
| :--- | :--- | :--- | :--- |
| Western Civilization I: Ancient Near <br> East to 1648 | EUH 1000 | 50 | 3 hours General <br> Humanities |
| Western Civilization II: 1648 to Present | EUH 1001 | 50 | 3 hours General <br> Humanities |
|  |  |  |  |
|  |  |  |  |

* There is no guarantee that College Composition Modular will be accepted without the essay component.



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## International Student Requirements

In addition to meeting admission standards for their chosen program and major, international students seeking to study at the University of North Florida must satisfy the following requirements in order to be issued a Form I-20. Information related to the admission requirements for specific majors and programs may be found in the Undergraduate and Graduate areas of this catalog. For additional information, please contact the UNF International Center

## United States Immigration \& Financial Requirements

1. Certification of Finances: The Department of Homeland Security requires UNF to ensure that international students have sufficient financial resources before issuing a Certificate of Eligibility (Form I-20). All applicants must complete and submit an Affidavit of Financial Support and Bank Certification. The Affidavit is a document signed by the applicant's sponsor (the person who will be providing the funds) stating the amount of funds that she/he will provide for the educational expenses of the student applicant. A bank official then certifies that the sponsor does have that amount of funds in his/her account. This form represents an obligation on the part of the sponsor to provide the required amount of funds as indicated on the form. Please see "Estimated Costs of Attendance for International Students" to determine the amount of funds needed to be written on the Affidavit.
2. Transfer Students: All applicants intending to transfer from another U.S. university must notify their current school so that the Department of Homeland Security transfer requirements can be initiated. A new form I-20 from UNF cannot be issued until the current school "transfers out" the applicant to UNF in the SEVIS program.

## Health Requirements

Before enrolling in classes at UNF, all admitted students must supply the following health certifications. These certifications are not necessary in order to apply for admission to UNF; however, they are necessary in order for admitted students to register for classes. Please visit the Medical Compliance section of the catalog and the Medical Compliance website for additional information.

1. Certification of Health Insurance: All students in an immigration status of F1 or J1 must show proof of health insurance before registering for classes. Students with current insurance coverage may fill out the International Insurance Evaluation form available from the UNF Medical Compliance office. Students without insurance may purchase insurance through UNF Medical Compliance.
2. Certification of Immunization: All students born after 1956 must meet immunization requirements of two doses of Measles and one dose of Rubella. All new matriculating students must provide documentation of vaccination against Meningococcal Meningitis and Hepatitis B unless the student has signed a waiver declining each of these vaccinations and
acknowledging receipt and review of the University-provided information concerning
Meningitis and Hepatitis B. Please refer to the Medical Compliance Immunization Form.


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# Brooks College of Health Undergraduate Admission Requirements Limited Access Programs 

## School of Nursing

- R.N.-B.S.N.- Bridge
- Regular Prelicensure B.S.N.
- Accelerated Prelicensure B.S.N.


## Department of Clinical and Applied Movement Sciences

- Athletic Training
- Exercise Science


## School of Nursing

## R.N.-B.S.N.- Bridge Curriculum Plan

## Admission Requirements

1. Active license to practice nursing in Florida
2. Prospective students must successfully complete the following to enroll in nursing courses:
a. Sixty (60) semester hours of coursework with the satisfaction of UNF general education, and

## -OR-

b. An A.A. degree from a Florida public institution
3. Minimum overall GPA of at least 2.9 on a 4.0 scale
4. Completion of nursing prerequisite courses with no grade lower than "C".
5. Complete and submit supplemental application via fax or email (Do not submit supplemental application to the School of Nursing by mail or in person).

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## Regular Prelicensure B.S.N. Curriculum Plan

## Admission Requirements

1. a. Sixty (60) semester hours of courses with satisfaction of UNF general education

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requirements;
b. Completion of all nursing prerequisite courses.
-OR-
a. An Associate of Arts (A.A) degree from a Florida community college/university; and
b. Completion of all nursing prerequisite courses.
2. Minimum overall GPA of at least 2.9 on a 4.0 scale;
3. Completion of all BSN prerequisite courses with no grade lower than " C " and a minimum prerequisite GPA of a least 2.9 on a 4.0 scale.
4. Completion of the Test of Essential Academic Skills (TEAS)- Version V.
5. Complete and submit supplemental application via fax or email (Do not submit supplemental application to the School of Nursing by mail or in person).
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## Accelerated Prelicensure B.S.N. Curriculum Plan

## Admission Requirements:

1. Graduation from a regionally accredited institution with a baccalaureate degree;
2. Minimum overall GPA of 3.0; and
3. Completion of all BSN prerequisite courses with no grade lower than " C " and a minimum prerequisite GPA of a least 2.9 on a 4.0 scale.
4. Completion of the Test of Essential Academic Skills (TEAS)- Version V.
5. Complete and submit supplemental application via fax or email (Do not submit supplemental application to the School of Nursing by mail or in person).

## B.S.N. Prerequisite Requirements (all tracks)

| Course | Title | Credits |
| :--- | :--- | :---: |
| **PSY, SYG, SOP | Social Science | 3 |
| DEP3054 | Lifespan Developmental Psychology | 3 |
| STA2014 | Statistics | 3 |
| HUN2201 | Human Nutrition | 3 |
| MCB2010C | Microbiology | 4 |
| BSC2085C | Anatomy \& Physiology I and lab | 4 |
| BSC2086C | Anatomy \& Physiology II and lab | 4 |
| *CHM, BCH, BSC, PCB, or PHY | Chemistry or other science | 3 |
|  | Total | $\mathbf{2 7}$ |

*Note that CHM2045/2045L is required as one of the prerequisites to MCB2010C at UNF. While CHM1020 or CHM1025 will meet this category in general, applicants are cautioned to check that the course they select for the "Chemistry or Other Sciences" requirement will allow them to enter MCB at their institution of choice. This is also why UNF recommends 28 hours of prerequisites instead of 27.
**PSY maybe required as a prerequisite to DEP3054.

## Department of Clinical and Applied Movement Sciences

## Bachelor of Science in Athletic Training

## Admission Requirements- Limited Access Criteria

Due to the exceptional number of applicants, the Athletic Training Education Program at UNF has been designated as a limited access Program and abides by the rules for limited access Programs established by the Florida Board of Governors as follows:

1. Students who have graduated from a Florida Community College with an Associate in Arts degree or those who have successfully completed 60 or more semester hours of course
work at public universities in Florida will receive priority for admission over other applicants.
2. Selection criteria will not discriminate against Florida Community College transfer students in favor of public university students who are applying for admission or plan to continue enrollment after completion of 60 semester hours at the lower division level.
3. Where necessary to achieve established equal access enrollment goals, some students may be admitted to the Program using different criteria.

Successful completion of admission requirements does not guarantee acceptance into the Athletic Training Education Program. Enrollment in the Athletic Training Education Program is limited by clinical education site availability to a total of 55-60 students at any one time, with 30-35 new students typically admitted each year from a competitive applicant pool.

## Application Process

Application deadline is MAY 1 (postmark) of the year of application to the Athletic Training Education Program. The Athletic Training Education Program has a separate application form that must be completed. This supplemental application can be found on the Brooks College of Health Athletic Training Education Program website. Students not currently enrolled at UNF must apply for admission to UNF through the UNF Office of Admissions (904-620-5555) and designate Athletic Training as their preferred major on the UNF application form. Students currently enrolled at UNF must request a major change at the Brooks College of Health Advising Office to declare Athletic Training as their major prior to the MAY 1 deadline. To be considered for admission to the Athletic Training Education Program, each applicant must fulfill the following minimum requirements:

1. Submission of all official transcripts and documentation by May 1 of the year of application;
2. Submission of a complete Athletic Training Education Program supplemental application by May 1 of the year of application;
3. Attainment of minimum of 2.80 GPA overall;
4. Attainment of minimum of 2.80 GPA in all prerequisite courses;
5. Demonstration of communication and interpersonal skills during a required interview;
6. Completion of all general education and prerequisite courses prior to entering the Athletic Training Education Program;
7. Students must have a health evaluation completed by a health care professional (MD, DO, PA, NP) in light of the technical standards established by the Athletic Training Education Program. Included in this evaluation must be documented immunizations recommended by the Centers for Disease Control and Prevention for health care workers including: hepatitis $B$, measles, mumps, rubella, tetanus, and diphtheria. Any specific questions regarding the health care evaluation and immunizations should be referred to the Program Director.

To view the Athletic Training Education Program of study please click here.

## Bachelor of Science in Health; Concentration in Exercise Science

## Admission Requirements

Due to the exceptional number of applicants, the Exercise Science Program at UNF has been designated as a "limited access" Program and abides by the rules for "limited access". Programs established by the Florida Board of Governors as follows:

1. Students who have graduated from a Florida Community college and an Associate in Arts degree or those who have successfully completed 60 or more semester hours of course work at public universities in Florida will receive priority for admission over other applicants.
2. Selection criteria will not discriminate against Florida community college transfer students in favor of public university students who are applying for admission or plan to continue enrollments after completion of 60 semester hours at the lower division level.
3. Where necessary to achieve established equal access enrollment goals, some students may be admitted to the program using different criteria.

## Application Process

Application deadline is MAY 1 (postmark) of the year of application to the Program. Students not currently enrolled at UNF must apply for admission to UNF through the UNF Office of Admissions (904-620-5555) and designate exercise science as their preferred major on the UNF application
form. Students currently enrolled at UNF must request a major change at Brooks College of Health Advising Office to declare exercise science as their major prior to the MAY 1 deadline. To be considered for admission to the Exercise Science Program, each applicant must fulfill the following minimum requirements:

1. Submission of UNF application, all official transcripts, and documentation by May 1 of the year of application; Current UNF students must change their major prior to the May $1^{\text {st }}$ deadline.
2. Attainment of minimum of 2.75 Overall GPA.
3. Attainment of minimum of a $B$ grade or higher in the following prerequisite courses: (BSCX085/BSCX085L- Anatomy and Physiology I and Lab; BSCX086/BSCX086L Anatomy and Physiology II and Lab; CHMX045/CHMX045L College Chemistry and Lab; MACX105 College Algebra)
4. Seven of the eight prerequisites must be completed by application deadline. Three of the seven completed prerequisites must be BSC2085C, BSC2086C, CHM2045/2045L, MAC1105. Remaining prerequisite must be completed no later than summer term, prior to fall admission.
5. Completion of all general education and prerequisite courses prior to entering the Exercise Science Program.
6. Completion of the Test of Essential Academic Skills (TEAS) version V; (See website for additional information).
7. Submission of Exercise Science Admission Essay (See website for additional information).

Successful completion of admission requirements does not guarantee acceptance into the Program. Enrollment in the Program is limited by available faculty resources to a total of 75-80 students at any one time, with 35-40 new students typically admitted each year from a competitive applicant pool. To view the Exercise Science program of study click here.


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## Transient Enrollment

Transient enrollment refers to degree-seeking students in good standing at another approved postsecondary institution who wish to take courses for one term at UNF to transfer credit back to their home institution. Additional information, including the process by which a transient student may apply, register, and pay tuition and fees is available online. Transient students register for classes on a space-available basis and are not eligible for financial aid via UNF.

To view the University's current official policy, click here.


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## Transfer Student Bill of Rights

Those who earn an Associate in Arts degree (A.A.) from a Florida public university, state college, or community college are guaranteed certain rights under the Statewide Articulation Agreement. A list of rights is provided below:

- Admission to one of the state universities, except to limited access programs which have additional admission requirements;
- Acceptance of at least 60 semester hours by the state universities toward the baccalaureate degree;
- Adherence to university requirements and policies based on the catalog in effect at the time the student first entered a Florida public college, provided the student maintains continuous enrollment;
- Transfer of equivalent courses under the Statewide Course Numbering System;
- Acceptance by the state universities of credit earned in accelerated programs (i.e., CLEP, AP, Excelsior College Examinations, Dual Enrollment, Early Admission, International Baccalaureate, and University of Cambridge International Examinations);
- No additional General Education Core requirements;
- Advance knowledge of selection criteria for limited access programs; and
- Equal opportunity with native university students to enter limited access programs.
A.A. students who feel they have not been accorded their rights should contact One Stop Student Services.

Members of the community who believe that they have not been accorded rights under the Civil Rights Act of 1964 or Title IX of the Higher Education Amendments of 1972 may submit inquiries to the Office of Equal Opportunity Programs.

For more information about the Statewide Articulation Agreement, click here.


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## Foreign Language Requirement

By action of the Florida Legislature, undergraduate students who enter a state university in Florida are subject to a foreign language admission requirement. To satisfy the requirement, a student must present evidence of:

- The successful completion of two years of sequential foreign language (sequential levels of the same foreign language) or two years of American Sign Language study in high school, or
- The successful completion of 8-10 semester hours of sequential foreign language (sequential levels of the same foreign language) or American Sign Language at the postsecondary level, or
- Proficiency through a satisfactory score on the College Entry-Level Assessment (CELA), formerly (MAPS) test, for Latin or the College-Level Examination Program (CLEP) foreign language examination.



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## Limited Access \& Selective Admission Programs

A number of UNF academic programs are limited access or have selective admission requirements. Admission to these programs is selective or competitive. Applicants to these programs must meet or exceed the admissions requirements as established by the individual programs. The following programs are limited access or require selective admissions procedures. Contact the specific departments listed for additional information.

## Brooks College of Health

- Athletic Training

Additional information is available from the Brooks College of Health.

- Exercise Science

Additional information is available from the Brooks College of Health.

- Nursing

Additional information is available from the School of Nursing, Brooks College of Health.

## College of Arts \& Sciences

- Biology

Additional information is available from the Department of Biology, College of Arts \& Sciences.

- Graphic Design and Digital Media (BFA)

Additional information is available from the Department of Art \& Design, College of Arts \& Sciences.

- Multi-Interdisciplinary Studies

Additional information is available from the Office of Academic Advising, College of Arts \& Sciences.

- Music

Jazz Studies, Music Education, and Music Performance: Additional information is available from the Department of Music, College of Arts \& Sciences.

- Social Work

Additional information is available from the Department of Sociology \& Anthropology, College of Arts \& Sciences.

## College of Computing, Engineering \& Construction

- Civil Engineering

Additional information is available from the School of Engineering, College of Computing, Engineering \& Construction.

- Electrical Engineering

Additional information is available from the School of Engineering, College of Computing, Engineering \& Construction.

- Mechanical Engineering

Additional information is available from the School of Engineering, College of Computing, Engineering \& Construction.

## College of Education \& Human Services

- Education

Additional information is available from the Office of Academic Advising, College of Education \& Human Services.


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# Brooks College of Health Overview 

- Dean's Message
- Vision, Mission and Values of the College


## Welcome to Brooks College of Health

Could you picture yourself in a remote village in Ghana, immersed in a culture foreign to you and helping a mother deliver her child? Now imagine a famous professional athlete as he sprints on a treadmill, with you standing beside him to measure his lung capacity. Envision a room full of children in the heart of Jacksonville's impoverished urban core, listening intently as you teach them about the importance of hand washing - lessons they desperately need to hear.

These experiences are not fiction. Students in the Brooks College of Health have had these opportunities - and more - as a result of our understanding that students' education bears more impact through transformational learning opportunities.

## Our Programs

In the University of North Florida Brooks College of Health, we pride ourselves as being a leader in the preparation of the highest quality health care professionals dedicated to serving the community. For this reason, the College is continually working to provide specialized programming in a wide range of health care fields. Currently, the Brooks College of Health offers Bachelor's degrees in Health with specializations in Community Health, Athletic Training, Exercise Science, and Health Administration. We also offer a Bachelor of Science in Nutrition and in Nursing as well as an RNBSN program for registered nurses desiring to further their education.

Our graduate programs include a Master's degree in Nursing, Public Health, Health Administration, Mental Health Counseling, Aging Services Management and Nutrition. We also offer two doctoral degrees: a Doctorate of Nursing Practice and a Doctorate of Physical Therapy.

An integral part of each of these outstanding programs is the emphasis on quality time in clinical settings and laboratories, the use of the most up-to-date technologies, innovative faculty and student research, and the opportunity for hands-on learning experiences. Of course, all of these diverse programs and learning opportunities are directed and enhanced by our outstanding faculty.

We know there is no one like you. We believe there is no place quite like this. While academic rigor and meticulous professional experiences are the hallmarks of an education at the Brook College of Health, there is very much a culture of caring. We are dedicated to providing the highest quality health care.

I hope you will take some time to learn more about the Brooks College of Health and all that we

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Center for Global Health and Medical Diplomacy
have to offer. While exploring our program offerings, college news, alumni activities and faculty home pages, you will find that we are dedicated to providing the utmost in quality health care education.


Pamela S. Chally, PhD, RN
Dean, Brooks College of Health
University of North Florida
pchally@unf.edu

## Vision, Mission and Values of the College

## Vision

To gain national recognition as a leader in the study of health and the preparation of health professionals through outstanding teaching, scholarship, and service.

## Mission

To develop competent and caring health professionals for the 21st century who are diligent in the pursuit of knowledge, make significant contributions to the communities and individuals that they serve, and become leaders of their chosen professions.

## Values

In the fulfillment of our mission, the Brooks College of Health upholds the following values:
Collegiality: We support a culture characterized by open communications, collaboration, and cooperation.
Diversity: We treat everyone in our diverse community with consideration, dignity and mutual respect.
Excellence: We hold each other to the highest standard of quality and performance.
Fulfillment of Potential: We are committed to development through lifelong learning.
Integrity: We conduct ourselves in an ethical and respectable manner.
Professionalism: We are role models of professionalism who always demonstrate the highest professional standards and caring attitudes for our clients.
Quality: We are dedicated to the never-ending pursuit of improving healthcare for the benefit of our patients.
Responsibility: We are responsible for our attitudes and actions.
Service: We provide service to our university, communities and professions.
Well-Being: We promote physical, emotional, and social well-being.

## Goals

1: Strengthen Quality and Reputation of Academic Programs
2: Increase Degree Productivity and Program Efficiency.
3: Increase the Number of Degrees Awarded in STEM and Other Areas of Strategic Emphasis.
4: Strengthen the Quality and Reputation of Scholarship, Research, and Innovation.
5: Increase Research and Commercialization Activity.
6: Increase Collaboration and External Support for Research Activity.

7: Strengthen the Quality and Recognition of Commitment to Community and Business.
8: Increase Levels of Community and Business Engagement.
9: Increase Community and Business Workforce.
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## Brooks College of Health

## Contact Information

Location: J. Brooks Brown Hall, Building 39
Phone: (904) 620-2810
Fax: (904) 620-1030

## Mailing Address:

University of North Florida
Brooks College of Health
1 UNF Drive, Building
Jacksonville, Florida 32224-7699

## Dean's Office

Pamela S. Chally, Ph.D., R.N., Dean
(904) 620-2810; pchally@unf.edu

Catherine Christie., Ph.D, R.D., L.D./N., F.A.D.A., Associate Dean \& Nutrition Graduate Program Director
(904) 620-2810; c.christie@unf.edu

Betty Lustig, M.S., Director, Development
(904) 620-2810; betty.lustig@unf.edu

Lee B. Anderson, Assistant Director, Development (904) 620-1286; lee.anderson@unf.edu

Heather Kenney, Ed.D., Director, Academic Advising (904) 620-2812; heather.kenney@unf.edu

Rachel Martin, M.A.,Career Development Coordinator (904) 620-3497; r.martin@unf.edu

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## Pamela Niemczyk, Administrative Assistant

(904) 620-2810; pniemczy@unf.edu

Judy Kraft, Executive Secretary
(904) 620-1055; j.kraft@unf.edu

Dona Yazbeck, Executive Secretary
(904) 620-1201, d.yazbec@unf.edu

Theresa Bennett, Budget Coordinator
(904) 620-2810; tbennett@unf.edu


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## Brooks College of Health Academic Advising

Office Location: Building 39, Room 2031
Office Hours: Monday-Friday 8am-5pm (call for available walk-in advising hours or to schedule an appointment)
Phone: (904) 620-2812
Fax: (904) 620-1770
Email: cohadvis@unf.edu

## Undergraduate

Heather Kenney, Ed.D. Director, Academic Advising
Miwa Nguyen, M.Ed, Senior Academic Advisor
Debbie Kochanowski, M.Ed; Academic Advisor
Dwayne Peterson, M.S., Academic Advisor
Carol Murry, Administrative Assistant

## Advising Mission

The Brooks College of Health Advising Office takes a proactive approach in serving all student populations interested in the health field. By advocating and collaborating with all University resources the advising office will assist students in building strong academic and personal skills. Advising will provide personalized and developmental advising geared to assist students academic and career goals. In addition, Advising promotes independent decision making skills that develop competent individuals.

## Advising Philosophy

We strive to guide you towards your academic goals by providing information, references, and advice; however, we will not make your choices for you. Advising is an engaging process between the advisor and the advisee where ultimately you are in full control of your educational experience. We are your resource to help you succeed.

## Advisor responsibilities:

To support the core values of the UNF advising program, advisors will...

- Demonstrate professionalism and empathy towards their advisees
- Assist students in understanding the purposes and goals of higher education and its effects on their lives and personal goals

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- Encourage individualistic goals and decision making
- Initiate motivation and ambition for development and self-improvement
- Be knowledgeable of policies, procedures, student services and reference information
- Recommend social and academic extra-curricular organizations in addition to applicable campus resources
- Maintain confidentiality and uphold FERPA Regulations


## Graduate

## Program Directors

John P. McDonough, Ed.D, C.R.N.A., Professor- Director, Nurse Anesthetist Program Michele Benarzyk, D,N.P, F.N.P., B.C., Assistant Professor - Program Director, Nurse Practitioner Program
Gerald Hogan, D.N.S.C., C.R.N.A., Assistant Professor - Director, Nurse Practitioner Program
Michele Moore, Ph.D., Associate Professor- Director, Public Health Program
Mei Zhao, Ph.D., Associate Professor- Director, Health Administration Program
JoAnn Nolin, J.D., R.N., Associate Professor- Director, Aging Services Program
Paul Mettler, Ed.D., M.A., P.T., Associate Professor- Director, Physical Therapy Program
Catherine Christie, Ph.D., R.D., L.D./N., F.A.D.A., Professor- Director, M.S. Nutrition Program
Claudia Sealey-Potts, Ph.D., R.D., Assistant Professor- Director, Dietetic Internship Program Sharon Wilburn, Ph.D, Professor \& Richmond Wynn, Ph.D, Assistant Professor- Directors, Clinical Mental Health Counseling Program

James Churilla, Ph.D., MPH, RCEP, Associate Professor- Director, Exercise Science \& Chronic Disease

Graduate students work with their program directors to develop their initial programs of study. The BCH Advising Office is available for advising assistance.


## Brooks College of Health Undergraduate Academic Policies

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- Concurrent or Transient Enrollment
- Degree Evaluation
- Graduation
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- Withdraw Policy


## Change of Major

UNF students who want to change their major to a Brooks College of Health program must change the major within the Advising Office. The advisor will help the student change their major and review program requirements.
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## Concurrent or Transient Enrollment

Any current UNF student interested in taking a course at another institution must receive permission from the Advising Office. Upper-level courses specific to the student's major must be approved by the program director. Students should fill out the electronic transient form prior to the semester they wish to take the course.
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## Degree Evaluation

Each new upper-level transfer student and native UNF student must meet with the Brooks College of Health Academic Advising Office to review their degree evaluation. This meeting is mandatory and typically takes place prior to registration. Each admitted student or UNF student who reaches 60 credits will receive notification for a meeting. A Dean's Hold will be placed on the student's account to ensure they meet with Advising in a timely manner.
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Graduation

All students must submit an application for graduation to the Office of One Stop Student Services or on-line through myWings by the deadline established in the university calendar. Students should not enroll at another institution during their last semester at UNF. Graduation will most likely be delayed to the subsequent semester for students who do attempt concurrent enrollment in their last semester. Students may not graduate with "I" grades, even if the course(s) is not required for graduation. Official transcripts for graduating seniors taking courses at other institutions in their last semester must be received in the Office of One Stop Student Services by the required deadline.
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## Limited Access Program

The Brooks College of Health has several undergraduate programs that require specific requirements and procedures to gain admissions into the program. Bachelor of Science in Nursing, Bachelor of Science in Health with a concentration in Exercise Science, and Bachelor of Science in Athletic Training are limited access programs. For additional information, please see program specific admission requirements.
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## Probation/Suspension

Undergraduate students who fails to earn a term GPA or cumulative GPA of 2.0 after attempting 12 or more credits hours will be placed on academic probation. Academic Probation is based on the student's UNF GPA. The student will stay on probation until their UNF cumulative and term GPA are above a 2.0. If a student is on probation and has a cumulative and term GPA below a 2.0, the student is eligible for suspension. Students who are suspended will be dropped from any courses they are currently registered.
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## Returning from Probation or Suspension

Students on probation that go inactive after three semesters must receive permission from the program director to be re-admitted into the major. Suspended students who wish to be re-admitted must receive permission from the program director and chairperson. Certain majors within Brooks College of Health will not re-admit students who left the institution on probation or were suspended.
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## Withdraw Policy

Effective Fall 2013, there is a course withdrawal limit for all degree-seeking and non-degree seeking undergraduate students. The limit is six (6) UNF course withdrawals.

- Three (3) course withdrawals at the $1000 / 2000$ level
- Three (3) course withdrawals at the 3000 level or above

Unused withdrawals are forfeited and may not be carried forward. After the withdrawal limit is reached, students will be blocked from further course withdrawals by the myWings registration system.

Any course withdrawals that took place prior to Fall 2013 do not count toward the limit. The withdrawal limitation only applies to courses taken in Fall 2013 or later. Courses with a grade of "WM" (Medical Withdrawal), "WS" (Military Service Withdrawal), or "WR" (Withdrawal with Refund) are excluded from the limitation policy. Students are encouraged to meet with their advisor prior to completing a course withdrawal if there are questions about how this will affect the academic record or future coursework options.

Please note that graduate students do not have a withdrawal limit.


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## Brooks College of Health Undergraduate Majors

- Athletic Training, BSAT
- Health Administration, BHA
- Health Administration- Aging Services, BHA
- Health Science - Community Health, BSH
- Health Science - Exercise Science, BSH
- Nutrition and Dietetics, BS
- Nursing - Nursing-RN, BSN
- Nursing - Prelicensure Accel. Nursing, BSN
- Nursing - Prelicensure Nursing, BSN


## Baccalaureate Degree Programs

The baccalaureate degrees offered include: Bachelor of Science in Health (B.S.H.), with concentrations in Community Health and Exercise Science; Bachelor of Science in Nutrition; Bachelor of Health Administration; Bachelor of Science in Athletic Training; and a Bachelor of Science in Nursing with tracks for first-time-in-nursing students (Prelicensure) for registered nurses seeking to complete the baccalaureate degree (RN-BSN).
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## Brooks College of Health Undergraduate Minors

Clinical and Applied Movement Sciences


#### Abstract

** Note: Students completing the Clinical \& Applied Movement Science minor may require an additional one or two semesters to satisfy requirements due to limited seats available in the minor courses and the courses are only offered once per academic year.


## Health Education

** Note: This Health Education Minor is only available to Health Science major with Community Health concentration students.

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## Brooks College of Health Graduate Program Academic Policies

All graduate programs follow university policies within the Graduate School Policies and Regulations. Each graduate program has specific policies pertaining to their program. Graduate Student Handbooks can be found online or by contacting the graduate program director.

## Graduate Program Directors

John P. McDonough, Ed.D, C.R.N.A., Professor- Director, Nurse Anesthetist Program
Michele Benarzyk, D,N.P, F.N.P., B.C., Assistant Professor - Program Director, Nurse Practitioner Program
Gerald Hogan, D.N.S.C., C.R.N.A., Assistant Professor - Director, Nurse Practitioner Program Michele Moore, Ph.D., Associate Professor- Director, Public Health Program
Mei Zhao, Ph.D., Associate Professor- Director, Health Administration Program
JoAnn Nolin, J.D., R.N., Associate Professor- Director, Geriatric Management Program Paul Mettler, Ed.D., M.A., P.T., Associate Professor- Director, Physical Therapy Program James Churilla, Ph.D., MPH, RCEP, Associate Professor, M.S.H Exercise Science and Chronic Disease Program Director
Catherine Christie, Ph.D., R.D., L.D./N., F.A.D.A., Professor- M.S.H. Nutrition Program Director Claudia Sealey-Potts, Ph.D., R.D., Assistant Professor- Dietetic Internship Program Director Richmond Wynn, Ph.D, Assistant Professor- Clinical Mental Health Counseling Program Director

Graduate School
E-mail: graduateschool@unf.edu
J.J. Daniel Hall

Building 1, Room 2000
Telephone (904) 620-1360
Fax: (904) 620-1362

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. Readmission of Inactive Students
- Graduate Program Course Level
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- Graduate Program Independent Learning
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- Satisfactory Academic Progress
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## Graduate Transfer

The residency requirement at UNF is 24 semester credit hours; 18 of which must be taken at the 6000 level. No student may earn a UNF graduate degree without 24 hours of UNF graduate course credit. It is also required that students earn a majority of credits toward their degrees at UNF.

Individual programs have particular requirements concerning transferring in credits; most graduate programs at UNF allow a student to transfer in approximately 20 percent of the overall graduate credits required for a degree (rounded up to the nearest number divisible by 3) from another regionally accredited institution, as allowable under the residency requirement and as approved on a course by course basis at the discretion of the appropriate graduate program director. Additional credits may be transferred in via special petition, subject to the approval of the appropriate graduate program director and the Graduate Dean. No student may transfer in more than 40 percent of the overall credits required for a degree.

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A student who transfers in more than 20 percent of the credits required for a degree may not apply any credits earned as a transient student (hours taken at another institution while the student is matriculating at UNF) toward fulfillment of that degree's requirements without prior approval of the appropriate graduate program director and the Graduate Dean. Students wishing to enroll in courses at another institution for the purpose of transferring credits into their graduate program of study must complete a "Concurrent Enrollment" form and have prior approval from the appropriate graduate program director.

Additional credit transfer conditions:

1. The student must have completed the course work subject to the time limits applicable to his or her current graduate program.
2. The student must have earned grades of 3.0 or higher in the courses.
3. The student is not entitled to apply transfer credits toward the 18 hour minimum of 6000 -level courses required for all master's degrees.
4. The student is not entitled to transfer credit for correspondence courses, courses included in a completed degree program, or portfolio-based experiential learning that has taken place prior to admission to the current graduate program.
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## Transient Student Admission

## Special Admission

Under certain circumstances students currently enrolled at other universities may enroll at UNF as "transient students" on a space available basis.

## Special Admission for Transient Students

A student in good standing at an approved institution may apply to UNF for one term to complete work; the credit for which will be transferred back to the student's home institution. Applicants must submit either an official transcript or a letter from their college or university's Registrar verifying their good standing. A transient enrollment form or other documentation may be required by the program in which the student seeks to take coursework.

## Special Admission for Inter-Institutional Transient Students

A student in good standing at a school participating with UNF in various exchange programs or exchange agreements may apply to UNF for one term, or for the duration of a special program, to complete work the credit for which will be transferred back to the home institution. The student must be sponsored by his or her academic dean, who is responsible for arranging with the UNF Registrar's Office and the appropriate college dean for the student's visit. The student will register at UNF and pay UNF tuition and registration fees. The process is the same for UNF students seeking to attend other institutions for a single term or for the duration of a special program. UNF students must have the support of their academic dean, who is responsible for arranging their visits. UNF students will register at and pay the tuition and fees of the institution they are visiting.
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## Readmission of Inactive Students

Students who have been accepted previously but who never enrolled or who have not taken courses for one year (three consecutive terms, including summers) must update their admissions applications with the Graduate School. They must do so at least six weeks before the beginning of the term in which they wish to enroll. They will be responsible for meeting any new general admissions requirements or program specific requirements.
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## Graduate Program Course Level

Eighteen (18) hours of any UNF graduate degree must be successfully completed at the 6000 level. All graduate and post-baccalaureate professional degree programs at the University of North Florida shall include only courses at the 5000 level and above. This does not include (1) pre-requisites, (2)
minors, (3) teacher certification add-on programs, or (4) field-based coursework connected to teacher certification programs.

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## Degree Completion within Six Years

All coursework for a graduate or post-baccalaureate professional degree must be completed within six years of a master's degree-seeking student being admitted to a graduate program. All coursework for a doctoral degree must be completed within eight years. All exceptions must be approved by the student's Graduate Program Director and the Dean of the Graduate School.
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## Second Masters Residency

For a second master's degree, at least 24 hours of UNF graduate coursework in residency is required. Coursework counted in the fulfillment of any other UNF degree requirements cannot be counted toward this second master's residency requirement.

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## Graduate Program Independent Learning

All graduate and post-baccalaureate professional degree programs at the University of North Florida include opportunities for students to participate in independent scholarly/research engagement and/or appropriate professional preparation experiences. These opportunities may be offered through traditional thesis or dissertation experiences, through culminating-experience projects, or through assignments embedded in particular courses in a program.

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## Credit Earned as Post-Baccalaureate

A student may apply up to 10 hours of graduate course work taken at UNF as a post-baccalaureate. (Such credits will be included in the student's UNF graduate GPA.) The student must receive the approval of the Program Director, who will then inform The Graduate School.
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## Graduate GPA Policy

The Graduate GPA includes all graduate credits taken once the student has been accepted as a degree-seeking graduate student. This includes all graduate credits, even before official admission to a graduate program, when those credits are used to fulfill degree requirements.

Graduate credits taken as a post-baccalaureate student, when those hours are not counted toward fulfillment of degree requirements, are not counted in the construction of the Graduate GPA. Undergraduate credits, no matter when they are taken, are not counted. Transfer credits are not counted, with the exception of joint international degree programs. All graduate credits from these programs are used to calculate the graduate GPA.
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## Satisfactory Academic Progress

## Good Academic Standing

A graduate student who has a cumulative UNF Graduate GPA of 3.0 or higher is considered to be in good academic standing.

A graduate student must have a cumulative UNF Graduate GPA of 3.0 or higher to be eligible for graduation and the award of a graduate degree.

Graduate students who hold assistanships and fellowships are expected to be in good academic standing.

## Academic Probation

A graduate student who fails to maintain a cumulative UNF Graduate GPA of at least 3.0 will be considered not in good academic standing and will be placed on academic probation. Probation shall be noted on the academic transcript for each term in which the cumulative UNF Graduate GPA is below 3.0.

## Academic Suspension and Dismissal

1. If, while a graduate student is on probation, the cumulative UNF Graduate GPA does not reach 3.0 in the next academic term, the student is eligible for suspension or dismissal from the program.
2. If, while a graduate student is on probation, he or she earns a D or F in a graduate course in his or her program of study, the student is eligible for suspension or dismissal from the program.

The decision concerning whether the student is actually placed on academic suspension rests with the particular program's Graduate Program Director and/or the program's Graduate Program Committee (should the program have one).

Academic suspension is noted on the academic transcript. A graduate student may not register for courses while on academic suspension. The decision to release the student from academic suspension rests with the particular program's Graduate Program Director and/or Graduate Program Committee.

Decisions made by Graduate Program Directors and/or Graduate Program Committees may be appealed by graduate students; such appeals are made through the normal academic appeals process as specified in the Graduate Catalog and Student Handbook.

## Program-Specific Policies

Many programs have program-specific policies further defining good academic standing and related matters. These program-specific policies, if inclusive of higher standards than those of the university, supersede university policy. Please refer to individual program requirements for more information.
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## Dismissing a Student from a Graduate Program

When a student is being considered for dismissal from his/her graduate program, either at the end of a term or during a term, the Graduate Program Director and the Graduate Program Committee (should there be one) will:

1. ensure dismissal of a student from the program is supported by published policy;
2. inform the student, both through email and regular mail, of the matte;
3. offer the student an opportunity to meet with the Graduate Program Director to plead his/her case, if the decision to dismiss the student is to be made by the Graduate Program Director;
4. offer the student an opportunity to address a meeting of the Graduate Program Committee, if there is to be a Graduate Program Committee meeting for the purpose of deciding whether or not to dismiss the student;
5. inform the student of available appeal procedures and describe them, if it has been determined the student is to be dismissed from the program.

If any meetings occur, with or without a committee, the Graduate Program Director must write formal minutes. If no meetings occur, the Graduate Program Director will write a memorandum describing the decision-making process. Minutes of meetings, memoranda, and all appropriate supporting documentation, will be shared with the department chair, college dean, and the graduate dean.

If the student is dismissed from his/her graduate program, the student's transcript will bear an appropriate notation, and the student will receive no refund of tuition or fees.

## Graduate Dual International Degrees

Effective fall 2010, all dual graduate degrees offered through joint, cooperative, or collaborative academic arrangements between UNF and international institutions must meet the following requirements:

1. The minimum number of graduate credit hours required is 48 hours;
2. Students must earn a minimum of $50 \%$ of the total number of credit hours, including the international coursework, from UNF;
3. The graduate GPA includes all graduate credits taken as part of the degree including those from the international institution(s).
4. In an effort to provide accurate student transcripts, UNF will include course names and grades on the students' UNF transcritps for all degree-required, earned credit courses that are transferred into UNF as part of pre-approved international programs operating under collaborative academic arrangements. Courses listed will be printed under a header indicating that they are part of a university-approved program.

Any program approved prior to fall 2010 (GlobalMBA, Ibero-American MBA) is exempt from item 1 and 2 listed above.
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## Graduate Admissions

(1) The following are the minimum requirements for admission to graduate programs at the University of North Florida.
a. A baccalaureate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution with a grade point average of 3.00 (B) or higher in all work attempted as an upper-division student, normally the 60 semester hours taken during the last two years of baccalaureate study, or b. An earned graduate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution.
(2) Applicants who hold baccalaureate degrees from an international institution must submit a course-by-course degree evaluation from a UNF and NACES approved evaluation service or, on exception, a course-by-course evaluation performed by the University's International Center.
(3) Additionally, all applicants to master's programs must meet the following specific requirements:
a. Each master's program may determine other requirements for admission (e.g., standardized test scores, written essays, an interview), consistent with their mission and purpose. Any additional admissions requirements so imposed by masters programs must be approved by the Dean of the Graduate School and published annually in the Graduate Catalog and on the program website area of the Graduate School for the masters program; further, such requirements shall be reviewed and updated annually.
b. These requirements shall not include preferences in the admissions process for applicants on the basis of any category protected by law.
c. The submitted materials must be used in the context of a holistic credential review process.
(4) Additionally, all applicants to doctoral programs must meet the following specific requirements:
a. Each applicant to a doctoral degree program shall present standardized test scores that are acceptable for the program to which the student is applying.
Acceptable tests include the Graduate Record Examination (verbal, quantitative, and writing), the Miller's Analogies Test, or the GMAT, whichever is deemed most appropriate by the program. Students, including international students, who already have a graduate degree obtained from a regionally accredited institution in the same
or in a related area are not required to take the standardized test unless it is required by the program.
b. Each doctoral program may determine other requirements for admission (e.g., letters of recommendation, a resume or a curriculum vita, a written essay, an interview) consistent with their mission and purpose. Any additional admissions requirements so imposed by doctoral programs must be approved by the Dean of the Graduate School and published annually in the Graduate Catalog and on the website area of the Graduate School for the program; further, such requirements shall be reviewed and updated annually.
c. The submitted materials must be used in the context of a holistic credential review process annually.
d. These requirements shall not include preferences in the admissions process for applicants on the basis of any category protected by law.
(5) The University may grant a limited number of exceptions to those applicants who do not meet the basic admission requirements. All applicants requesting an exception must submit GRE, GMAT, or MAT scores, as appropriate, prior to making the request. Students granted an exception will be placed in a provisional admission status for the graduate degree program that they wish to enter. Continuation as a graduate student will depend upon successful completion of provisional admission requirements and any subsequent work.
(6) Applicants from countries where the official language is other than English must achieve the minimum required test scores on the TOEFL or University of Cambridge IELTS as set by the University of North Florida.
(7) The following are required of all applicants:
a. Application for admission;
b. Non-refundable application fee in the amount set forth by the university;
c. Transcripts from each college attended, whether or not credits were earned;
d. Standardized Test Scores - only if required by the individual graduate program.
(8) Admission to graduate study is granted on an individual basis with a review of the entire academic record of the applicant, including quality of past performance, standardized test scores (if required), appropriateness of work taken, and suitable professional experience. To ensure that all pertinent application materials are received in time, applications for admission must be received by the published deadlines of the university and of the program to which the application is being made.
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## Graduate Certificate Programs

Credit bearing, graduate certificate programs are comprised of related courses that constitute a coherent body of study within a discipline. These programs must be approved through the university and faculty governance processes. Furthermore, these programs must establish student-learning outcomes and assess the extent to which students achieve these outcomes. This is done via the Graduate Academic Learning Compact (GALC). Additional information about the assessment of learning outcomes can be found in the GALC policy. GALC must be developed for all graduate certificate programs.

The number of graduate credits within a graduate certificate program cannot be less than 9 or more than one-half of the credits necessary for a related master's degree. Certificate programs approved prior to the implementation of this policy are exempt from these credit limitations.

Student pursuing a graduate certificate will be required to meet the same academic requirements as those defined for degree-seeking students to remain in "good standing."

All graduate certificate students must meet all prerequisites for courses in which they wish to enroll.

## Application of Credits towards Degree programs

When concurrently enrolled in a graduate degree program, and with the approval of the sponsoring college, students can apply required coursework to both the graduate certificate program and, if applicable, their chosen graduate degree program. Students cannot return for a retroactive certificate award following graduation. Students who have graduated from a degree program and wish to return to pursue a graduate certificate will need to apply to the Graduate School, and the specific certificate program, and pay a new application fee.

If a student later returns to UNF to earn a graduate degree, up to 12 hours of UNF credit earned as a graduate certificate student may be applied to satisfy graduate degree requirements. Any application of such credit must be approved by the graduate program and must be appropriate to the program. It should be noted that not all programs allow credit earned as part of a graduate certificate to be applied towards a similar graduate degree.

## Completion of program requirements

Students are subject to the individual requirements of the graduate certificate program and will need to complete at least fifty percent of the required coursework in residence at the university (e.g., face-to-face, distance learning). Successful completion of the graduate certificate program will be noted on the student's official transcript separately from his or her degree program.

The graduate certificate is not viewed as a guaranteed means of entry into a graduate degree program.

## Admissions to Graduate Certificate Programs

Currently enrolled UNF students who wish to pursue a graduate certificate program are required to apply through the graduate school and be accepted to the desired program in accordance with program-specific admissions criteria.

## No application fee is required.

1. All students applying for graduate level certificate programs will submit an application to The Graduate School.
2. The Graduate School will refer the application to the appropriate department for an admission decision.
3. Each program will develop its own admission criteria for certificate programs.
4. Acceptance to the graduate certificate program is dependent on student eligibility and, if required, departmental approval.

## Certificate and Transcripts

Once the program coursework is satisfied the student may be eligible to receive a document acknowledging completion that is separate from a diploma conferral. Printing and conferring all completion documents from university certificate programs will be the sole responsibility of the Registrar and the Office of Enrollment Services Processing. All materials required to print and package the completion documents will also be housed within the Enrollment Services Processing Office.


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## Brooks College of Health Graduate Admission \& Degree Requirements

## School of Nursing

- Primary Care Nurse Practitioner
- Clinical Nurse Specialist
- Nurse Anesthetist
- Family Nurse Practitioner Certificate Program
- Doctor of Nursing Practice


## Department of Public Health

- Master of Health Administration
- Master of Public Health
- Master of Science in Health (Specialization in Geriatric Management)
- Clinical Mental Health Program


## Department of Clinical and Applied Movement Sciences

- Master of Science in Health (Specialization in Exercise Science and Chronic Disease)
- Doctor of Physical Therapy


## Department of Nutrition

- Master of Science in Nutrition and Dietetics


## School of Nursing

## Primary Care Nurse Practitioner

The purpose of the MSN program is to prepare primary care nurse practitioners to become skilled in meeting health care needs of individuals and families across the life span. Graduates of the program are eligible to take the family nurse practitioner certification examinations and to apply for licensure as Advanced Registered Nurse Practitioners by the Florida Board of Nursing.

## Admission Requirements

Applicants to the M.S.N. Primary Care Nurse Practitioner program must meet general University requirements for admission to graduate studies. In order to be considered for the Nurse Practitioner

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track, the interested applicant must meet these additional requirements:

- Bachelor of Science in Nursing from a regionally accredited program, based on AACN's Essentials of Baccalaureate Education
- Two years experience as a Registered Nurse in a clinical setting (resume 1-2 pages in length that includes professional work experience with a brief explanation of each position's responsibilities)
- An official, competitive score on the GRE taken during the last five years. In the prior version a score of 500 or higher on the verbal and quantitative sections of the GRE. In the new version of the GRE a minimum score of 153 in the verbal section and 144 in the quantitative section. A minimum of a score of 3 out of 6 on the essay OR a minimum or MAT score of 410 within the last five years
- Minimum GPA of 3.0 on a 4.0 scale from undergraduate nursing major (last 60+ hours)
- Written statement of academic and professional goals (typewritten in no smaller than 12 point font or equivalent with 1" margins [all sides], not to exceed 3 pages)
- Current Licensure as a Registered Nurse in the state of Florida (copy of actual R.N. license)
- Successful completion of Health Assessment, Statistics, and Research Courses within the past 10 years
- Malpractice insurance (photocopy of policy front page, which includes dates and amount of coverage; required only upon admission)
- Clinical references and interview may be requested of the applicant
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## Clinical Nurse Specialist

The purpose of the M.S.N. Clinical Nurse Specialist (C.N.S.) track is to prepare nurses to develop a concentrated area of clinical knowledge and to teach in nursing and health profession programs, health care institutions and agencies, and in the community. The program combines courses from the School of Nursing with some from the College of Education and Human Services to provide a solid foundation in teaching and learning.

## Admission Requirements

Applicants to the M.S.N. Clinical Nurse Specialist program must meet general University requirements for admission to graduate studies. In order to be considered for the Clinical Nurse Specialist track, the interested applicant must meet these additional requirements:

- Bachelor of Science in Nursing from a regionally accredited program, based on AACN's Essentials of Baccalaureate Education
- Two years experience as a Registered Nurse in a clinical setting (resume 1-2 pages in length that includes professional work experience with a brief explanation of each position's responsibilities)
- An official, competitive score on the GRE taken during the last five years. In the prior version a score of 500 or higher on the verbal and quantitative sections of the GRE. In the new version of the GRE a minimum score of 153 in the verbal section and 144 in the quantitative section. A minimum of a score of 3 out of 6 on the essay within the last five years
- Minimum GPA of 3.0 on a 4.0 scale from undergraduate nursing major (last 60+ hours)
- Written statement of academic and professional goals (typewritten in no smaller than 12pt font or equivalent with 1" margins [all sides], not to exceed 3 pages)
- Current Licensure as a Registered Nurse in the state of Florida (copy of actual R.N. license)
- Successful completion of Health Assessment, Statistics, and Research Courses within the past 10 years

Clinical references and interview may be requested of the applicant

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## Nurse Anesthetist

Nurse Anesthetist is a clinical specialty track within the School of Nursing. The nurse anesthetist curriculum is an extremely rigorous academic and clinical undertaking. It consists of a seven semester continuous program of full-time graduate study. Graduates are eligible to take the National Certification Examination to become a Certified Registered Nurse Anesthetist (C.R.N.A.) as well as
to obtain the Advanced Registered Nurse Practitioner (in nurse anesthesia) credential from the Florida Board of Nursing.

## Admission Requirements

This is a limited and competitive admissions program, and it is expected that the number of applicants will exceed the available positions. Application materials will be reviewed by the admissions committee, and those selected for interview will be invited. Applicants to the M.S.N. Nurse Anesthetist program must meet general University requirements for admission to graduate studies. In order to be considered for the M.S.N. Nurse Anesthetist program, the interested applicant must meet these additional requirements:

- Bachelor of Science in Nursing from a regionally accredited program, based on AACN's Essentials of Baccalaureate Education (or other appropriate discipline from an accredited institution).
- A minimum of one year experience as a Registered Nurse in a critical care setting.
- Admission to the graduate nursing program.
- An official, competitive score on the GRE taken during the last five years. In the prior version a score of 500 or higher on the verbal and quantitative sections of the GRE. In the new version of the GRE a minimum score of 153 in the verbal section and 144 in the quantitative section. A minimum of a score of 3 out of 6 on the essay OR a minimum within the last five years
- Written statement of academic and professional goals.
- Minimum GPA of 3.0 on 4.0 scale from undergraduate nursing major (last 60+ hours).
- Current licensure as a Registered Nurse in Florida.
- Successful completion of Health Assessment, Statistics, and Research courses.
- References and interview will be required.

Note: R.N.s who have a baccalaureate degree in a discipline other than nursing may also be eligible for admission through the M.S.N. bridge option. For these students the bridge courses are integrated into the Nurse Anesthetist Program Curriculum, thus not lengthening the program of study. As an alternative, bridge courses may be taken prior to admission to the program and prior to beginning Nurse Anesthetist courses.
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## The Family Nurse Practitioner Certificate Program

This program is for individuals who currently have a master's degree in nursing and who want to obtain a certificate that will allow them to take the national certification examinations as a family nurse practitioner in order to practice in that capacity.

## Admission Requirements

- Master's degree in nursing from a regionally accredited program
- Minimum GPA of 3.5 on a 4.0 scale in the master's program
- Current licensure as a Registered Nurse in the state of Florida (copy of actual R.N. license)
- Two years employment as a Registered Nurse in a clinical setting within the last 4 years (resume 1-2 pages in length that includes professional work experience with a brief explanation of each position's responsibilities)
- Written statement of academic and professional goals (typewritten in no smaller than 12 pt font or equivalent with 1 " margins [all sides], not to exceed 3 pages)
- Successful completion of a health assessment course within the past 10 years

Clinical references and interview may be required.

## Doctor of Nursing Practice

The Doctor of Nursing Practice (D.N.P.) is a post-professional degree that prepares nurses at the highest level of practice. The 48 -credit program includes a clinical residency as well as a nursing doctoral project. The purpose of the program is to enhance the preparation of advanced practice nurses by giving them the cutting-edge skills and education necessary to engage in an evidencebased practice while conducting research related to their practice. The program has specific
admission requirements above and beyond the ones currently required by the university.

## Admission Requirements

The program has admission requirements above and beyond the ones currently required by the University. Admission requirements for the DNP program include:

- Masters degree in nursing from a regionally accredited program and certification in area of clinical practice (N.P., C.R.N.A., Nursing Administration, or C.N.S.).
- Minimum graduate GPA of 3.30 .
- An official, competitive score on the GRE taken during the last five years. In the prior version a score of 500 or higher on the verbal and quantitative sections of the GRE. In the new version of the GRE a minimum score of 153 in the verbal section and 144 in the quantitative section. A minimum of a score of 3 out of 6 on the essay OR a minimum or MAT score of 410 within the last five years
- Negative background check and negative drug screening (required only upon admission).
- Active licensure as a registered nurse or advanced practice registered nurse in the jurisdiction in which one practices.


## A portfolio to include seven items:

- Current resume or CV
- Statement describing educational preparation
- Description of past clinical experiences, including role and function
- Identification of scholarly endeavors
- Description of professional and community activities
- Statement identifying a clinical question arising from one's current nursing practice environment with regard to something needing change or improvement
- Current nursing license and certification proof
- Three (3) letters of reference, addressing academic ability and practical skills


## Department of Public Health

## Master of Health Administration

UNF's Health Administration Program is designed to prepare students for careers in management and leadership in health services organizations. This 54 -credit-hour program includes a combination of class room instruction and practical, real world experience; providing students with knowledge and skills essential for entry-level management roles or for advancement in established health care careers.

## Admission Criteria

All applicants must have a bachelor's degree from an accredited college or university. No specific undergraduate major is required. However, applicants must have met prerequisite course requirements. Prerequisite coursework includes: Principles of Financial Accounting and Statistics. Additionally, students are expected to be proficient in word processing and spreadsheet applications.

## Each applicant must submit the following:

- Personal Statement: This is a brief essay (2-3 pages) outlining one's reasons for pursuing graduate education in health administration, career objectives, and any other information he or she would want the Admission Committee to know.
- Resume: Education and work background; honors; memberships in professional, school, and service organizations; etc.
- Letters of recommendation: Two letters of recommendation using the MHA Recommendation for Graduate Study form.
- Undergraduate Transcripts: An official transcript, indicating graduation from a regionally accredited college or university in this country or a recognized university abroad, is required. Applicants must have a minimum of a 3.0 grade point average in all undergraduate upper
division work.
- Graduate Record Examination (GRE) score of at least 1000 or a minimum verbal score of 146 and a minimum quantitative score of 148 on the new GRE point scale; or a minimum 20 verbal and 22 Quantitative score on the Graduate Management Admission Test (GMAT) and a desired minimum total GMAT score of 500 (GRE / GMAT scores may be waived for applicants holding a professional doctoral degree (e.g., M.D., J.D., D.D.S) from a U.S. accredited school or for applicants with more than ten years of increasingly responsible positions in the healthcare industry).

Applicants from countries where English is not the official language, or for an applicant whose bachelor's degree is not from an accredited U.S. institution: Students must meet University requirements for scores on the Test of English as a Foreign Language (TOEFL). A minimum TOEFL score of 500 paper-based ( 61 internet-based) is required.

- Applicants from countries where English is not the official language, or for an applicant whose bachelor's degree is not from an accredited U.S. institution: Students must meet University requirements for scores on the Test of English as a Foreign Language (TOEFL). A minimum TOEFL score of 500 paper-based ( 61 internet-based) is required.
- Admission decisions are made based on evaluation of all admission materials. Applicants are judged primarily by a critical evaluation of their demonstrated academic ability and potential. Consideration is given to health care experience, motivation, and leadership potential.


## Master of Public Health Program

The MPH Program is the most widely recognized professional credential for leadership positions in public health. This degree is appropriate for those who wish to pursue careers in developing, planning, managing, or evaluating health promotion and disease prevention programs, or in conducting public health related research. The UNF MPH Program prepares students with a broad understanding of the core areas of public health combined with a focus on competencies specific to the health promotion and education concentration area. MPH graduates will be able to integrate and apply their knowledge to address public health problems, and will possess skills and competencies necessary for public health practice in a wide range of public and private institutions. Graduates are typically employed in governmental or non-profit health agencies, health care facilities, work site wellness programs or school settings.

The UNF MPH Program is nationally accredited by the Council on Education for Public Health (CEPH). Graduates are eligible to become Certified in Public Health (CPH) by passing the CPH exam offered by the National Board of Public Health Examiners (NBPHE). This certification is only available to graduates of CEPH accredited programs. Graduates are also eligible to become a Certified Health Education Specialist (CHES) by passing the exam offered by the National Commission for Health Education Credentialing (NCHEC).

## Admissions Process

MPH Program admissions are handled by the UNF Graduate School
(http://www.unf.edu/admissions/applynow/). The UNF MPH Program only considers applications for new students for the fall term of each year. The following information must be submitted to the UNF Graduate School by the published deadline.

## Admission Criteria

Minimum admissions requirements for the M.P.H. Program are listed below. Each student shall:

- A baccalaureate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution with a GPA of 3.0 or higher in all work attempted in the last 60 credit hours of undergraduate study GPA of 3.0 on 4.0 scale or higher on all work attempted as an upper division undergraduate student (normally the last 60 hours) and any graduate level work or degree.
- Official transcripts from all attended institutions.
- GRE test scores: Prior to July 1, 2011: 1000 combined verbal and quantitative scores with no lower than 400 on either section; After July 1, 2011:153 verbal and 144 quantitative.
- Letter of intent describing:
- reasons for seeking an MPH degree
- short and long-term goals
- Resume
- Two letters of recommendations

Applicants not meeting the GRE or 3.0 minimum requirement may contact the Master of Public Health Program Director (Dr. Moore, mmoore@unf.edu) for additional admission criteria options.

NOTE: Students should be aware that admission into any graduate program is granted on a competitive basis. Students meeting minimum requirements may be denied admission based on such factors as program capacity or academic discretion. Likewise, students may be considered for admission as an exception if stated admissions criteria are not met.
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## Master of Science in Health (Specialization in Aging Services Management)

The mission of the University of North Florida's Aging Services Management Program is to prepare graduates for entry and mid-level administrative and management positions in organizations providing health and social services to the aging population. This program combines classroom theory, scholarly research, and community-based activity to establish a foundation for lifelong learning while contributing to the well-being of Northeast Florida's senior population.

## Admission Criteria

All applicants must have a bachelor's degree from a regionally accredited college or university. No specific undergraduate major is required. One prerequisite course is required: Principles of Financial Accounting (ACG2021). Each applicant must submit the following:

- Personal Statement: This is a brief essay (2-3 pages) outlining one's reasons for pursuing graduate education in Aging Services Management.
- Resume: Education and work background; honors; memberships in professional, school, and service organizations; etc.
- Undergraduate Transcripts: An official transcript, indicating graduation from a regionally accredited college or university in this country or a recognized university abroad, is required.
- GPA and GRE Scores: Applicants must have a minimum of a 3.0 grade point average in all undergraduate upper division work, and a minimum of 146 on the verbal and 147 on the quantitative sections of the current GRE. Combined verbal and quantitative scores from GRE's taken prior to fall 2011 must be a minimum of 850 .
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## Clinical Mental Health Counseling Program

The Clinical Mental Health Counseling degree program is designed to provide comprehensive training for the preparation of professional clinical counselors in a variety of mental health settings. Curricular experiences encompass opportunities to explore the life-span, social, and cultural foundations of behavior; practice psychotherapeutic and diagnostic skills; and complete extensive field experiences in order to apply knowledge and skills in professional settings. Upon successful completion of the program, graduates have received the necessary course work to apply for licensure as a Licensed Mental Health Counselor (LMHC) in the state of Florida.

## Admission Criteria

All applicants must have a bachelor's degree from a regionally accredited college or university. No specific undergraduate major is required.
Each applicant must submit the following:

- Graduate student application (available at www.unf.edu/graduatestudies) and appropriate application fee.
- Official transcripts from all institutions attended. A GPA of 3.0 on 4.0 scale or higher on all work attempted as an upper division undergraduate student (normally the last 60 hours) and
any graduate level work or degree is required. Admission into the MHC program is competitive and often exceeds the minimum GPA requirement.
- Applicants are required to take the GRE (Graduate Record Examination); a competitive GRE score is preferable. ETS conversion scores are used. See ETS website for the new GRE Concordance Table for verbal and quantitative conversion scores. Recent applicants had average GRE scores of 1066.
- Letter of Intent: Your responses should be typewritten, double spaced,12-point font, and should not exceed 5 pages: (1) What motivates you to pursue your degree in mental health counseling? (2) Describe your work and/or volunteer experiences in a helping role (3) What are your short-term and long-term educational, research, and professional goals?
- Resume: Your professional resume should summarize your education, employment, and volunteer work history related to mental health counseling, research activities, and any counseling-related presentations, or posters, and presentations you have made at professional conferences.
- Three letters of reference are required. It is preferable to have at least one letter from a current or previous professor. Other letters can be from counseling professionals, employers, supervisors, or an individual who can recommend your suitability for graduate study and for the profession of clinical mental health counseling.
**An interview is also required. On-site interviews are preferred; however, telephone interviews may be conducted for applicants living outside of the greater Jacksonville area.

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## Department of Clinical and Applied Movement Sciences

## Masters of Science in Health: Exercise Science and Chronic Disease

The MSH in ESCD is a graduate that degree integrates advanced training in exercise science and epidemiology. The field of Exercise Epidemiology examines the relationship(s) between physical activity, sedentary behavior and fitness level with chronic diseases ubiquitous in today's society. Students pursuing the MSH in ESCD are required to take seven exercise science and epidemiology core courses for a total of 24 credit hours. The remaining credits will be satisfied with nine to 10 credits of elective course work and either a six credit internship/project or thesis. Students must declare a thesis or non-thesis option upon acceptance into the program. The MSH in ESCD requires the completion of 38 or 39 graduate credit hours dependent upon the student's elective focus and can be completed in two years.

## Admission Criteria

UNF admits 12-15 students into the program each fall semester. To be considered for admission, students must apply to the program by July 1st (postmark) of the year for which they wish to be admitted. Prior to enrolling in MSH courses, students must have the following credentials:

- Baccalaureate degree from an accredited college or university recognized by the University of North Florida. The MSH program does not require a specific undergraduate major. Applicants who apply while still enrolled in an undergraduate degree program may be admitted contingent upon successful completion of the bachelors' degree prior to enrolling in graduate courses.
- Completion of all prerequisite courses. Applicants who apply while still enrolled in prerequisite courses may be admitted contingent upon successful completion of all courses.
- Cumulative 3.0 GPA or higher in the last 60 semester hours taken during the last two years of undergraduate study. Students with a GPA below 3.0 may be admitted if they meet a higher GRE criterion.
- The Graduate Record Examination (GRE) taken within the past five years:
- If a GPA from the last two years of undergraduate study ( $\mathbf{6 0}$ semester hours) is above 3.0, a minimum combined score of 290 on the new GRE (146 or higher on the verbal and 144 or higher on the quantitative) or a minimum combined score of 900 on the previous GRE ( 400 or higher on the verbal and 500 or higher on the quantitative) is required.
- If a GPA from the last two years of undergraduate study ( 60 semester hours) is below 3.0, a minimum combined score of 295 on the new GRE (148 or higher on the
verbal and 147 or higher on the quantitative) or a minimum combined score of 990 on the previous GRE ( 420 or higher on the verbal and 570 or higher on the quantitative) is required.
Interview with MSH faculty. A phone interview is available for applicants with extenuating circumstances. Applicants may take HSC4612 (offered in fall semester only) and HSC3500 (offered every semester) at UNF as a post-baccalaureate student. PET4550 (offered in spring semester only) is open to post-baccalaureate students on space available basis. Contact Brooks College of Health advising office at (904) 620-2812 regarding the post-baccalaureate application process. The three upper level courses are also offered at other Florida State Universities.
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## Doctor of Physical Therapy

The Doctor of Physical Therapy (D.P.T.) is a fully accredited, post-baccalaureate entry-level degree that prepares the graduate to practice physical therapy. The 102-hour program is designed to give students in-depth knowledge of basic and clinical sciences relevant to physical therapy. Full-time internships in the second and third years (totaling 34 weeks) allow students to apply this knowledge as they engage in reflective practice through sound clinical decision making under the direction of expert clinicians. Graduates are eligible to take the physical therapy licensure examination following successful completion of the program. Students applying to the physical therapy program must have earned a baccalaureate degree prior to admission. While the student can select an undergraduate major of personal interest, specific course prerequisites are required of all students. Information regarding the physical therapy program and deadlines for admission are available from the Department of Clinical \& Applied Movement Sciences.

## Admission Requirements

- A baccalaureate degree from a regionally accredited college or university;
- 3.0 GPA or higher in all undergraduate coursework attempted, plus science prerequisite GPA and non-science prerequisite GPAs each of no less than 3.0;
- Completion of all science prerequisite coursework within 7 years prior to application, to include: 8 semester hours Biology 1 \& Biology 2 with labs, 8 semester hours A\& P 1 \& 2 with labs, 8 semester hours Chemistry $1 \& 2$ with labs, 8 semester hours Algebra-based Physics $1 \& 2$ with labs, and 3 semester hours of Statistics;
- Five (5) of the eight (8) courses comprising the science GPA must be completed at the time of deadline;
- All prerequisites must be completed prior to entering the program, if admitted.
- Applicants who apply while still enrolled in prerequisite courses may be admitted contingent upon successful completion of all courses with a grade of $\mathbf{B}$ or higher in each course.
- GRE revised General Test scores, including the analytical writing portion, are required. To be competitive, a verbal score of at least 149 and a quantitative score of 146 are recommend. In addition, the analytical writing score must be at least 3.5 to be considered for admission.
- It is recommended that 80 hours of observation under the direct supervision of physical therapists in a variety of settings be completed before application if selected for interview. However, letters of verification are not required. Do not submit these to UNF as you apply; instead, you will discuss these in person at the interview if you are selected for one.
- Three (3) letters of recommendation are required and must be supplied on organizational letterhead to the UNF Graduate School. At least one (1) must be from a course instructor who can speak to the candidate's potential success in graduate level coursework. At least one (1) must be from a licensed physical therapist who can speak to the candidate's professional behavior. The third letter may be from either of the first two categories. These will not be accepted by the program through PTCAS.
- Ability to perform, with or without reasonable accommodations, each of the physical therapy essential functions in order to fully participate in the program and successfully complete the degree requirements.
- A personal interview will be required for the top competitive candidates. Competitiveness is expected to vary from year-to-year.
- Students apply online through the www.unf.edu website. All materials needed for admission must be sent to the Graduate School. If you have any questions about applying, please contact the Graduate School at 904-620-1360.


## Admission Criteria

Students apply online through the www.unf.edu website, as well as with PTCAS at www.ptcas.org. Please consult the official program webpages through www.unf.edu/brooks/movement_science for additional details about applying. If you have any questions about applying, please contact ptadmissions@unf.edu.

- Complete the UNF online application for graduate admission;
- Pay the UNF $\$ 30$ application fee

Submit hardcopy, official, sealed transcripts from all institutions at which you were ever enrolled (this includes AP, CLEP, IB, and military transcripts) to the Graduate School at: University of North Florida
Attn: Graduate School
1 UNF Drive
Jacksonville FL 32224

- Submit hardcopy, sealed, official GRE scores to the Graduate School (institution code is 5490); scores are only kept by ETS for a 5-year period and we now required the revised version of the exam.
- Complete the Physical Therapist Centralized Application Service (PTCAS) application and application fee at www.ptcas.org. Submit any observation hours and recommendation forms, as well as GRE scores and all official transcripts (separate from the ones submitted to the Graduate School) directly to PTCAS. Allow 4-6 weeks for processing.

Note: The receipt of materials submitted to the UNF Graduate School may be confirmed online in the myWings student portal or with the Graduate School at (904) 620-1360. Materials submitted to PTCAS may be confirmed online at www.ptcas.org. Do not submit any materials directly to the Physical Therapy program unless specifically directed to do so.

## Department of Nutrition \& Dietetics

## Master of Science in Nutrition and Dietetics

This degree is designed for those students who wish to emphasize the application of advanced nutrition knowledge in clinical or community based health programs. Fifteen students are admitted each fall to this 4 -semester, full-time program. Students must complete both the Master's Degree and Internship experience in order to receive a verification statement and sit for the National Registration Examination. There are three options to this 43-semester hour program: Thesis option, Non-Thesis option, or Clinical Practicum (Internship) option. The Dietetic Internship at the University of North Florida has been granted Accreditation by:

The Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics Association (formerly known as the American Dietetic Association): 120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, Phone: 312-899-0040 ext. 5400.

- A baccalaureate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution with a GPA of 3.0 or higher in all work attempted in the last 60 credit hours of undergraduate study.
- Official transcripts from all attended institutions
- GRE scores: Prior to July 1, 2011: combined score of 1000; After July 1, 2011: 153 verbal, 144 quantitative
- Letter of intent:
-2 pages in length -double-spaced with 1" margins
-indicating whether or not you are a registered dietitian (required)
-professional experiences and goals
-how UNF's master's program is aligned with your goals



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## Brooks College of Health Graduate Degrees

- Community Health - Health Promotion/Health Ed, MPH
- Health Administration, MHA
- Health Science - Aging Services Management, MSH
- Health Science- Exercise Science and Chronic Disease
- Health Science - Orthopaedic Physical Therapy, MSH
- Clinical Mental Health Counseling, MS
- Nursing - Clinical Nurse Spec-FT, MSN
- Nursing - Clinical Nurse Spec-PT, MSN
- Nursing - Nurse Anesthetist, MSN
- Nursing - Nurse Practitioner (Family), MSN
- Nursing, DNP
- Nutrition \& Dietetics, MS
- Physical Therapy, DPT


## Graduate Programs

The demand for highly educated men and women to fill a diversity of health related professional roles is rapidly increasing. The faculty of the Brooks College of Health is committed to meeting this need through high quality educational programs, research, and service that contribute to the knowledge base from which the solutions to contemporary health problems must be drawn. Of foremost importance in this endeavor is the educational preparation of responsible health professionals who will respond to the needs of the region served by the University of North Florida.

The College provides an administrative structure for all health related programs at the University within four units: the Department of Public Health, the Department of Clinical and Applied Movement Sciences the Department of Nutrition and Dietetics, and the School of Nursing.
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## Doctoral Programs

The Brooks College of Health offers two doctoral degree programs, a Doctor of Nursing Practice (D.N.P.) and a Doctor of Physical Therapy (D.P.T.). Both terminal degrees are clinical doctorates with an emphasis on evidence-based practice.


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## Brooks College of Health Graduate Certificates

## Aging Services Certificate

The mission of the University of North Florida's Aging Services Certificate program is to provide graduate level coursework which will advance knowledge and skills for persons working in the aging services area as well as those interested in entering the field. The certificate program includes current, relevant study of aging theory, policy, research, and organizations that impact delivery of health and social services to an aging, multicultural population.

## Admission Requirements

All applicants must have a bachelors degree from a regionally accredited college of university. No specific undergraduate major is required. Applicants should apply online for the Aging Services Certificate.

- Personal Statement: This is a brief essay (2-3 pages) outlining one's reasons for pursuing admission to the Aging Services Certificate program.
- Resume: Education and work background; honors; memberships in professional, school, and service organizations; etc.
- Undergraduate Transcripts: An official transcript, indicating graduation from a regionally accredited college or university in this country or a recognized university abroad, is required.


## Family Nurse Practitioner Certificate

This Family Nurse Practitioner Certificate program is for individuals who currently have a Master's in Nursing and want to obtain a certificate which will allow them to sit for the National Certification Examination as a Family Nurse Practitioner in order to practice in that capacity. In addition, individuals who are nationally certified as ANP, PNP, GNP, CNM and WHNP may apply for this certificate program. Past education and current advanced practice experience will be considered in determining program requirements.

Admission Requirements
-Masters degree in Nursing from a regionally accredited institution with a program accredited by either the CCNE or NLNAC.

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OTHER COLLEGE LINKS

Center for Global Health and Medical Diplomacy
-Minimum GPA of 3.5 on a 4.0 scale in the MSN degree program.
-Current licensure as a Registered Nurse in the state of Florida (copy of actual RN license)
-Two years employment as a registered nurse in a clinical setting within the last 4 years (resume 1-2 pages in length that includes professional work experience with a brief explanation of each position's responsibilities).
-Written statement of academic and professional goals (typewritten in no smaller than 12pt font or equivalent with 1 " margins (all sides), not to exceed 3 pages).
-Successful completion of a health assessment course within the past 5 years; any course older than that will be considered by the program coordinator on a case-by-case basis (inquiries regarding such should be directed to that contact and not to admission representatives).
-Clinical references and interview may be requested, but are not necessary unless specified by the program

## **Admission will be handled on a space-available basis. Seats are first provided to those seeking MSN admission for the Nurse Practitioner track.

## Public Health Certificate

The Graduate Certificate in Public Health consists of five required courses. The Certificate program prepares participants with a broad understanding of the core areas of public health and skills necessary for public health practice in a wide range of public and private institutions. All courses for the certificate must be completed at the University of North Florida.

## Admissions Requirements

-A baccalaureate degree from a regionally accredited US institution or its equivalent from a foreign institution with a GPA of 3.0 or higher in all work attempted in the last 60 credit hours of undergraduate study.
-Students enrolled in any UNF graduate program may earn the Graduate Certificate in Public Health, but students are not required to be admitted to a UNF graduate program. Acceptance into the Certificate program is dependent on student eligibility and space in the program. Students who have graduated from the Master of Public Health (MPH) program or are enrolled in the MPH Program are not eligible to earn the Certificate. Applications are accepted for fall term only.

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## Major: Athletic Training <br> Degree: BS in Athletic Training

```
Prerequisites (25 credits)
    Must be completed with a grade of "C" or higher
            BSC1010C General Biology I (4 Credits)
            BSCX010/X010L are acceptable substitutes for BSC1010C
            PHY2053/L Physics I with Lab (4 credits)
            Precalculus (MAC 1147) (4 credits) or College Algebra (MAC 1105) (3 credits) and
            Trigonometry (MAC 1114) (2 credits) are prerequisites for Algebra-based Physics
            (PHY 2053/2053L) (4 credits).
            PHYX053c, PHYX048c, and PHYX048/X048L are acceptable substitutes for
            PHY2053/2053L.
                    BSC2085C Human Anatomy and Physiology I (4 Credits)
            BSCX093/X093L, PETX322C, ZOOX733C, APKX100C, and BSCX085/X085L are
            acceptable substitutes for BSC2085C. To take BSC2085c at UNF, the Biology
            department requires a grade of B or higher in BSC1010c.
BSC2086C Human Anatomy & Physiology II (4 Credits)
            BSCX094/X094L, PETX323C, PCBX703C, APKX105C BSCX086/X086L are
            acceptable substitutes for BSC2086C. To take BSC2086c at UNF, the Biology
            department requires a grade of B or higher in BSC2085c.
                PSY2012 Introduction to Psychology (3 Credits)
            PSYX012 is an acceptable substitute for PSY2012.
            HUN2201 Basic Prin Human Nutrition (3 Credits)
            HUNX941 and HUNX201 are acceptable substitutes for HUN2201.
STA2023 (GM) Elem Statistics-Business (3 Credits)
            STAX122, STAX201 or STAX023 is an acceptable substitute for STA2023.
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Requisites

HSC 2400 is not required, but strongly recommended prior to admission into Athletic Training Program. Admitted AT students must, however, hold current certification in CPR, First Aid, and bloodborne pathogens. Check the program website at www.unf.edu/brooks/movement_science/admission_bsat.aspx to be sure the CPR/AED course in the HSC class is accepted.

HSC2400 First Aid Emergency Care (2 Credits)

Major Requirements (60 credits)
Must be completed with a grade of " C " or higher.
PET3603C Introduction Sports Medicine (3 Credits)
PET3620 Introduction Athletic Injuries (3 Credits)
PET3312C Biomechanics (3 Credits)
HSC4612 Exercise Physio For Health Sci (3 Credits)
PET3621C Orthopedic Taping and Bracing (3 Credits)
PET3670 Athletic Training Clinical I (3 Credits)
PET4632C Therapeutic Modalities (3 Credits)
PET4633C Orthopedic Injury Assessment I (3 Credits)
HUN4414 Nutrition Phys Act and Health (3 Credits)
PET3321 Gross Anatomy Athletic Trainer (3 Credits)
PET3671 Athletic Training Clinical II (3 Credits)
PET3624C Emergency Mgmt Athletic Trauma (3 Credits)
PET4634C Orthopedic Injury Assess II (3 Credits)
PET3660 Athletic Training Admin (3 Credits)
PET4630C Therapeutic Exercise (3 Credits)

PET4940 Clinical Practice in AT I (3 Credits)
PET4623 Rehabilitation Athletic Injury (3 Credits)
PET4933 Seminar in Athletic Training (3 Credits)
PET4947C Clinical Practice in AT II (3 Credits)
PET4625 Research Sports Med (3 Credits)

## Table of Contents

## Major: Health Science <br> Concentration: Exercise Science <br> Degree: Bachelor of Science in Health

```
Prerequisites (27 credits)
    Minimum grades of B in MAC1105, CHM2045c, BSC2085c and BSC2086c are required for
    admission. Remaining prerequisites must be completed with a cumulative GPA of 3.0 or higher.
    For additional admission requirements, visit www.unf.edu/brooks.
        BSC2085C Human Anatomy and Physiology I (4 Credits)
        BSCX085/X085L, PETX322/X322L, and APKX100C are acceptable substitutes for
        BSC2085c.
BSC2086C Human Anatomy & Physiology II (4 Credits)
        BSCX086/X086L, PETX323/X323L, and APKX105/X105L are acceptable substitutes
        for BSC2086c.
MAC1105 (GM) College Algebra (3 Credits)
        MACX105, MACX140, MACX147 and MACX311 are acceptable substitutes for
        MAC1105. P (passing) grade from Credit by exam (AP, CLEP) is acceptable for the
        minimum B grade requirement. Please see your advisor to reflect the approval on
        degree evaluation.
CHEMISTRY General Chemistry I with Lab
        CHMX045/X045L and CHMX030 are acceptable substitutes for General Chemistry I
        with lab requirement.
STA2023 (GM) Elem Statistics-Business (3 Credits)
        STAX023, STAX030 and MACX147 are acceptable substitutes for STA2023.
PSY2012 Introduction to Psychology (3 Credits)
HUN2201 Basic Prin Human Nutrition (3 Credits)
        HUNX201, HUNX577 and HSCX100 are acceptable substitutes for HUN2201.
SPC2608 Fundamentals of Speech (3 Credits)
        SPCX600 and AEEX030c are acceptable substitutes for SPC2608.
```

Major Requirements (51 credits)

All Major, Elective, and Foreign Language requirements must be completed prior to internship. Any exceptions must have Program Director's approval. A minimum 2.0 UNF GPA is required prior to internship. Refer to course descriptions for prerequisite requirements.

- The Exercise Science program sequecing schedule is available online at http://www.unf.edu/brooks/ movement_science/exercise_science.aspx

HSC4612 Exercise Physio For Health Sci (3 Credits) Recommended prerequisites: BSC2085c \& BSC2086c
HSC4615L Lab Meth Ex Phys HIth Sci (3 Credits) Co-requisite: HSC4612

PET3768C Exercise Instruction (3 Credits)
PET4625 Research Sports Med (3 Credits)
PET4627 Human Injury Prevention (3 Credits)
PET4550 Physical Fitness Assessment (3 Credits)
Prerequisite: HSC4612
PET3325 Functional Anatomy/Kinesiology (3 Credits)
Prerequisites: BSC2085c \& BSC2086c
HSC3553 Pathophysiology (3 Credits)
PET3771C Business/Pract in Ex Phys (3 Credits)
PET3080 Physical Activity Epidemiology (3 Credits)
HUN4414 Nutrition Phys Act and Health (3 Credits)

## APK4120C Clinical Exercise Physiology (3 Credits)

Prerequisites: HSC4612, HSC4615L, \& PET3080
PEP4135 Princ Strength/Conditioning (3 Credits)
Prerequisites: HSC4612 \& PET3312c
APK3115C Practical Skills in S and C (3 Credits)
Prerequisites: HSC4612, PET3312c, PET3325, PET3768c
Co-requisite: PEP4135
PET4943 Pre Internship Ex Sci (3 Credits)

- Must be completed in the semester immediately preceeding PET4942 Internship.

PET4942 Internship in Exercise Science (6 Credits)

- Must be completed in the last academic semester of enrollment.

Free Electives (9 credits)
Major Electives must be completed with a grade of " C " or higher.

- If you are considering a Doctor of Physical Therapy (DPT), consider taking prerequisites required for the DPT program (http://www.unf.edu/brooks/athletic-physical/pt.html).
- Hours previously used to meet any program requirements can not be applied to this Elective area. Students must have a minimum of 120 total hours to graduate.


## Table of Contents

Major: Health Science<br>Concentration: Exercise Sc. \& Chronic Disease<br>Degree: Master of Science in Health

## Prerequisites

The requirements listed below are prerequisites for the Master of Science in Health (MSH)Health Science major with Exercise Science and Chronic Disease (ESCD). The course numbers listed below are ones offered at the University of North Florida. Any substitutions to these requirements are made at the time of evaluation for admission into the MSH.

- BSC2085c - Human Anatomy \& Physiology I with lab
- BSC2086c - Human Anatomy \& Physiology II with lab
- CHM2045/2045L - General Chemistry I with lab
- STA2014 - Elementary Statistics

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Core Requirements ( 23 credits)
APK6336 PA Epidemiology \& Evid Review (3 Credits)
APK6116C Exercise Phys \& Lab Techniques (4 Credits)
PHC6050 Public Health Biostats I (3 Credits)
APK6111 Advanced Ex Phys \& Metabolism (3 Credits)
APK6107C Cardiovas Ex Phys and ECG (4 Credits)
APK6057 Research Methods in PA (3 Credits)
HSC6003 Chronic Disease Epidemiology

Internships (6 credits)
Either a six credit internship, project, or thesis is required. Students must declare a thesis or nonthesis option upon acceptance into the program.

INTERN/PRO Internship/Project option

- APK6942 - Internship or Project in ESCD

THESIS Thesis option

- APK6972 - Thesis in ESCD


## Major Electives (9 credits)

Select Research focus or Advanced Fitness Professional focus
Students may select to take any combination of the major electives to meet the 38 -total credit hour program requirement. Other graduate level courses may be taken towards the major electives with approval of the MSH program director.

RESEARCH focus
Research focus

- HSC6509 - Nutrition Epidemiology
- EDA6930 - Grant Development and Project Design
- HSC6906 - Independent Study and Research
- APK6056 - Advanced Biostatistics in Epidemiology

ADV FIT focus
Advanced Fitness Professional focus

- NGR7154 - Advanced Bioscience
- HUN6522 - Advanced Public Health Nutrition
- HUN6123-Sociocultural Influences on Nutrition
- APK5332 - Pharmacology for Chronic Diseases


## Table of Contents

## Major: Physical Therapy <br> Degree: Doctor of Physical Therapy

## Prerequisites

The requirements listed below are prerequisites for the Doctor of Physical Therapy (DPT). The course numbers listed under each requirement are course numbers from the University of North Florida. Any substitutions to these requirements are made at the time of evaluation for admission into the DPT.

Science Prerequisite Courses:

- CHM 2045/2045L General Chemistry I with Lab
- CHM 2046/2046L General Chemistry II with Lab 8 semester hours of General Chemistry
- PHY 2053/2053L Algebra-based Physics I with Lab
- PHY 2054/2054L Algebra-based Physics II with Lab 8 semester hours of Algebra-Based Physics
- BSC 2085C Anatomy and Physiology I with Lab
- BSC 2086C Anatomy and Physiology II with Lab 8 semester hours of Anatomy and Physiology
- BSC 1010C General Biology I with Lab
- BSC1011C General Biology II with Lab 8 semester hours of General Biology

Non-Science Prerequisite Courses:

- PSY 2012 Introduction to Psychology 3 semester hours of Introduction to Psychology
- DEP 3054 Lifespan Development Psychology or CLP4143 Abnormal Psychology 3 semester hours of Additional Psychology
- STA 2014 Elementary Statistics 3 semester hours of Elementary Statistics
- HSC 3537 Medical Terminology

3 semester hours of Medical Terminology (optional, but encouraged)

1st Semester (14 credits)
PHT6110C Gross Anatomy for PT (6 Credits)
PHT5005 Professional Practice Issues (2 Credits)
PHT5257C Clinical Skills (3 Credits)
PHT6126C Kinesiology (3 Credits)

2nd Semester (15 credits)
PHT6153C Human Physiology (3 Credits)
PHT6267C Examination and Intervention (4 Credits)
PHT6161C Neurosci I: Clin Neuroanat/Phy (4 Credits)
PHT5806 Clinical Practicum (1 Credit)
PHT6606C Clinical Inquiry I (3 Credits)

## 3rd Semester (10 credits)

PHT6218C Theraputic Modalities (3 Credits)
PHT6354C Pharmacology (2 Credits)
PHT6809 Clinical Education Prep I (1 Credit)
PHT6819C Clinical Internship I (4 Credits)

4th Semester (14 credits)

PHT6191C Neurosci II:Mtr Ctrl and Lrn (3 Credits)
PHT6314C Neurology I: Path,Exam and Int (4 Credits)
PHT6734 PT Mngmt of the Integument (1 Credit)

5th Semester ( 15 credits)
PHT7385C Exercise Physio Cardio PT (4 Credits)
PHT7183C Ortho II:Spine and Occ Health (5 Credits)
PHT7315C Neurology II:Adv Exam and Inte (4 Credits)
PHT6607C Clinical Inquiry II (2 Credits)

6th Semester (8 credits)
PHT6823C Clinical Internship II (4 Credits)
PHT6824C Clinical Internship III (4 Credits)

7th Semester (16 credits)
Take PHT7617c - Clincial Inquiry III if selecting the research track.
PHT7551 Leadership in Physical Therapy (3 Credits)
PHT7009C Differential Diagnosis (3 Credits)
PHT7741C Spinal Cord Inj and Prosthetic (3 Credits)
PHT7141C Lifespan Geriatrics/Pediatrics (4 Credits)
PHT7617C Clinical Inquiry III (2 Credits)
PHT7937 Special Topics in PT (1-5 Credits)

8th Semester (10 credits)
PHT7825C Clinical Internship IV (5 Credits)
PHT7826C Clinical Internship V (5 Credits)

## Table of Contents

## Major: Nursing <br> Concentration: Nurse Practitioner (Family) <br> Degree: Master of Science in Nursing

Concentration Requirements (43 credits)

```
NGR5003C Health Assessment/Diagnostics (3 Credits)
NGR5172 Pharmacotherapeutics (3 Credits)
NGR5141 Advanced Pathophysiology (3 Credits)
NGR5601C Advanced Nursing Practice I (3 Credits)
NGR5810 Research Methods for EBP (3 Credits)
NGR5110 Theory Framework for Practice (3 Credits)
NGR6602C Advanced Nursing Practice II (3 Credits)
HSA6114 Health Organization/Delivery (3 Credits)
NGR6603C Advanced Nursing Practice III (6 Credits)
NGR6941C Primary Care Practicum (4 Credits)
NGR6740 Advanced Nursing Practice Role (3 Credits)
SELECT Project or Thesis option
```

- Students selecting NGR6970 - Project option must take a 3-credit hour elective.
- Students selecting NGR6971 - Thesis option must complete a total of 6 credit hours of NGR6971

Electives (3 credits)
ELECTIVE if completing Project option
Students selecting the Project option must take a 3-credit hour elective at 5000/6000 level with HSA, HSC, HUN, or NGR prefix. Consult with the MSN program director for options.

## Table of Contents

## Major: Nursing <br> Concentration: Clinical Nurse Spec-FT <br> Degree: Master of Science in Nursing

1st Semester (9 credits)
Fall semester
NGR5141 Advanced Pathophysiology (3 Credits)
NGR5172 Pharmacotherapeutics (3 Credits)
NGR5003C Health Assessment/Diagnostics (3 Credits)

2nd Semester (9 credits)
Spring semester
NGR5810 Research Methods for EBP (3 Credits)
NGR5110 Theory Framework for Practice (3 Credits)
NGR5780C Clinical Nurse Specialist I (3 Credits)

3rd Semester (6 credits)
Summer semester
Students are encouraged to begin Projects (NGR6970) or Thesis (NGR6971) in Third semester for 3 semester hours.

NGR6637C Clinical Nurse Specialist II (3 Credits)
SELECT ONE OF THE FOLLOWING COURSES

- EDA6302 - Lifelong Learning and Professional Development
- EDG6626 - Curriculum and Instruction Adult Learning

4th Semester (9 credits)
Fall semester
NUR6711C Clinical Nurse Specialist III
SELECT ONE OF THE FOLLOWING COURSES:

- EDA6302 Lifelong Learning and Professional Development
- EDG6626 Curriculum and Instruction Adult Learning


## SELECT ONE ELECTIVE or THESIS

- Students completing 3 semester hours of Projects (NGR6970) in Third semester should take a Graduate Level (5000 or 6000) elective in Fourth semester. HSC6505 - Epidemiology is recommended. Other approved prefixes include HSC, HSA, and NGR at the 5000 or 6000 level. Elective must be approved by program director.
- Students completing 3 semester hours of Thesis (NGR6971) in Third semester must take 3 additional semester hours of Thesis in Fourth semester.

5th Semester (10 credits)
Spring semester
NGR6740 Advanced Nursing Practice Role (3 Credits)
NGR6940C Clinical Nurse Spec Practicum (4 Credits)
SELECT NURSING PROJECT OR THESIS

- NGR6970 Nursing Project
- NGR6971 Nursing Thesis - if Thesis is not completed by Fifth semester.


## Table of Contents

## Major: Nursing <br> Concentration: Nurse Anesthetist <br> Degree: Master of Science in Nursing

1st Semester (16 credits)

| Fall semester |
| :--- |
| NGR5172 Pharmacotherapeutics (3 Credits) |
| NGR5141 Advanced Pathophysiology (3 Credits) |
| NGR6421 Prin of Anesth Nursing I (2 Credits) |
| NGR6400 Chem and Phy Anes Nsg-I (2 Credits) |
| NGR5003C Health Assessment/Diagnostics (3 Credits) |
| NGR6460 Pharm Anes Nsg I (1 Credit) |
| NGR6492 Prof Asp of Anesthesiology Nur (1 Credit) |
| NGR6431L Anesth Nursing Practicum I (1 Credit) |
| 2nd Semester (16 credits) |
| Spring semester |
| NGR6404 Adv Biosc Anes Nsg I (3 Credits) |
| NGR6422 Prin of Anesth Nursing II (3 Credits) |
| NGR6461 Pharm Anes Nsg II (2 Credits) |
| NGR6401 Chem and Phy Anes Nsg-II (1 Credit) |
| NGR5110 Theory Framework for Practice (3 Credits) |
| NGR6493 Technology in Anesth Nursing (1 Credit) |
| NGR6432L Anesth Nursing Practicum II (3 Credits) |
| NGR6490 Regional Anesthesia (2 Credits) |
| NGR5810 Research Methods for EBP (3 Credits) |
| NGR6423 Prin of Anesth Nursing III (2 Credits) |
| NGR6433L Anesth Nursing Practicum III (6 Credits) |
| Summer semester |
| Ster (13 credits) |
| 4th Semester (15 credits) |

Fall semester
NGR6405 Adv Biosc Anesth Nursing II (3 Credits)
NGR6970 Nursing Project (1-3 Credits)
NGR6434L Anesth Nursing Practicum IV (8 Credits)
NGR6494 Adv Mod Pain Mgt (3 Credits)

5th Semester (11 credits)
Spring semester
NGR6424 Prin of Anesth Nursing IV (2 Credits)
NGR6970 Nursing Project (1-3 Credits)
NGR6435L Anesth Nursing Practicum V (8 Credits)

6th Semester ( 12 credits)
Summer semester
PHC6412 Culture And Health (3 Credits)
NGR6436L Anesth Nursing Practicum VI (8 Credits)
NGR6970 Nursing Project (1-3 Credits)

7th Semester (12 credits)

Fall semester
NGR6491 Adv Anes Nsg Sem (3 Credits)
NGR6437L Anesth Nurs Practicum VII (8 Credits)
NGR6970 Nursing Project (1-3 Credits)

## Table of Contents

Major: Post-Masters FNP Certificate
Degree: Post-Masters Certificate

Certificate Requirements (28 credits)
NGR5003C Health Assessment/Diagnostics (3 Credits)
NGR5192 Pharmacotherapeutics (3 Credits)
NGR5141 Advanced Pathophysiology (3 Credits)
NGR5601C Advanced Nursing Practice I (3 Credits)
NGR6602C Advanced Nursing Practice II (3 Credits)
NGR6603C Advanced Nursing Practice III (6 Credits)
NGR6941C Primary Care Practicum (4 Credits)
NGR6740 Advanced Nursing Practice Role (3 Credits)

## Table of Contents

## Major: Nursing

Degree: Doctor of Nursing Practice

## Core Requirements (21 credits)

NGR7768 Role Devel in ANP (3 Credits)
NGR7871 Health Informatics for AP (3 Credits)
SELECT one Epidemiology course

- NGR6673 - Principles of Epidemiology for Adv. Practice
- HSC6505 - Epidemiology

SELECT one Statistics course

- NGR7843 - Statistical Interpretation for Adv. Practice
- HSC6512 - Applied Health Statistics

SELECT one Policy course

- NGR6892 - Public Policy Implications for Adv. Practice
- HSA6905 - Health Policy

NGR7850 Evidence Based Practice I (3 Credits)
NGR7851 Evidence Based Practice II (3 Credits)

Practice Residency (15 credits)
NGR7946 Residency in ANP (3-9 Credits)
NGR7974 Doctoral Project (1-6 Credits)

Major Electives (12 credits)
Select a track; Administration or Practice
ADMIN Track

- NGR6726-Quality Management for Adv. Nursing Practice
- HSA6435 - Health Economics

PRACTICE Track

- NGR7179 - Adv. Pharmacologic Management
- NGR7154 - Advanced Bioscience
- NGR7767 - Practice Management in Adv. Nursing and Healthcare


## ELECTIVE Select 1 or 2 electives

- If completing Administration track, select two Electives at the 5000-6000 level with EDG, EDA, NGR, HSA, HSC prefixes in consultation with the Program Director.
- If completing Practice track, select one Elective at the 5000-6000 level with EDG, EDA, NGR, HSA, HSC prefix in consulation with the Program Director.


## Table of Contents

## Major: Nutrition \& Dietetics <br> Degree: Bachelor of Science

## Prerequisites (32 credits)

BSC2085c/2086c and HUN2201 must be completed with a grade of B or higher. The remaining prerequisites must be completed with a grade of " C " or higher.

```
MAC1105 (GM) College Algebra (3 Credits)
STA2014 (GM)Elem Statistics-Health/SS (3 Credits)
POS2041 Intro to American Government (3 Credits)
FSS1202 Food Fundamentals (3 Credits)
FSS1202L Food Fundamentals Laboratory (1 Credit)
HUN2201 Basic Prin Human Nutrition (3 Credits)
BSC1010C General Biology I (4 Credits)
BSC2085C Human Anatomy and Physiology I (4 Credits)
BSC2086C Human Anatomy & Physiology II (4 Credits)
CHEMISTRY General Chemistry I with Lab
CHM must be a General Chemistry I with Lab (CHM2045/2045L).
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## Requisites (4 credits)

Must be completed with a grade of " C " or higher
MCB2010C Microbiology (4 Credits)

Major Requirements (57 credits)
Must be completed with a grade of " C " or higher

Nutrition Students must follow the Nutrition Course Sequence Guide in the Nutrition Program Student Handbook located at http://www.unf.edu/brooks/nutrition/undergrad_programstudy. aspx to avoid delaying graduation.

It is the policy of the Department of Nutrition \& Dietetics that a final course grade lower than "B" in HUN2201, BSC2085c or BSC2086c will prevent progress in the program until the course is taken over and a grade of " B " or better is earned. A grade lower than " C " in any of the other required nutrition program courses will prevent progression in the nutrition sequence until the course is taken over and a grade of "C" or better is earned. This could delay graduation by one year or longer.

BCH3023C Bioorganic Chemistry (4 Credits)
Take in Junior year/Fall semester
Prerequisite: CHM2045/2045L
HUN3230 Advanced Nutrition Science I (3 Credits)
Take in Junior year/Fall semester
Prerequisites: HUN2201, CHM2045/2045L, BSC2085c/2086c
Co-requisites: FSS1202/1202L, BCH3023c (can be taken earlier)
HUN3800 Nutrition Sci Res and Ethic (3 Credits)
Take in Junior year/Fall semester
Prerequisites: STA2014, HUN2201
HUN3403 Life Span Nutrition (3 Credits)
Take in Junior year/Fall semester
Prerequisites: HUN2201 \& CHM2045/2045L
Corequisites:FSS1202 \& FSS1202L (can be taken earlier)
HUN3231 Advanced Nutrition Science II (3 Credits)
Take in Junior year/Spring semester
Prerequisite: HUN3230
DIE3310 Community Nutrition (3 Credits)

Take in Junior year/Spring semester
Prerequisite: HUN2201
HSC3578 Food, Health and Society (3 Credits)
Take in Junior year/Spring semester
FOS4041 Food Science and Composition (3 Credits)
Take in Junior year/Spring semester
Prerequisites: FSS1202, FSS1202L, CHM2045/2045L
Corequisite: FOS4041L
FOS4041L Food Science Lab (1 Credit)
Take in Junior year/Spring semester
Prerequisites: FSS1202, FSS1202L, CHM2045/2045L
Corequisite: FOS4041
HSA4111 U.S. Health Care System (3 Credits)
Take in Junior year/Summer semester
HSA3160 Health Care Marketing (3 Credits)
Take in Junior year/Summer semester
DIE3213 Nutrition Therapy I (3 Credits)
Take in Senior year/Fall semester
Prerequisites: HUN2201, BSC2085c, BSC2086c, CHM2045/2045L, FSS1202,
FSS1202L, BCH3023c, HUN3403, HUN3230 \& HUN3231
DIE4122 Management Of Food/Nutrition I (3 Credits)
Take in Senior year/Fall semester
Prerequisites: HUN2201, FSS1202, FSS1202L \& MCB2010c
HUN4601C Nutrition Education (3 Credits)
Take in Senior year/Fall semester
Prerequisites: HUN2201, HUN3230, HUN3231
DIE4515 Dietetics Capstone (3 Credits)
Take in Senior year/Fall semester
Must be taken in the second year of the nutrition curriculum
DIE3246 Nutrition Therapy II (3 Credits)
Take in Senior year/Spring semester
Prerequisite: DIE3213
DIE4125 Management Food/Nutrition II (3 Credits)
Take in Senior year/Spring semester
Prerequisite: DIE4122
HUN4016C Nutrition Counsel and Comm (3 Credits)
Take in Senior year/Spring semester
Prerequisites: HUN2201, HUN3230, HUN3231
FSS4230 Quantity Food Preparation (3 Credits)
Take in Senior year/Spring semester
Prerequisites: FSS1202, FSS1202L, CHM2045/2045L \& MCB2010c
Corequisite: FSS4230L
FSS4230L Field Exp-Food Qty Preparation (1 Credit)
Take in Senior year/Spring semester
Prerequisites: FSS1202, FSS1202L, CHM2045/2045L \& MCB2010c
Corequisite: FSS4230

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## Major: Nutrition \& Dietetics <br> Degree: Master of Science

Core Requirements (6 credits)
HSC6509 Nutritional Epidemiology (3 Credits)
HUN6910 Nut/Diet Res (3 Credits)

Major Requirements ( 25 credits)
HUN6612 Nutrition Education/Counseling (3 Credits)
HUN6123 Socio Infl on Nutrition (3 Credits)
HUN5265 Methods of Nutrition Assess (1 Credit)
HUN6285 Nutrition and Metabolism I (3 Credits)
HUN6331 Nutr and Metabolism II (3 Credits)
DIE6248 Clinical Nutrition (3 Credits)
HUN6916 Adv Conc Nutr (3 Credits)
PHC6050 Public Health Biostats I (3 Credits)
HUN6911 Nutrition / Dietetics Seminar (1-3 Credits)

Major Electives (12 credits)
Select one option below: Clinical Practicum option, Thesis option, or Non-Thesis option. To pursue the Clinical Practicum option (Internship) you must be admitted through D \& D Matching

PRACTICUM OPTION
Students will complete DIE6940 Clinincal Practice Nutr/Diet four times for a total of 12 semester hours.

THESIS OPTION
9 semester hours of DIE6970 - Thesis and 3 semester hours of Elective (selected with Program director)

NON-THESIS OPTION
12 semester hours of projects, independent study, or field research.

- DIE6906 - Dietetics Independent Study and Research
- DIE6945 -Dietetics Field Experience
- DIE6912 - Projects in Nutrition \& Dietetics
- DIE6931 - Special Topics in Dietetics
- DIE6900 - Dietetics Readings \& Conference


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## Major: Health Administration <br> Degree: Bachelor of Health Admin.

## Prerequisites (15 credits)

Must be completed with a grade of " C " or higher
ACG2021 Prin of Financial Accounting (3 Credits)
ACGX021, ACGX024 or ACGX001 and ACGX011 are acceptable substitutes for ACG2021.

ACG2071 Prin Managerial Accounting (3 Credits)
ACGX071 and ACGX301 are acceptable substitutes for ACG2071.
ECO2023 Principles of Microeconomics (3 Credits)
STA2023 (GM) Elem Statistics-Business (3 Credits)
SELECT ONE COMPUTER APPLICATIONS COURSE
CGSX061, CGSX100 and ISMX000 are acceptable substitutes for the CGS
requirement. Recommend CGS 1100 or CGS 1570

## Requisites (3 credits)

Must be completed with a grade of " C " or higher
HSA2530 The Language of Healthcare (3 Credits)

Major Requirements (42 credits)
Must be completed with a grade of " C " or higher

- **New as of fall $2013^{* *}$ Students electing to take Long Term Care Internship must add the Aging Services concentration. See a Brooks College of Health advisor.

> HSA3111 Intro to Health Administration (3 Credits) HSA4111 U.S. Health Care System (3 Credits) HSA3522 Managerial Epidemiology (3 Credits) HSA4553 Health Law and Ethics (3 Credits) HSA4170 Health Care Finance (3 Credits)

Prerequisite: ACG2021
HSA3113 Consumer Issues in Healthcare (3 Credits)
HSA3210 Long Term Care Administration (3 Credits)
HSA4150 Introduction to Health Policy (3 Credits)
HSA3191 Health Information Systems I (3 Credits)
HSA3340 Healthcare Human Resources (3 Credits)
HSA3383 Quality Mangement Healthcare (3 Credits)
HSA3160 Health Care Marketing (3 Credits)
HSA4004 Professional Skills Dev (3 Credits)
Prerequisite: HSA4170
Co-requisite: HSA4922
HSA4922 Capstone: Health Admin (3 Credits)
Prerequisites: ACG2021, ACG2071, ECO2023, STA2023, CGS1100, HSA4170
Co-requisite: HSA4004
Must be completed the semester prior to Internship

Internships (6 credits)
Must be completed with a grade of " C " of higher.

- HSA4850 must be completed in the last academic semester of enrollment.
- All program pre-requisites and major requirements must be completed prior to start of the Internship.
- Up to two major elective courses may be taken with the internship. You must petition to
take coursework with the Internship.
- Students wishing to qualify for the HSA4941 Long Term Care Administration Internship must complete the concentration in Aging Services. See a Brooks College of Health advisor to add the concentration.

HSA4850 Health Admini Internship (6 Credits)
Prerequisites:ACG2021, ACG2071, ECO2023, STA2023, CGS1100, HSA4170, and HSA4004.

Major Electives (12 credits)
Must be completed with a grade of " C " or higher.

- Students completing the 6 semester hour Health Administration Internship (HSA 4850) must take 12 semester hours of elective (total 4 courses). Up to 2 electives can be taken while interning.
- Students applying for the 9 semester hour Long Term Care Internship must complete the Aging Services concentration instead of the major electives.
Required courses are
- HSA3154 Aging Policy and Politics
- GEY3004 Aging in America
- GEY3503 Assisted Living Administration (available in fall and spring only)

See a Brooks College of Health advisor to add the concentration.

## SELECT 4 COURSES FROM THE FOLLOWING:

Elective options

- GEY, HSA, HSC, or MAN courses at the 3000/4000 level
- Other upper level $(3000 / 4000)$ courses with approval of the program director. See a Brooks College of Health advisor for a list.


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## Major: Health Science <br> Concentration: Community Health <br> Degree: Bachelor of Science in Health

Prerequisites ( 25 credits)
Must be completed with a grade of " C " or higher
PSY2012 Introduction to Psychology (3 Credits)
MAC1105 (GM) College Algebra (3 Credits)
STATISTICS Elementary Statistics Course
Recommend STA 2014 or STA 2023
CHEMISTRY General Chemistry I with Lab
CHM must be a General Chemistry I with Lab (CHM2045/2045L).
CHM1025c or CHM1032c does not satisfy the General Chemistry I requirement.
MCB2010C Microbiology (4 Credits)
MCB X010C or any Microbiology with lab To take MCB2010c at UNF, the Biology department requires a grade of $B$ or higher in BSC1010c and a grade of $C$ or higher in CHM2045/2045L.
BSC2085C Human Anatomy and Physiology I (4 Credits)
BSX X085C or any Human Anatomy and Physiology I course To take BSC2085c at
UNF, the Biology department requires a grade of B or higher in BSC1010c.
BSC2086C Human Anatomy \& Physiology II (4 Credits)
BSC X086C or any Human Anatomy and Physiology II course To take BSC2086c at UNF, the Biology department requires a grade of B or higher in BSC2085c.

## Informational Text

Effective fall 2013, Community Health program students must follow the following program policies.

- Students are allowed a maximum of two attempts at all requisite, core, major, and minor courses in the Community Health program. If a student does not successfully pass one of these courses with a grade of $C$ or better at the second attempt, he or she will be dismissed from the Community Health program and not readmitted. Attempts include: receiving a passing, failing, or incomplete grade, and taking the course at another institution.
- A student will be denied admission or re-admission to the Community Health program if he or she is on either probation or suspension, or has left the university on either probation or suspension.
- Community Health students are required to complete all major requirements (HSC3032, 3713, 3304, 4800, and 4814) at UNF. Students will not be given credits toward the major for these courses if they are taken at another institution.

Requisites (3 credits)
Must be completed with a grade of " C " or higher
HSC2100 Personal and Community Health (3 Credits)

Core Requirements ( 15 credits)
Must be completed with a grade of " C " or higher
HSC3500 Epidemiology (3 Credits)
Prerequisite: STA2014 or STA2023
HSC4730 Research in Community Health (3 Credits)
Prerequisite: STA2014 or STA2023
HSC3555 Human Diseases (3 Credits)
Prerequisites: BSC2085c and BSC2086c

Major Requirements (18 credits)
All General Education, Foreign Language, Prerequisite, Requisite, Core, Major, and Minor requirements must be completed prior to internship. Only Elective courses may be completed with internship (HSC 4814). You must petition to take any Electives with internship.

- The Community Health Course Offering Guide is available in the Advising Office and online at www.unf.edu/brooks.
- After starting HSC3032 Foundations of Communtiy Health course, the Community Health Program is a 2-year long program.

HSC3032 Foundations of Comm Health (3 Credits)
Prerequisites: successful completion of all program prerequisites effective spring 2013 term. Offered in fall and spring semesters only
HSC3713 Plan and Eval Health Programs (3 Credits)
Prerequisites: HSC3032 and HSC4730. Offered in fall and spring semesters only.
HSC3304 Instruct Methods in Health Edu (3 Credits)
Prerequisites: HSC3032 and HSC3713. Offered in fall and spring semesters only.
HSC4800 Comm Health Pre-Internship (3 Credits)

- Prerequisites: Completion of all program prerequisites.
- HSC4800 must be completed the semester prior to HSC4814.

HSC4814 Community Health Internship (1-9 Credits)

- Must be completed in the last academic semester of enrollment.
- Internship placement sites outside Jacksonville area are not available. Exceptions are granted in the rare cases of extenuating circumstances and are left to the discretion of Internship Advisory Committee.

Minor Required
Health Education minor is required for the Community Health concentration.
Please refer to Health Education Minor listing in undergraduate catalog for the requirements.
Additional minors may be chosen from outside of the Brooks College of Health, however they are not required.
See your advisor to add the Health Education minor.

Major Electives (9 credits)
Major Electives must be completed with a grade of "C" or higher at the 3000/4000 level.
SELECT 3 Courses with HSC/HSA Prefix
Electives must be 3000/4000 level courses.

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## Minor: Public Health

Minor: Public Health (15 credits)
HSC3500 Epidemiology (3 Credits)
Prerequisite: STA2014 or STA2023 - Elementary Statistics
HSA4111 U.S. Health Care System (3 Credits)
HSC4210 Environmental Health (3 Credits)
HSC3032 Foundations of Comm Health (3 Credits)
Contact Brooks College of Health advising office prior to registration for an override.
SELECT ONE ELECTIVE
3000/4000 level Health Courses related to the student's area of interest in consultation with an academic advisor. Select a course with HSC or HSA prefix offered by the Department of Public Health only.

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## Major: Health Administration <br> Degree: Master of Health Admin.

Prerequisites
Students entering this program without an undergraduate degree in health administration or business administration must complete prerequisite course work in Financial Accounting (ACG2021) and Elementary Statistics (STA2014 or STA2023).
00001

Major Requirements (48 credits)
HSA5177 Health Care Finance (3 Credits)
HSA6114 Health Organization/Delivery (3 Credits)
HSA6186 Healthcare Leadership (3 Credits)
HSA6435 Health Economics (3 Credits)
HSA6198 Health Information Technology (3 Credits)
HSA6196 Quantitative Analysis Health (3 Credits)
HSA6905 Health Policy (3 Credits)
HSA6385 Quality Management Health Care (3 Credits)
HSA6149 Health Planning and Marketing (3 Credits)
HSA6427 Health Law (3 Credits)
HSA6342 Healthcare Human Resources (3 Credits)
HSA6178 Adv Health Care Financial Mgmt (3 Credits)
HSA6520 Managerial Epidemiology (3 Credits)
HSA6188 Capstone:Healthcare Strat Mgmt (3 Credits)
SELECT ONE OPTION:
For a total of 6 hours:

- HSA 6815 Pract: Exec Skill Development
- HSA 6945 Long Term Care Internship
- HSC 6970 Thesis

Electives (6 credits)
SELECT TWO COURSES FROM THE FOLLOWING
Electives must be selected from 5000 or 6000 level GEY, HSA, HSC, MAN and PAD courses or other graduate level courses with Program Director approval. MAN and PAD courses will require approval from their respective programs.

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## Major: Community Health

Concentration: Health Promotion/Health Ed
Degree: Master of Public Health

Core Requirements (21 credits)
HSA6114 Health Organization/Delivery (3 Credits)
HSC6215 Environmental Health (3 Credits)
HSC6505 Epidemiology (3 Credits)
PHC6050 Public Health Biostats I (3 Credits)
HSC6603 Theory of Health Behavior (3 Credits)
HSC6735 Health Science Research (3 Credits)
PHC6103 Public Health Practice (3 Credits)

Concentration Requirements ( 15 credits)
HSC6585 Hlth Promo/HIth Edu Strategies (3 Credits)
HSC6587 Program Plan Hlth Promo/Edu (3 Credits)
HSC6716 Health Program Evaluation (3 Credits)
PHC6940 Public Health Capstone (3 Credits)
Prerequisite: Completion of or current enrollment in all required MPH courses and permission of the PHC6940 Public Health Capstone Instructor

PHC6945 Public Health Internship (3 Credits)
Prerequisite: PHC6940 and Permission of the Capstone Instructor

Major Electives (9 credits)
Electives may be selected from HSA, HSC, or PHC courses. Other graduate level courses may be taken with approval of the MPH Program Director.

SELECT 3 courses with HSA/HSC/PHC

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## Major: Clinical Mental Health Couns <br> Degree: Master of Science

## Informational Text

Please note the following:

- Refer to the UNF graduate catalog for prerequisites to individual courses.
- Unless a course is identified as repeatable for credit, you may receive credit for a course only once. However, your GPA will reflect all repeated courses.
- Program Director approval is required prior to registering for course work at another institution.
- With Program Director approval, graduate level course work may be transferred from another regionally accredited institution.
- Apply for graduation on-line through myWings or in the One Stop Student Services Office by the fourth week of the semester you are graduating. See university catalog for specific deadlines.
- It is mandatory to follow the program course sequence. You must contact the program director for any changes in course sequence to be considered.

Major Requirements (48 credits)
MHS6486 Human Dev Across Lifespan (3 Credits)
MHS6404 Theories in Clinical MHC (3 Credits)
MHS6700 Legal, Prof, Eth in Counseling (3 Credits)
MHS6941 Clinical Counseling Skills (3 Credits)
MHS6876 Clinical Research Evaluation (3 Credits)
MHS6070 Psychopathology (3 Credits)
MHS6428 Counseling Diverse Populations (3 Credits)
MHS6510 Group Counseling (3 Credits)
MHS6205 Assessment and Evaluation (3 Credits)
MHS6305 Career Counseling (3 Credits)
MHS6800 Prac:Mental Health Counseling (3-6 Credits)
MHS6401 CMHC in Community Settings (3 Credits)
MHS6450 Addictions Counseling (3 Credits)
MHS6470 Sexual Issue in Counseling (3 Credits)
MHS6830 Intern in Mental Health Counse (3 Credits)

Major Electives (12 credits)
SELECT 12 HOURS FROM THE FOLLOWING:

- MHS6402 Overview of Brief Conseling
- MHS6430 Introduction to Family Counseling
- MHS6431 Adv. Seminar in Family Counseling
- MHS6436 Counseling Military Families
- MHS6440 Counseling Couples
- MHS6500 Advanced Practice in Group Therapy
- MHS6610 Clinical Supervision in Counseling
- MHS6916 Conceptual/Research Independent Study in CMHC
- MHS6930 Special Topics in Counseling


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## Major: Public Health Certificate

Degree: Post-Baccalaureate Certificate

Certificate Requirements (15 credits)
HSC6215 Environmental Health (3 Credits)
HSC6505 Epidemiology (3 Credits)
HSC6603 Theory of Health Behavior (3 Credits)
PHC6103 Public Health Practice (3 Credits)
SELECT One course from below

- PHC6050 Public Health Biostatistics I
- HSC6735 Health Science Research


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Major: Aging Services Certificate
Degree: Post-Baccalaureate Certificate

Certificate Requirements (15 credits)
HSA6225 Long-Term Care Administration (3 Credits)
GEY6103 Aging Health Multicultural Soc (3 Credits)
GEY6623 Aging and Health Policy (3 Credits)
GEY6409 Applied Research in Aging (3 Credits)
HSA6813 Aging Capstone (3-6 Credits)

"ONLY THOSE WHO WILL RISK GOING TOO FAR CAN POSSIBLY FIND OUT HOW FAR THEY CAN GO." g. 9. \&liot

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## Coggin College of Business Overview

- Dean's Message
- Accreditation
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## Dean' s Message

Welcome to the Coggin College of Business at the University of North Florida. We are well- known for strong undergraduate and masters programs complemented by transformational learning opportunities. In 2013, we were named an outstanding business college by the Princeton Review for the 6th year in a row.

Our faculty are accomplished researchers, well-known in their areas of expertise and beyond. Our bachelor's degree programs in accounting, economics, finance, financial services, international business, logistics, management and marketing are vibrant and growing. In fact, two of our programs (International Business and Transportation \& Logistics) have flagship designation. This an indication of outstanding program quality, national recognition and a global talent pool of faculty and students. Our graduate programs include an MBA, Global MBA, Global Entrepreneurship MBA, and Masters in Accounting. Of course, we have AACSB accreditation in business and in accounting for our undergraduate and graduate programs. AACSB accreditation is the international gold standard for quality academic programs in business management.

Some of the transformational learning opportunities that we offer are internships (arranged by our inhouse Career Management Center), study abroad in Africa, Asia, Europe and South America, and state of the art business computing technology. Our Logistics Lab has cutting edge optimization software and our Financial Trading Lab is equipped with the best trading simulation software. For hands on learning experience with investing, our students managed the Osprey Fund and compete with the finest minds in the business. Capitalizing on our location in the thriving Jacksonville metropolitan area, we have partnerships with national accounting firms, financial institutions, insurance companies, transportation companies and medical services providers, among others. Much of this interaction is via an active and engaged Business Advisory Council and a Business Associates Council.

Our business centers, which supplement academic research and support the community with business and economic data include the Bank of America Institute, Center for International Business Studies, Institute for Management Development and Organizational Quality, Local Economic Indicators Project, the Paper Institute, the Research Center in Economic and Geographic Information Systems, Center for Sustainable Business Practices and the Small Business Development Center.

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I urge you to explore beyond our website and visit us at the Coggin College. We will be delighted to meet you and show you what we have to offer.

Ajay Samant, Ph.D.
Dean \& Professor of Finance
Coggin College of Business
University of North Florida

## Accreditation

The Coggin College of Business is fully accredited at both the undergraduate and graduate levels by AACSB International - The Association to Advance Collegiate Schools of Business. Further, the Accounting programs at both the undergraduate and graduate levels have received separate accreditation by AACSB International - The Association to Advance Collegiate Schools of Business. AACSB is the premier accrediting agency for business schools internationally with only 620 business schools holding this distinction and only 177 accounting programs holding this distinction.

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## Mission

To educate and develop business professionals through accredited degree programs by having both students and faculty engaged in scholarly activities for the discovery and application of knowledge.
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## Vision

The Coggin College of Business aspires to be the institution of first choice for business education, serving North Florida wtih top-qualilty faculty excelling in teaching and scholarship, and sharing wtih students their passion for life-long dsicovery and community service.

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## Values

Coggin College staff, students, and faculty work together in a learning community characterized by civility, mutual respect, and open, honest communication.

The distinctiveness of our learning community is exemplified by the values that we consider most important. Specifically, we value:

- faculty-student interaction of the highest quality;
- global perspective, as an essential aspect of relevant business education; and
- commitment to enthusiasm for continuous learning.

Our faculty and staff embrace these values and encourage our students to do the same. As our students observe professional interactions among faculty, staff and their peers, they are provided with behavioral models to emulate.

Our goal is to live and share these values so that students learning in the Coggin College, which could be limited to receiving information, instead becomes transformational learning. That is, it
results in a positive shift in the way students think, view themselves, and view the world around them.

This transformational learning takes place in our classrooms and in experiential learning opportunities such as study abroad; internships; participation in student organizations; involvement in research projects with our faculty; and professional interactions with our staff.

We expect that students who are engaged in the Coggin College learning community will obtain high-quality positions upon graduation and have successful careers as business professionals. As alumni, they become the "Brand" of the Coggin College.
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## Wall Street Journal Partnership

Each student enrolling in one or more Coggin College of Business courses numbered 3000 or higher is assessed a fee each semester. In return, each student is able to pick up a copy of The Wall Street Journal (WSJ) from locations within the College. Moreover, each student will receive access to all of the WSJ's online editions (e.g., European, Asian), as well as Barron's online and the WSJ Employment Edition. Additional information is available at http://www.unf.edu/coggin/advising/wsj.aspx.
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## Jacksonville Business Journal Partnership

UNF's Coggin College of Business is proud to have partnered with the Jacksonville Business Journal. Every Coggin College of Business Student has online access to the Jacksonville Business Journal. This publication puts the students finger on the pulse of the local business community with access to: Exclusive Job Prospecting, Comprehensive Curriculum Supplement, Quick Research, User-Friendly pages that are also Eco-Friendly (online). Additional Information is available at http://www.unf.edu/coggin/advising/jbj.aspx.


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## Coggin College of Business

## Contact Information

Location: Building 42
Phone: (904) 620-2590
Fax: (904) 620-2594

## Mailing Address:

University of North Florida
Coggin College of Business
1 UNF Drive, Building 42
Jacksonville, Florida 32224-7699
Website: http://www.unf.edu/coggin/

## Dean's Office

Location: Building 42 | Room 2010
Ajay Samant, Ph.D., Dean \& Professor of Finance
(904) 620-2590; ajay.samant@unf.edu
C. Bruce Kavan, Ph.D., Associate Dean - Administration, Graduate Programs \& Research Bank of America Professor of IT (904) 620-2590: bkavan@unf.edu

Lynn Comer Jones, Ph.D., CPA, Associate Dean - Accreditation, Assessment \& Continuous Improvement Associate Professor of Accounting \& Taxation
Location: Building 10 | Room 2427
(904) 620-2590; Iynn.jones@unf.edu

Cheryl S. Campbell, MBA, Director, Student Services
(904) 620-2575; cheryl.campbell@unf.edu

Kathy Wohlhuter, CFRE, Director of Development
(904) 620-1833, k.wohlhuter@unf.edu

Ron Davis, MBA, Director, Budgets/Finance
(904) 620-1515; rdavis@unf.edu

Shannon Italia, BBA, Director, Career Management Center, Coggin College
(904) 620-2067; sitalia@unf.edu

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## Academic Advising

Building 42 | Room 2021
(904) 620-2575
(904) 620-2594 Fax

## Career Management Center

Building 42 | Room 2021
(904) 620-2067
(904) 620-2832 Fax

Department of Accounting \& Finance
Building 42 | Room 3001
(904) 620-1667
(904) 620-3861 Fax

Department of Economics \& Geography
Building 42 | Room 3003
(904) 620-2640
(904) 620-1300 Fax

Department of Management
Building 42 | Room 3002
(904) 620-2781
(904) 620-2782 Fax

Department of Marketing \& Logistics
Building 42 | Room 3002
(904) 620-1334
(904) 620-2782 Fax

International Business Programs
Building 10 | Room 2125
(904) 620-2521
(904) 620-5864 Fax


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## Coggin College of Business Undergraduate Academic Advisement

The Coggin College of Business cares about the success of our students. We encourage all students to visit our office during non-registration periods for shorter wait time. We hold regular information sessions called Coggin Connection, where we try to orient all students to the benefits of being a Coggin College student. All of our advisors are well trained in all of our majors in the Bachelor of Business Administration degree program.

Each degree seeking student must have an official degree evaluation and academic Osprey Map filed with the Student Service Center of the Coggin College of Business. Students should meet with an advisor concerning their program requirements as early as possible, preferably before registration for their first semester at UNF. Degree Evaluations (previously known as Programs of Study) are prepared after students' transcripts have been evaluated by the Office of Admissions. The Coggin College of Business Student Service Center is located in Building 42, Room 2021, (904) 620-2575. Visit our Web page at www.unf.edu/coggin/advising.

## Coggin College of Business Graduate Academic Advisement

The Coggin College of Business MBA students tend to have very busy careers as they take class part-time. We require all students to attend an orientaiton held just before the start of each semester. We try to orient all MBA students to the best plan for course selection that usually revolves around a busy work \& home life. Select advisors are well trained in the policies and procedures involved in completion of the degree.

Each MBA student has an online official degree evaluation that makes course requirements very easy to understand. Students should email or call an advisor concerning their program requirements as early as possible, preferably before registration for their first semester at UNF. Degree Evaluations (previously known as Programs of Study) are prepared after students' transcripts have been evaluated by the College. The Coggin College of Business Student Service Center is located in Building 42, Room 2021, (904) 620-2575. You may email an adivisor at coggin.students@unf.edu.

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- Additional Policies

The Coggin College of Business adheres to all academic policies and regulations of the University. In addition, the policies listed below apply to all undergraduate students in the Coggin College of Business. Individuals needing clarification of any of these policies, or an interpretation of how a policy might apply in a given situation, should contact the Student Service Center in the Coggin College of Business, located in Building 42, Room 2021, (904) 620-2575. Please see your Academic Advisor if you do not see the policy that applies to your specific situation.

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Transfer students are admitted into the Coggin College of Business if they satisfy the following: (note: the conditions outlined below may be overridden by the university's admission policy)

- Completion of 60 semester or 90 quarter hours at an approved institution
- Attainment of an overall average of "C" ( 2.0 on a 4.0 scale) and a minimum 2.0 grade point average at the last institution attended. All transfer credit must be evaluated to ensure that the course work is current and appropriate.
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## Exception Policy

Students who do not meet the minimum criteria above may be admitted on probation with special restrictions. The Coggin College of Business carefully evaluates the students' academic records, may ask for additional documentation, outlines restrictions that students must meet, and makes the final decision on admission or denial. Conditions for admission/readmission are monitored by an academic advisor, and students who do not meet the probationary restrictions will be suspended.
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## Admission from a Non-Degree or Special Student Status

Students seeking a BBA degree from the Coggin College of Business should meet all admission deadlines and policies and enroll as degree-seeking students. Students who are permitted to enroll as non-degree/non-admitted students may apply after one semester to be Coggin College of Business degree-seeking students. This application must be made early enough to allow students to be accepted as degree-seeking students prior to taking any additional UNF course work. In no case should a student continue in a non-degree/non-admitted status beyond one term. These students are subject to all college admission requirements. No more than 12 semester hours earned as a non-degree /non-admitted student may be transferred to an undergraduate degree program in the college. Students enrolling in a non-degree/non-admitted status will not be allowed to take upperlevel business courses until all prerequisites have been satisfied.
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## Attendance Policy

Effective Fall 2003, students are required to attend the first class meeting. Registered students not attending the first day of class may be dropped from the course at the instructor's discretion. Students with extenuating circumstances beyond their control, must notify the instructor if they are unable to attend the first class meeting. Contact the UNF Operator at 620-1000 for departmental phone numbers.

Effective Fall 2005, you can email your instructor directly when viewing your Detail Schedule in Banner Self Service, via the Academic tab within the myWings web portal. Just click on the email icon next to your instructor's name.

NOTE: Non-attendance does not guarantee a student will be dropped from the course(s). Students are fee liable for all courses for which they are registered.for unless dropped. Students must drop themselves (by the end of add/drop period) from all courses they do NOT plan to attend.
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## Appealing an Academic Decision

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## Probation/Suspension Policy

Any time an undergraduate student drops below a 2.0 UNF overall \&/or semester GPA, they will be put on probation. They will stay on probation until they increase their UNF overall GPA to a 2.0 or higher. While on probation if the student does not maintain a semester 2.0 GPA or better, they will be suspended.

## Suspensions

- With the first suspension the student is not allowed to take coursework for one semester.
- With the second suspension the student is not allowed to take coursework for a minimum of one semester and a maximum of up to one year.
- With the third suspension after one year the student may try to re-reapply for admission to the university. Admission is not guaranteed.
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## Correspondence and Distance Learning Course Policy

No more than nine semester hours of correspondence or distance learning courses may be accepted as upper-level transfer coursework in a program of study for a degree-seeking student in the Coggin College of Business. Students who have matriculated into the Coggin College of Business Are not permitted to enrolling in such coursework at another institution. The number of credit hours permitted to transfer in, may vary by program.

## Lower-level Prerequisite Policy

The Coggin College of Business lower-level prerequisite courses are prerequisites for all upper-level courses in the college. A grade of "C" or better is required in each of these prerequisite courses. Students should complete all prerequisites before taking Coggin College of Business upper-level course work.
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## Prerequisite/Co-requisite* Policy

Students enrolled in Coggin College of Business courses are responsible for assuring that they have satisfactorily met the requirements for all prerequisite/co-requisite courses. The student's professor, the department chairperson, or the Director of Student Service Center has the discretionary authority to dismiss any student who has not fully complied with this policy from the related courses. Fees will not be refunded for dismissal from a course by one of the parties listed above if the dismissal is for lack of required prerequisites or co-requisites.

-     * Prerequisite = "Taken before"
- *Co-requisite $=$ "Taken at the same time"


## Incomplete Grade Policy

Faculty members in the Coggin College of Business may give a grade of " $\bar{\prime}$ " (incomplete) if special circumstances exist. Occasionally, because of sickness or other emergencies, a faculty member may choose to assign an "l" grade. The "l" grade can only be given when the student has completed a substantial part of the course and is passing the course, but because of an emergency cannot complete some final course requirements. (For example, a final exam or a term paper may need to be completed.) In these cases, an "l" grade can be assigned, and a definite time for completing the course requirements must be given. The maximum time allowed to remove a grade of " $l$ " is one calendar year or graduation, whichever comes first. Normally, however, the time permitted should not exceed one month.

In addition to recording the " $\mid$ " on the online grading system, an "Assignment of Incomplete Grade" form must be completed by the instructor. This form should give specific details on how the "I" grade is to be resolved. An "I" grade should never be assigned prior to the withdrawal date and should also never be used for the purpose of allowing a student to completely retake a course. Students may not re-register for any course in which an incomplete grade was received. Students may not graduate with outstanding "I" grades.

## Directed Independent Study (DIS) Policy

Undergraduate Students desiring to enroll in a "directed independent study" must have an institutional GPA of 2.5 or better and obtain appropriate approvals from the faculty member, department chairperson, and the Director of the Student Service Center. Traditionally, the faculty member chooses the student that is preferred for research collaboration. The student and the faculty member must complete an "independent study" form, which must detail the work to be done and grading policy to be used. Only regular faculty members can supervise directed independent study courses unless the appropriate department chairperson and the associate dean grant special permission.

The maximum number of DIS hours allowed for an individual undergraduate student is six semester hours.

## Policy on Use of International Academic Experiences in Undergraduate Degree Evaluations

The Coggin College of Business allows its students to use in their degree programs the following three types of international academic experiences. In all cases, the student and his/her academic advisor must agree in writing how credits will be used in the student's program of study before the student begins the study abroad or exchange experience.

## 1. College-sponsored faculty-led study abroad courses

These include international travel and business visits as an integral part of a larger course that focuses on business issues.

- Undergraduate students may use only one college-sponsored, faculty-led study abroad course (i.e., 3 credits) as a major course in their program of study.
- Undergraduate students may not use non-college, faculty-led study abroad courses as major electives.
- Students may use credits from college-sponsored, faculty-led study abroad courses elsewhere in their programs of study, including satisfying the following requirements:
- Coggin College of Business Cultural Diversity
- Business Elective
- Free Elective


## 2. Non-college, faculty-led study abroad courses

These are study abroad courses sponsored by other UNF colleges, which include international travel as an integral part of a larger course that focuses on non-business issues.

Undergraduate students may use study abroad courses offered by other UNF colleges to satisfy the following requirements:

- Coggin College of Business Cultural Diversity
- Non-business elective
- Free elective


## 3. Student Exchange Programs

These programs provide students with the opportunity to take courses at foreign institutions. Most student exchanges are one or two semesters in duration.
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## Acceptance of "D" Grades

"D" Grades are not acceptable in Coggin College of Business courses.

## Change of Major Policy

Matriculated students that desire to enter the Coggin College of Business from another college, or those wishing to change majors within the college, must have a cumulative GPA of 2.00 or higher. Students should meet with an academic advisor to review required coursework. Academic advisors will submit the major change request.
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## Concurrent Enrollment Policy

Concurrent enrollment at other institutions is NOT permitted for Coggin College of Business students.

In extenuating circumstances (documentable) when permitted, concurrent enrollment requires prior approval in advance of taking courses at another institution. Students must first fill out a "Waiver of College Policy" form for permission. If permission is granted, students must complete the Concurrent Enrollment form on www.flvc.org website. See your advisor for clarification.

Students are not allowed to take courses at another institution in their final semester at UNF. This policy includes correspondence courses and CLEP examinations. If a student obtains permission to take a prerequisite course at another institution, permission to take the subsequent course will not be given until a final grade is provided
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## Continuous Enrollment

UNF defines continuous enrollment as UNF class enrollement without a break of three or more consecutive semesters (note: summer counts as a semester). Students who break continuous enrollment (by not attending or withdrawing from all courses) are subject to the program requirements published in the catalog for the academic year in which they reinitiate continuous enrollment at UNF.
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## Double Majors and Simultaneous Degree Policies

## Double Majors:

Any UNF student working towards a single baccalaureate degree who satisfies all requirements for two majors within the Coggin College of Business will be awarded two diplomas and both majors will be indicated on the permanent record. Once the degree has been awarded, subsequent course work cannot be added to create a second degree for either major. In order to earn a double major, students must complete all prerequisites and major requirements for each major. Students must meet GPA requirements for each major and earn a minimum of 120 semester hours.

## Simultaneous Degrees:

A Coggin College of Businss student may pursue a simultaneous degree as long as the second college (for example Arts and Sciences) agrees that the student may seek the simultaneous degree in that college. Advisors in both colleges work closely together to ensure the student completes the appropriate courses and meets all requirements to obtain two degrees (simultaneously) at the University of North Florida.

## General Education and Foreign Language Policy

All Coggin College of Business students are expected to complete all general education and foreign language requirements before reaching senior standing ( 90 semester hours). Students who do not comply with this policy may have their enrollment restricted to specific courses.

## GPA Required for Graduation

Students graduating with a BBA degree must have a minimum 2.00 GPA in all course work taken at UNF, in all course work in their degree program, and in all upper-level course work taken at UNF. Students will not be allowed to take the Business Policy course without a 2.00 GPA in both the UNF overall and UNF upper level GPA.
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## Graduation with Less than 60 Upper Level Hours

Graduation with a Bachelor's degree from the Coggin College of Business with less than 60 upperlevel credits is NOT permitted. Additionally, all students attempting to graduate with a bachelor's degree in business must have 120 credits overall that count toward the degree.
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## Leveling Policy for Upper-level Courses

Students must have complete a minimum of 51 semester hours of acceptable college-level course work in order to enroll in 3000 or 4000 -level courses in the Coggin College of Business. There is one exception to this policy: BUL 3130 Legal Environment of Business.
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## Second Undergraduate Degree in Business Administration

In order to earn a post-baccalaureate Bachelor of Business Administration degree from UNF, students who already hold a UNF bachelor's degree in business must complete a minimum of 30 additional hours of upper-level course work at UNF. If the first degree is not a UNF business degree then a minimum of 45 additional upper-level hours of upper level-course work at UNF must be completed. This course work must be directly related to the new major and new degree. If these course distribution requirements cannot be met, then a second degree in that major cannot be earned. Therefore, students desiring to earn a second bachelor's degree in Business Administration must have an approved degree evaluation before beginning work on the second degree.

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## Transfer Enrollment Policy

Students transferring from other institutions with upper level credit completed that will have an expiration date of less than 10 years at the date of graduation (see special policy below on the transfer of major courses) may use a very limited number of credits in their upper level program of study if appropriate. The courses must be equivalent to required UNF courses, and the student must have earned a grade of " C " or better in each course. It is the student's responsibility to furnish proof of this equivalency (syllabus). A limited number of courses carrying common course numbers and completed at approved (AACSB accredited) Florida institutions will be applied appropriately to degree requirements. See an academic advisor about the limitations of transfer courses.

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## Policy on Multiple Minors

Undergraduate students pursuing a BBA degree in the Coggin College of Business who wish to pursue more than one minor in their degree evaluation may do so. Students should contact their academic advisor and have a maximum of two minors incorporated into their degree evaluation. Students should not just assume that taking the courses required for the minor will ensure that the minor will be recorded in their academic record (degree evaluation and transcript). Students
pursuing the BBA degree are not required to choose a minor.
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## 10-Year Rule

This policy related to degree evaluation course work applies both to courses taken at UNF and courses taken at other institutions. Courses expire when they are 10 years old and will need to be repeated.

This includes:

- All core courses
- All major courses
- All major electives
- For International Business majors, this includes regional studies and intermediate foreign languages
- All substitutions for the above courses

This excludes:

- All pre-req/foundation classes
- All cultural diversity
- All public speaking
(Note: Classes that may be in the 10-year window at start of the degree may fall off of the degree evaluation as the $\mathbf{1 0}$ year window closes and the courses expire.)
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## Additional Policies and Procedures

This catalog does not encompass all policies and procedures for the programs in the Coggin College of Business. Please contact an academic advisor for clarification or additional information. As a student you are responcible for any policies and procedures not included on this page or discussed by your advisor.


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# Coggin College of Business Undergraduate Degree Requirements 

- Accounting Major
- Business Administration Major
- Economics Major
- Finance Major
- Financial Services Major
- International Business Major
- Management Major
- Marketing Major
- Transportation and Logistics Major


## Accounting Major

The objectives of the BBA in Accounting are:

1. To attract and retain students from diverse backgrounds with the abilities required for success in accounting careers.
2. To provide accounting students with analytical, team-building, and technological skills; written and oral communication skills; critical thinking, research and problem solving skills that are necessary for lifelong success in the accounting profession.
3. To provide exposure to economic, global, political, social, legal, ethical, regulatory, environmental, and technological issues.
4. To encourage students to become active in professional organizations in accounting and taxation.
5. To maintain an AACSB accredited undergraduate degree program.
6. To prepare students to enter quality graduate programs.
7. To provide students not seeking a graduate degree a means of fulfilling the CPA requirements in Florida.
8. To provide internship and field experience opportunities to students.
9. To provide students the opportunity to work with faculty on research projects.
10. To provide students opportunities for international travel and study.

While the objectives of the various accounting areas of study have several common paths, there is a point where they diverge. Public accountants need more emphasis in the concepts and standards of auditing and financial reporting. Management accountants, serving as controllers, treasurers, and other financial executives need more concentration in the use of accounting data for predicting

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future costs and income, as well as for evaluative purposes. Governmental accountants need additional emphasis in special accounting methods for non-profit organizations. Internal auditors need to be able to evaluate managerial effectiveness and efficiency

Regardless of their choice, students will be expected to demonstrate a sound liberal arts education so that their accounting studies can be seen in the perspective of the broader purposes of the organization that employs them, of society's economic, social and cultural institutions, and of their own life goals.

## Business Administration Major

## I. Recommended Lower-Level or Community College Curriculum: 60 Hours

(A minimum grade of " C " is required in all coursework)

## General Education, General Electives, and Required Courses

a) Required lower-level courses

- Principles of Financial Accounting: 3 hours
- Principles of Managerial Accounting: 3 hours
- Principles of Macroeconomics: 3 hours
- Principles of Microeconomics: 3 hours
- Elementary Statistics for Business: 3 hours
- Calculus for Business: 3 hours
- Computer Applications for Business: 3 hours
b) Other General Education and General Electives: 39 hours


## II. Upper-Level Requirements: 60 Hours

a) Courses Common to all Majors: 18-21 hours

- FIN 3403 Financial Management: 3 hours
- MAR 3023 Principles of Marketing: 3 hours
- MAN 3504 Production/Operations and Logistics Management: 3 hours
- MAN 3025 Administrative Management: 3 hours
- BUL 3130 Legal Environment of Business: 3 hours (some majors require SOP 3004 Social Psychology)
- MAN 4720 Strategic Management \& Business Policy: 3 hours
b) Area of Concentration: 18-29 hours
c) Required Business Courses (3000-level or higher): 3-15 hours
- Approved Quantitative Course: 3 hours
- Approved Economics Course: 3 hours
- Approved Information Systems Course: 3 hours
- Approved "International" Course: 3 hours
d) Required Non-Business Courses: 3-6 hours
- Approved Cultural Diversity Course: 3 hours
- Approved Oral Communication Course (student may substitute an upper-level non-business elective if this requirement was satisfied at the lower level): 3 hours
e) Other Electives: 0-3 hours


## III. Total Requirements for a Degree: 120 Hours

## Economics Major

The program in the Department of Economics and Geography in the Coggin College of Business is designed to provide students with the tools and concepts necessary to understand our modern economy, to function more effectively as citizens, and to make sound decisions. A major in economics opens the door to a wide variety of jobs in business, government, finance, and the professions. Economics is particularly appropriate for those students who plan to enter public service or law, whether in the community or at other levels, or who plan to go on to graduate study.

## Students should choose their elective courses in economics in support of their expected

 career goals. The department faculty recommends the following:Students interested in emphasizing international economics, should take 3 of the following:

- ECO 3703 International Economics
- ECO 4723 International Monetary System
- ECS 3013 Economic Development
- ECS 3303 Current Issues in the Economics of the European Union
- ECS 3403 Current Issues in the Economy of Latin America

Students planning to enroll in law school should take 3 of the following:

- ECO 4504 Public Finance
- ECP 3403 Economics of Industrial Organization
- ECP 3451 Law, Economics, and Public Policy
- ECP 4413 Government and Business

Students planning to enroll in graduate school in economics should take 3 of the following:

- ECO 3411 Business and Economic Statistics
- ECO 3421 Econometrics
- ECO 3422 Advanced Econometrics
- ECO 4401 Mathematical Economics
- GIS 3043 Introduction to Geographic Information Systems

The faculty strongly recommends that these students pursue at least a minor in mathematics or statistics, to include some of the following courses, (note that graduate school admission requirements in economics often require Calculus I and II and Linear Algebra):

- Calculus I and II (additional courses are encouraged
- Linear Algebra
- Differential Equations
- Probability and Statistics at the upper-division level
- Statistical Methods I and II

Those students seeking to enter the work force after receipt of their bachelor's degree, or a more general curriculum, should take 3 of the following:

- ECO 4223 Monetary Economics
- ECP 3403 Economics of Industrial Organization
- ECP 3530 Health Economics and Policy
- ECP 3613 Urban Economics
- ECP 3703 Managerial Economics
- ECP 4413 Government and Business

Students expecting to work in the field of planning should take at least one of the following:

- GIS 3043 Introduction to Geographic Information Systems
- GIS 4048 Intermediate Geographic Information Systems
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## Finance Major

The shared objectives of the BBA in Finance and the BBA in Financial Services are:

1. To attract and retain students from diverse backgrounds with the abilities required for success in finance careers.
2. To provide finance students with the skills necessary for success in the finance profession, including analytical, team-building, and technological skills; written and oral communication skills; critical thinking, research and problem-solving skills that are necessary for lifelong success in the finance field.
3. To provide exposure to global, political, social, legal, ethical, regulatory, environmental, and technological issues.
4. To encourage students to become active in professional organizations in finance.
5. To provide internship and field experience opportunities to students.
6. To provide students an opportunity to work with faculty on research projects.
7. To provide students opportunities for international travel and study.

The major in finance is designed to develop an understanding of the financial aspects of the contemporary economy, the operation of financial institutions, and the financial management of business operations. The program offers three primary focuses.

Option 1: Corporate - emphasizes financial management of the firm and focuses on financial analysis, planning, control, and formulation and implementation of corporate financial strategy. The objective of this option is to prepare students for careers as financial managers of corporations or other for-profit or non-profit organizations.

Option 2: Investments - emphasizes security and portfolio analysis, the trading and creation of the various instruments within the markets, and the management of assets and liabilities. The objective of this concentration is to prepare students for careers as financial analysts and to begin the preparation of students for the Level I test of the Certified Financial Analysis (CFA) designation.

Option 3: Real Estate - prepares students for careers in the diverse field of real estate. The program is designed to acquaint students with real estate brokerage, management, appraisal, acquisition, lending, and development with particular emphasis on real estate appraisal, finance, and investment.

The selection of courses for the major in finance should be arranged by students with their academic advisor in conformance with the general requirements outlined below. FIN 3403 and FIN 3233 should be the first two finance courses taken. It is incumbent upon students to plan their courses with the semester in which they are normally offered. Requests for course substitutions in order to graduate without required concentration courses will rarely be granted. Students are warned not to delay taking their finance courses because of prerequisites and limited course offerings.

## Financial Services Major

The shared objectives of the BBA in Finance and the BBA in Financial Services are:

1. To attract and retain students from diverse backgrounds with the abilities required for success in finance careers.
2. To provide finance students with the skills necessary for success in the finance profession, including analytical, team-building, and technological skills; written and oral communication skills; critical thinking, research and problem-solving skills that are necessary for lifelong success in the finance field.
3. To provide exposure to global, political, social, legal, ethical, regulatory, environmental, and technological issues.
4. To encourage students to become active in professional organizations in finance.
5. To provide internship and field experience opportunities to students.
6. To provide students an opportunity to work with faculty on research projects.
7. To provide students opportunities for international travel and study.

The major in financial services is designed for the student who is interested in a career in the dynamic financial services sector which includes personal financial planning, banking, insurance, and related areas.

Financial Planning Concentration: This concentration integrates finance, accounting, employee benefits, and insurance. The objective is to prepare students for careers in the growing fields of financial services and financial planning. This concentration also emphasizes communication skills. The curriculum is designed to prepare students for the examinations leading to professional designations such as Certified Financial Planner ${ }^{T M}$ (CFP ${ }^{\text {TM }}$ ) and Chartered Financial Consultant(ChFC).

The selection of courses for the major in financial services should be arranged by students with their academic advisor in conformance with the general requirements outlined below.

The requirements for a major in financial services are:

1. Prerequisites for Coggin College of Business:

60 lower-level credit hours from an approved institution (See accounting curriculum for complete details).
2. Requirements to earn the bachelor of business administration degree with a major in financial services are:

CFP ${ }^{\text {TM }}$ and Certified Financial Planner ${ }^{\text {TM }}$ are certification marks owned by the Certified Financial Planner Board of Standards, Inc. These marks are awarded to individuals who successfully complete the CFP Board's initial and ongoing certification requirements.
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## International Business Major

The international business major has been designated part of the International Business Flagship program by UNF's president. The international business major is designed for students who are excited about the increasing globalization of the business world, working and traveling abroad as well as understanding other cultures and speaking other languages. Students who major in international business will be prepared not only for doing business domestically, but also for engaging in the dynamic world of global business which includes marketing, logistics, import/export and international finance.

All Coggin College of Business students receive a solid foundation in all functional areas in business, including economics, finance, law, management, and marketing. In addition, all students develop both quantitative skills and communications skills. However, UNF international business majors distinguish themselves from other business majors in five ways. First, they learn about international aspects of functional business areas, including economics, finance, management and marketing. Second, they become proficient in a foreign language. Third, they learn about a particular area of the world. Fourth, all international business students must complete a one-semester internship with a company actively involved in international business. This training provides international business majors with practical experience that will make them more marketable upon graduation. Fifth, all international business majors are required to complete an approved international education experience through the Coggin College of Business of four weeks or more.

International business majors must satisfy all requirements for the BBA degree.
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## Management Major

The management major is designed for students who envision embarking on a career that will lead them into organizational management. The theme of the Department of Management is value creation. As both a discipline and a process, the theoretical paradigms and frameworks upon which
managers create value provide a strong foundation for our scholarly research and innovative instruction. The development of an organization's people, technology, and cross-functional processes, as well as their subsequent interaction, facilitate the internal environment necessary to create value. For effective value creation, these activities must be consistent with each other and with the organization's strategy. In addition, value-creating activities must transform over time to meet the changing demands of the external environment. Therefore, effective management requires an understanding of the dynamics of the internal environment, monitoring of the external environment, and the evolving process of strategic implementation. Thus, the management curriculum is to develop the student's proficiency in resource evaluation, resource allocation, and resource management. This mission theme recognizes all organizational inputs (i.e., human resources, financial resources, physical resources, and knowledge, informational and systems resources) as resources that must be managed for an organization to function effectively.


The curriculum is under constant review by the faculty to insure that its combination of business, technical, and behavioral courses remain relevant to the ever-changing business environment and global economy, and prepares the management major to meet the challenges they would likely face in either the private, public, or non-profit sectors. The student majoring in management is provided with program flexibility in tailoring their individual programs toward degree and career objectives. Each course within the management major has been designed to provide the student with specific and discrete content while also demonstrating the course's applicability to the overall mission theme.

Students who choose management as their area of concentration must satisfy all requirements for the BBA degree. As a part of the BBA degree program, these students must satisfy the management major requirement and a contextual studies requirement. The individual seeking to major in the Management discipline is required to take all courses required for the Management major, including the BBA core, in residence at the University of North Florida. Transfer credit may be accepted only on an exception basis through the petition process.
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## Marketing Major

Web Address: http://www.unf.edu/coggin/marketing
The marketing major is intended for students who seek learning opportunities about marketing functions, institutions, and marketing management practices in consumer and organizational business, industrial and governmental foundations and functioning of marketing and marketing management and to develop their understanding, appreciation and proficiency in marketing decision making within firms and across society. The curriculum furnishes students with content knowledge and its applications in the principles of marketing, consumer behavior, marketing research and information systems, strategic marketing management, international marketing and additional elective areas of marketing as well as more general knowledge and skills relevant to business and a business career. The major also includes behavioral, technical, and elective courses in order to prepare the student for a marketing management career. Flexibility is allowed so that students have
some discretion in orienting their program toward career and degree objectives. Students are encouraged to work closely with their advisors in selecting major and contextual courses, which are appropriate to their objectives.

Students who choose marketing as their area of concentration must satisfy all requirements for the BBA degree. As a part of these requirements, marketing students must satisfy the marketing concentration requirement and a contextual studies requirement. A maximum of 15 hours of marketing, excluding marketing courses required of all BBA candidates, will be counted toward satisfying degree requirements.

Students with an interest in a sales career should select MAR 4403 Sales Management, MAR 4400 Professional Selling and MAR 4946 Professional Sales Internship as marketing major electives.
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## Transportation and Logistics Major

The University of North Florida's Transportation and Logistics Program offers a unique and rewarding program for students electing to major in transportation and logistics. The program prepares students for challenging careers in supply chain management, international logistics, transportation, and physical distribution. Many graduates of the Program have accepted positions with local logistics firms as well as with major corporations located across the country. The Program has received considerable state, national, and international recognition. The University of North Florida has designated the program as one of only four Flagship programs so identified on campus. The program is ranked 13th in its field in the USA, placing it among top-tier research universities nationally, and the highest among non-doctoral-granting institutions. A spring 2007 Journal of Supply Chain Management article also placed the program in the top 25 in terms of thought leadership in the discipline, as measured by the last 40 years of publications in that journal. Program graduates are automatically certified (upon application, by blanket waiver) by the American Society of Transportation \& Logistics - a recognition of curriculum quality granted to only 25 programs nationwide. The Florida Board of Regents selected the UNF Transportation and Logistics Program as one of the initial five programs to receive the Florida Legislature's "Programs of Distinction" emphasis within the State University System. The Board of Regents further recognized the Program by designating it as one of the university system's "Centers for Excellence." These distinctions provide many opportunities for the Transportation and Logistics Program to develop innovative approaches for transportation and logistics education and community service.

The Prime F. Osborn III Eminent Scholar Chair in Transportation has greatly enhanced the program's research capabilities and leadership in logistics education. The professorship resulted from a gift by the CSX Corporation in honor of the late Prime F. Osborn III, past CSX board chairman. This honor recognizes Mr. Osborn's long-standing support of developing quality education in America and his leadership in the transportation industry.

The program has outstanding fit to the regional economy. As a growing leader in logistics and international commerce, the Jacksonville area represents a tremendous opportunity for gaining logistics experience. Jacksonville has become a major distribution hub with extensive access to rail, air, maritime and highway transportation as well as to warehousing and international logistics. The city has been recognized as one of the top 10 logistics-friendly U.S. cities, and transportation and logistics has been identified as one of city's four economic "super sectors." More than 650 firms in the region have some significant involvement in freight movement. Program faculty have built outstanding connections to regional T\&L leaders CSX, CEVA (formerly TNT) Logistics, Landstar, Crowley, Sea Star Line, and Southeast Toyota Distributors (all of whom are headquartered here), as well as leading firms who require Transportation \& Logistics expertise, including GE, Target, Walgreens, Sears, and PSS World Medical. Internships with local companies provide opportunities for students to gain hands-on management experience while also applying their education in a realworld setting.

All students seeking a BBA degree with a major in Transportation and Logistics must meet all of the requirements for that degree, including the prerequisites and the 21 credit hours common to all majors. The Transportation and Logistics major also offers significant flexibility for students to double major in other business programsin order to obtain a competitive advantage in the job market due to the high demand for logistics graduates.


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# Coggin College of Business Undergraduate Majors 

- Accounting, BBA
- Business Management, BBA
- Economic, BBA
- Finance, BBA
- Financial Services - Financial Planning, BBA
- International Business, BBA
- Marketing, BBA
- Transportation and Logistics, BBA


## Additional information on:

- Honors in the Major Program
- Study Abroad Opportunities


## Double degree programs:

- International Business - UNF to Euromed
- International Business - Euromed to UNF


## Honors in the Major Program

The Honors Program at UNF is designed for the student who is intellectually mature and seeks the challenge of academic work that is different from the traditional course of study. It offers students a close collegial relationship with the University's top professors and with each other. There are two types of honors programs at the University of North Florida. The first is a lower-level program open to freshmen and sophomores. The second is the "Honors in the Major" program open to upper-level students in the Coggin College of Business. A student does not have to be in the lower-level honors program to enroll in the upper-level "Honors in the Major" program.

The Coggin College "Honors in the Major" program includes a mentor experience, an individualized curriculum, a research experience, an honors colloquium, and special recognition on the student's transcripts and diploma. Admission is competitive and limited to students who have a cumulative GPA of 3.5 or better. More information on additional admission requirements and procedures for applying to the program can be obtained from the Department of University Honors at (904) 6202649.

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## Undergraduate Study Abroad Opportunities

The Coggin College of Business supports and encourages undergraduate students to study abroad.
The Coggin College of Business (http://www.unf.edu/coggin/abroad/ ) offers four types of study abroad programs for undergraduate students:

- Double Degree Programs (via exchange partners)
- Semester and academic year abroad (via exchange partners)
- 4 week summer programs (via exchange partners)
- Faculty-led study abroad courses

Note: Coggin undergraduate students can only apply TWO upper-level, faculty-led study abroad courses towards their program of study. This excludes the 4 -week summer and semester programs. Also, Coggin undergraduate students can only use ONE faculty-led study abroad towards their "major" requirements.
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## Double degree Programs



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## Coggin College of Business Undergraduate Minors

- Business Administration
- Economics
- Entrepreneurship
- Finance
- Geography
- International Business


## Minors in the Coggin College of Business

Students wishing to obtain a minor must apply through an established procedure with their Academic Advisor.

## Minor in Business Administration

Departments or divisions outside the Coggin College of Business that wish to offer a minor in business administration may do so provided the minor meets the requirements, including the prerequisites, below. Departments wishing to offer a minor in business administration should discuss the issue with the Coggin associate dean prior to submitting formal program material.

## Minor in Economics

The minor in Economics is designed for students who want to supplement their major with a background in the field that is the backdrop for all business fields. having a minor or major in economics reveals to an employer or a graduate school that one possesses analytical decision making training and also that you liekly ahve a global perspecitve on the economy and business.

## Minor in Entrepreneurship

Entrepreneurial jobs are very different than those in existing corporations. Students must learn to manage risks and have the proper skills necessary to assess many different business situations. Only with critical thinking skills applied specifically to entrepreneurial issues in finance, marketing and management can these individuals reach the skill and knowledge levels required for success. The goal of the minor in Entrepreneurship is to provide students with an experiential approach to learning that builds these skills. The minor is distinct from the other minors in the Coggin College of Business in terms of the courses offered and the perspective from which business concepts will be approached and applied.

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## Minor in Finance

The minor in finance has been added to meet the needs of Accounting, International Business and other Coggin College of Business majors for additional coursework in this important area.

## Minor in Geography

Spatial skills in Geography and GIS prepare students for a wide variety of occupations in government, business, planning, and education. The importance of Geographic Information Systems (GIS), and in particular, Business GIS, has increased interest and demand for GIS and other geography courses in recent years.

## Minor in International Business

Students in the Coggin College of Business with an interest in the increasingly important area of international business may wish to develop a schedule which includes the courses constituting the minor in international business. With careful course scheduling, a student should be able to meet the requirements for the minor without exceeding the 60 upper-level hours required for the BBA degree. Interested students should discuss the minor with their advisor and the director of the program. The minor is an excellent way for a student majoring in business to pick up a support area without completing all of the courses necessary to get a second major.

Note: All minors have requirements on the minimum number of courses taken at UNF. A minimum grade of " C " is required for all minors in the Coggin College of Business.


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- Foundation Requirements
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## Required GPA

Students graduating with a graduate degree or graduate certificate from the Coggin College of Business must have a minimum of " C " or better in all coursework taken at the graduate level. Concentration courses must be complete with a grade of "B" or better. All students are required to have a minimum 3.0 UNF GPA (both combined and separate at the $5000 \& 6000$ levels) prior to enrolling in MAN 6726 Advanced Business Policy and in order to earn a degree.
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## Graduate GPA Calculation Policy

The Graduate GPA will be calculated from the courses that are counted on the Program of Study. This calculation will also include all courses that are repeated.

In order to take MAN6726 \& to graduate:

- 5000 level GPA can be below 3.0
- 6000 level GPA must be 3.0 or better
- Total grad GPA for MBA must be 3.0 or better
(There is no grade forgiveness at the Graduate level)

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## Minimum grade allowed in Coggin Graduate programs

A student is not permitted to make a grade less than a "C" in any of our graduate programs. In some cases (eg: concentration classes) the student is not permitted to make a grade less than a " B ". Please speak with your advisor for clarification.
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## Probation/Suspension Policy

If a graduate student's individual grade in a course, current term GPA or total institution GPA drops below 3.0, the student will be placed on probation. Probationary status will remain in effect until both of the student's GPAs become 3.0 or higher.

If both the current term and total institution GPA fall below 3.0 during the next term of enrollment, the student will be suspended.

Students with a total institution GPA below 3.0 may not enroll in Advanced Business Policy.

- First suspension: the student is not allowed to enroll in courses for one semester.
- Second suspension: the student is not allowed to enroll in courses for two semesters.
- Third suspension: the student is not allowed to enroll in courses for at least three semesters (i.e., one full calendar year). Students wishing to be readmitted to the Coggin College after a third suspension must reapply through The Graduate School.


## One cannot take MAN 6726 (Advanced Business Policy) if on probation.

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## Prerequisite / Co-requisite* Policy

Students enrolled in Coggin College of Business courses are responsible for assuring that they have satisfactorily met the requirements for all prerequisite/co-requisite courses. The student's professor, the department chairperson, or the Director of Student Service Center has the discretionary authority to dismiss any student who has not fully complied with this policy from the related courses. Fees will not be refunded for dismissal from a course by one of the parties listed above if the dismissal is for lack of required prerequisites or co-requisites.

-     * Prerequisite $=$ "Taken before"
-     * Co-requisite $=$ "Taken at the same time"
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## Incomplete Grade Policy

Faculty members in the Coggin College of Business may give a grade of "l" (incomplete) if special circumstances exist. Occasionally, because of sickness or other emergencies, a faculty member may choose to assign an "l" grade. The "l" grade can only be given when the student has completed a substantial part of the course and is passing the course, but because of an emergency cannot complete some final course requirements. (For example, a final exam or a term paper may need to be completed.) In these cases, an "I" grade can be assigned, and a definite time for completing the course requirements must be given. The maximum time allowed to remove a grade of "l" is one calendar year or graduation, whichever comes first. Normally, however, the time permitted should not exceed one month.

In addition to recording the "l" on the online grading system, an "Assignment of Incomplete Grade" form must be completed by the instructor. This form should give specific details on how the "I" grade is to be resolved. An "l" grade should never be assigned prior to the withdrawal date and should also never be used for the purpose of allowing a student to completely retake a course. Students may not re-register for any course in which an incomplete grade was received. Students may not graduate with outstanding "l" grades.
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## Attendance Policy

Effective Fall 2003, students are required to attend the first class meeting. Registered students not attending the first day of class may be dropped from the course at the discretion of the instructor. Students having extenuating circumstances beyond their control who are unable to attend the first class meeting must notify the instructor. Contact the UNF Operator at 620-1000 for departmental phone numbers.

Beginning Fall 2005, you can email your instructor directly when viewing your Detail Schedule in Banner Self Service, via the Academic tab within the myWings web portal. Just click on the email icon next to your instructor's name.

Many professors require attendance to all meeting sessions of their course. Attendance guidelines are generally set by each individual professor.

NOTE: Non-attendance does not guarantee a student will be dropped from the course(s). Students are fee liable for all courses for which they are registered for unless dropped. Students must drop themselves (by the end of add/drop period) from all courses they do NOT plan to attend.
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## Appealing an Academic Decision

Learn about the policies for appealing an academic decision.
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## Foundation Requirements

The business graduate foundation requirements consist of a set of subjects considered by the graduate faculty as required for regular graduate study in the MBA or MAcc degrees.

The foundation requirements include: Foundations of Marketing and Management, Law and the Business Environment, Economic Analysis, and Financial Analysis. These foundation requirements are prerequisites for registration in advanced graduate courses. A student with satisfactory academic experience in the foundation subjects need not take Foundation Requirements at UNF. A student whose educational experience does not include specific Foundation Requirements will be required to take appropriate foundation courses at UNF.
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## Directed Independent Studies

The intent of a Directed Independent Study is to allow a student to pursue a selected topic in greater depth, through research and writing, under the direction of a Coggin College of Business graduate faculty member. This type of course experience differs from required and regularly offered courses that usually involve classroom interaction and normally are not available as directed independent studies. No more than three (3) credit hours of directed independent studies may be counted toward graduation requirements. All directed independent studies require an institutional graduate GPA of 3.5 or better and prior approval by the instructor and the graduate program director.
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## Transfer of Graduate Credits from another College or University

A maximum of 6 credit hours of 6000 level course work may be transferred in from another college or university. Additionally, 6 credit hours may be waived if appropriate course work has been complete at another college or university. These credits must be from an AACSB accredited school or an appropriately accredited international college or university. The student must provide a syllabus from each class he or she requests to transfer. Only courses completed within seven years of completion of the UNF graduate degree program may transfer toward that program. A "B" or above grade is required to transfer a course. Courses are then evaluated for possible inclusion in a students program of study.

[^1]
## Policy on Multiple Concentrations

Graduate students pursuing an MBA degree in the Coggin College of Business who wish to pursue more than one concentration in their degree evaluation may do so. Students should contact their academic advisor and have a maximum of two concentrations incorporated into their degree evaluation. Students should not just assume that taking the courses required for the concentration will ensure that the concentration will be recorded in their academic record (degree evaluation and transcript). Students pursuing the MBA degree are not required to choose a concentration. Remember that all concentration courses must be a "B" or better at graduation.
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## Additional Policies and Procedures

This catalog does not encompass all policies and procedures for the graduate programs in the Coggin College of Business. Please see the MBA handbook or contact an academic advisor for clarification or additional information.


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# Graduate University Policies 

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. Readmission of Inactive Students
- Graduate Program Course Level
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- Second Masters Residency Requirement
- Graduate Program Independent Learning
- Credit Earned as a Post-Baccalaureate
- Graduate GPA Policy
- Satisfactory Academic Progress
- Dismissing a Student from a Graduate Program
- Graduate Dual International Degrees
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## Graduate Transfer

The residency requirement at UNF is 24 semester credit hours; 18 of which must be taken at the 6000 level. No student may earn a UNF graduate degree without 24 hours of UNF graduate course credit. It is also required that students earn a majority of credits toward their degrees at UNF.

Individual programs have particular requirements concerning transferring in credits; most graduate programs at UNF allow a student to transfer in approximately 20 percent of the overall graduate credits required for a degree (rounded up to the nearest number divisible by 3) from another regionally accredited institution, as allowable under the residency requirement and as approved on a course by course basis at the discretion of the appropriate graduate program director. Additional credits may be transferred in via special petition, subject to the approval of the appropriate graduate program director and the Graduate Dean. No student may transfer in more than 40 percent of the overall credits required for a degree.

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A student who transfers in more than 20 percent of the credits required for a degree may not apply any credits earned as a transient student (hours taken at another institution while the student is matriculating at UNF) toward fulfillment of that degree's requirements without prior approval of the appropriate graduate program director and the Graduate Dean. Students wishing to enroll in courses at another institution for the purpose of transferring credits into their graduate program of study must complete a "Concurrent Enrollment" form and have prior approval from the appropriate graduate program director.

Additional credit transfer conditions:

1. The student must have completed the course work subject to the time limits applicable to his or her current graduate program.
2. The student must have earned grades of 3.0 or higher in the courses.
3. The student is not entitled to apply transfer credits toward the 18 hour minimum of 6000 -level courses required for all master's degrees.
4. The student is not entitled to transfer credit for correspondence courses, courses included in a completed degree program, or portfolio-based experiential learning that has taken place prior to admission to the current graduate program.

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## Transient Student Admission

## Special Admission

Under certain circumstances students currently enrolled at other universities may enroll at UNF as "transient students" on a space available basis.

## Special Admission for Transient Students

A student in good standing at an approved institution may apply to UNF for one term to complete work; the credit for which will be transferred back to the student's home institution. Applicants must submit either an official transcript or a letter from their college or university's Registrar verifying their good standing. A transient enrollment form or other documentation may be required by the program in which the student seeks to take coursework.

## Special Admission for Inter-Institutional Transient Students

A student in good standing at a school participating with UNF in various exchange programs or exchange agreements may apply to UNF for one term, or for the duration of a special program, to complete work the credit for which will be transferred back to the home institution. The student must be sponsored by his or her academic dean, who is responsible for arranging with the UNF Registrar's Office and the appropriate college dean for the student's visit. The student will register at UNF and pay UNF tuition and registration fees. The process is the same for UNF students seeking to attend other institutions for a single term or for the duration of a special program. UNF students must have the support of their academic dean, who is responsible for arranging their visits. UNF students will register at and pay the tuition and fees of the institution they are visiting.
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## Readmission of Inactive Students

Students who have been accepted previously but who never enrolled or who have not taken courses for one year (three consecutive terms, including summers) must update their admissions applications with the Graduate School. They must do so at least six weeks before the beginning of the term in which they wish to enroll. They will be responsible for meeting any new general admissions requirements or program specific requirements.
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## Graduate Program Course Level

Eighteen (18) hours of any UNF graduate degree must be successfully completed at the 6000 level. All graduate and post-baccalaureate professional degree programs at the University of North Florida shall include only courses at the 5000 level and above. This does not include (1) pre-requisites, (2) minors, (3) teacher certification add-on programs, or (4) field-based coursework connected to

## Degree Completion within Six Years

All coursework for a graduate or post-baccalaureate professional degree must be completed within six years of a master's degree-seeking student being admitted to a graduate program. All coursework for a doctoral degree must be completed within eight years. All exceptions must be approved by the student's Graduate Program Director and the Dean of the Graduate School.
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## Second Masters Residency

For a second master's degree, at least 24 hours of UNF graduate coursework in residency is required. Coursework counted in the fulfillment of any other UNF degree requirements cannot be counted toward this second master's residency requirement.

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## Graduate Program Independent Learning

All graduate and post-baccalaureate professional degree programs at the University of North Florida include opportunities for students to participate in independent scholarly/research engagement and/or appropriate professional preparation experiences. These opportunities may be offered through traditional thesis or dissertation experiences, through culminating-experience projects, or through assignments embedded in particular courses in a program.
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## Credit Earned as Post-Baccalaureate

A student may apply up to 10 hours of graduate course work taken at UNF as a post-baccalaureate. (Such credits will be included in the student's UNF graduate GPA.) The student must receive the approval of the Program Director, who will then inform The Graduate School.

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## Graduate GPA Policy

The Graduate GPA includes all graduate credits taken once the student has been accepted as a degree-seeking graduate student. This includes all graduate credits, even before official admission to a graduate program, when those credits are used to fulfill degree requirements.

Graduate credits taken as a post-baccalaureate student, when those hours are not counted toward fulfillment of degree requirements, are not counted in the construction of the Graduate GPA. Undergraduate credits, no matter when they are taken, are not counted. Transfer credits are not counted, with the exception of joint international degree programs. All graduate credits from these programs are used to calculate the graduate GPA.
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## Satisfactory Academic Progress

## Good Academic Standing

A graduate student who has a cumulative UNF Graduate GPA of 3.0 or higher is considered to be in good academic standing.

A graduate student must have a cumulative UNF Graduate GPA of 3.0 or higher to be eligible for graduation and the award of a graduate degree.

Graduate students who hold assistanships and fellowships are expected to be in good academic
standing.

## Academic Probation

A graduate student who fails to maintain a cumulative UNF Graduate GPA of at least 3.0 will be considered not in good academic standing and will be placed on academic probation. Probation shall be noted on the academic transcript for each term in which the cumulative UNF Graduate GPA is below 3.0.

## Academic Suspension and Dismissal

1. If, while a graduate student is on probation, the cumulative UNF Graduate GPA does not reach 3.0 in the next academic term, the student is eligible for suspension or dismissal from the program.
2. If, while a graduate student is on probation, he or she earns a $D$ or $F$ in a graduate course in his or her program of study, the student is eligible for suspension or dismissal from the program.

The decision concerning whether the student is actually placed on academic suspension rests with the particular program's Graduate Program Director and/or the program's Graduate Program Committee (should the program have one).

Academic suspension is noted on the academic transcript. A graduate student may not register for courses while on academic suspension. The decision to release the student from academic suspension rests with the particular program's Graduate Program Director and/or Graduate Program Committee.

Decisions made by Graduate Program Directors and/or Graduate Program Committees may be appealed by graduate students; such appeals are made through the normal academic appeals process as specified in the Graduate Catalog and Student Handbook.

## Program-Specific Policies

Many programs have program-specific policies further defining good academic standing and related matters. These program-specific policies, if inclusive of higher standards than those of the university, supersede university policy. Please refer to individual program requirements for more information.

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## Dismissing a Student from a Graduate Program

When a student is being considered for dismissal from his/her graduate program, either at the end of a term or during a term, the Graduate Program Director and the Graduate Program Committee (should there be one) will:

1. ensure dismissal of a student from the program is supported by published policy;
2. inform the student, both through email and regular mail, of the matte;
3. offer the student an opportunity to meet with the Graduate Program Director to plead his/her case, if the decision to dismiss the student is to be made by the Graduate Program Director;
4. offer the student an opportunity to address a meeting of the Graduate Program Committee, if there is to be a Graduate Program Committee meeting for the purpose of deciding whether or not to dismiss the student;
5. inform the student of available appeal procedures and describe them, if it has been determined the student is to be dismissed from the program.

If any meetings occur, with or without a committee, the Graduate Program Director must write formal minutes. If no meetings occur, the Graduate Program Director will write a memorandum describing the decision-making process. Minutes of meetings, memoranda, and all appropriate supporting documentation, will be shared with the department chair, college dean, and the graduate dean.

If the student is dismissed from his/her graduate program, the student's transcript will bear an appropriate notation, and the student will receive no refund of tuition or fees.

## Graduate Dual International Degrees

Effective fall 2010, all dual graduate degrees offered through joint, cooperative, or collaborative academic arrangements between UNF and international institutions must meet the following requirements:

1. The minimum number of graduate credit hours required is 48 hours;
2. Students must earn a minimum of $50 \%$ of the total number of credit hours, including the international coursework, from UNF;
3. The graduate GPA includes all graduate credits taken as part of the degree including those from the international institution(s).
4. In an effort to provide accurate student transcripts, UNF will include course names and grades on the students' UNF transcritps for all degree-required, earned credit courses that are transferred into UNF as part of pre-approved international programs operating under collaborative academic arrangements. Courses listed will be printed under a header indicating that they are part of a university-approved program.

Any program approved prior to fall 2010 (GlobalMBA, Ibero-American MBA) is exempt from item 1 and 2 listed above.

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## Graduate Admissions

(1) The following are the minimum requirements for admission to graduate programs at the University of North Florida.
a. A baccalaureate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution with a grade point average of 3.00 (B) or higher in all work attempted as an upper-division student, normally the 60 semester hours taken during the last two years of baccalaureate study, or b. An earned graduate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution.
(2) Applicants who hold baccalaureate degrees from an international institution must submit a course-by-course degree evaluation from a UNF and NACES approved evaluation service or, on exception, a course-by-course evaluation performed by the University's International Center.
(3) Additionally, all applicants to master's programs must meet the following specific requirements:
a. Each master's program may determine other requirements for admission (e.g., standardized test scores, written essays, an interview), consistent with their mission and purpose. Any additional admissions requirements so imposed by masters programs must be approved by the Dean of the Graduate School and published annually in the Graduate Catalog and on the program website area of the Graduate School for the masters program; further, such requirements shall be reviewed and updated annually.
b. These requirements shall not include preferences in the admissions process for applicants on the basis of any category protected by law.
c. The submitted materials must be used in the context of a holistic credential review process.
(4) Additionally, all applicants to doctoral programs must meet the following specific requirements:
a. Each applicant to a doctoral degree program shall present standardized test scores that are acceptable for the program to which the student is applying.
Acceptable tests include the Graduate Record Examination (verbal, quantitative, and writing), the Miller's Analogies Test, or the GMAT, whichever is deemed most appropriate by the program. Students, including international students, who already have a graduate degree obtained from a regionally accredited institution in the same or in a related area are not required to take the standardized test unless it is required by the program.
b. Each doctoral program may determine other requirements for admission (e.g., letters of recommendation, a resume or a curriculum vita, a written essay, an interview) consistent with their mission and purpose. Any additional admissions requirements so imposed by doctoral programs must be approved by the Dean of the Graduate School and published annually in the Graduate Catalog and on the website area of the Graduate School for the program; further, such requirements shall be reviewed and updated annually.
c. The submitted materials must be used in the context of a holistic credential review process annually.
d. These requirements shall not include preferences in the admissions process for applicants on the basis of any category protected by law.
(5) The University may grant a limited number of exceptions to those applicants who do not meet the basic admission requirements. All applicants requesting an exception must submit GRE, GMAT, or MAT scores, as appropriate, prior to making the request. Students granted an exception will be placed in a provisional admission status for the graduate degree program that they wish to enter. Continuation as a graduate student will depend upon successful completion of provisional admission requirements and any subsequent work.
(6) Applicants from countries where the official language is other than English must achieve the minimum required test scores on the TOEFL or University of Cambridge IELTS as set by the University of North Florida.
(7) The following are required of all applicants:
a. Application for admission;
b. Non-refundable application fee in the amount set forth by the university;
c. Transcripts from each college attended, whether or not credits were earned;
d. Standardized Test Scores - only if required by the individual graduate program.
(8) Admission to graduate study is granted on an individual basis with a review of the entire academic record of the applicant, including quality of past performance, standardized test scores (if required), appropriateness of work taken, and suitable professional experience. To ensure that all pertinent application materials are received in time, applications for admission must be received by the published deadlines of the university and of the program to which the application is being made.
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## Graduate Certificate Programs

Credit bearing, graduate certificate programs are comprised of related courses that constitute a coherent body of study within a discipline. These programs must be approved through the university and faculty governance processes. Furthermore, these programs must establish student-learning outcomes and assess the extent to which students achieve these outcomes. This is done via the Graduate Academic Learning Compact (GALC). Additional information about the assessment of learning outcomes can be found in the GALC policy. GALC must be developed for all graduate certificate programs.

The number of graduate credits within a graduate certificate program cannot be less than 9 or more than one-half of the credits necessary for a related master's degree. Certificate programs approved prior to the implementation of this policy are exempt from these credit limitations.

Student pursuing a graduate certificate will be required to meet the same academic requirements as those defined for degree-seeking students to remain in "good standing."

All graduate certificate students must meet all prerequisites for courses in which they wish to enroll.

## Application of Credits towards Degree programs

When concurrently enrolled in a graduate degree program, and with the approval of the sponsoring college, students can apply required coursework to both the graduate certificate program and, if applicable, their chosen graduate degree program. Students cannot return for a retroactive certificate award following graduation. Students who have graduated from a degree program and wish to return to pursue a graduate certificate will need to apply to the Graduate School, and the specific certificate program, and pay a new application fee.

If a student later returns to UNF to earn a graduate degree, up to 12 hours of UNF credit earned as a graduate certificate student may be applied to satisfy graduate degree requirements. Any application of such credit must be approved by the graduate program and must be appropriate to the program. It should be noted that not all programs allow credit earned as part of a graduate certificate to be applied towards a similar graduate degree.

## Completion of program requirements

Students are subject to the individual requirements of the graduate certificate program and will need to complete at least fifty percent of the required coursework in residence at the university (e.g., face-to-face, distance learning). Successful completion of the graduate certificate program will be noted on the student's official transcript separately from his or her degree program.

The graduate certificate is not viewed as a guaranteed means of entry into a graduate degree program.

## Admissions to Graduate Certificate Programs

Currently enrolled UNF students who wish to pursue a graduate certificate program are required to apply through the graduate school and be accepted to the desired program in accordance with program-specific admissions criteria. No application fee is required.

1. All students applying for graduate level certificate programs will submit an application to The Graduate School.
2. The Graduate School will refer the application to the appropriate department for an admission decision.
3. Each program will develop its own admission criteria for certificate programs.
4. Acceptance to the graduate certificate program is dependent on student eligibility and, if required, departmental approval.

## Certificate and Transcripts

Once the program coursework is satisfied the student may be eligible to receive a document acknowledging completion that is separate from a diploma conferral. Printing and conferring all completion documents from university certificate programs will be the sole responsibility of the Registrar and the Office of Enrollment Services Processing. All materials required to print and package the completion documents will also be housed within the Enrollment Services Processing Office.

[^2]More on UNF Graduate Policies and Procedures.


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# Coggin College of Business Graduate Degree Requirements 

- Master of Accountancy Program
- Master of Business Administration Program
- GlobalMBA Program
- Global EntreprenuershipMBA Program


## Master of Accountancy Degree Program

The increasingly complex nature of the accounting and controllership functions, as well as the growing responsibilities of the accountant, makes graduate study desirable. Since 1978, the Coggin College of Business has provided a professionally oriented Master of Accountancy (MAcc) degree which enables career advancement in the accounting profession and the additional accounting coursework necessary to be licensed as a CPA under Florida accountancy laws. As evidence of the quality of the Master of Accountancy Program, the MAcc and the undergraduate BBA in Accounting Degree Programs are separately accredited by AACSB International-The Association to Advance Collegiate Schools of Business.

The objective of the curriculum leading to the Master of Accountancy (MAcc) degree is to provide the necessary advanced study for those seeking careers in professional accounting as controllers and accounting executives in industry and government, or as independent certified public accountants. Emphasis is given to how accountants relate theory to current problems, and how accountants communicate such information to the various users of accounting data. Students in the Master of Accountancy Program may pursue either the general accounting track or the tax concentration.

The program is designed to allow those who possess a recent baccalaureate degree from an AACSB accredited college, with an accounting major or its equivalent, to complete the MAcc in three or four semesters. Those who possess a baccalaureate degree in business administration or in some other discipline will be required to take foundation courses to remove any deficiencies before admission to the MAcc Program.

The objectives of the Master of Accountancy MACC program are:

1. To attract and retain students from diverse backgrounds with appropriate accounting undergraduate coursework and the abilities necessary for graduate study and subsequent success in the accounting profession.

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2. To provide students an opportunity to pursue concentrations in financial accounting or taxation.
3. To enhance analytical, team-building, and technological skills; written and oral communication skills; critical thinking, research and problem solving skills that are necessary for lifelong success in the accounting profession.
4. To explore contemporary issues relevant to the professional accounting and taxation environment.
5. To provide the additional education necessary for the successful completion of professional examinations and licensure.
6. To encourage students to become active in professional organizations in accounting and taxation.
7. To prepare students to enter quality doctoral programs.
8. To provide students the opportunity to work with faculty on research projects.
9. To provide students opportunities for international travel and study.

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## Master of Business Administration Degree Program

Cheryl S. Campbell, MBA Advisor - phone: (904) 620-1292
The mission of the Master of Business Administration MBA is to prepare students for positions of organizational leadership. The curriculum focuses on developing a general management perspective and in-depth knowledge of the various skills required to manage effectively in a rapidly changing and increasingly technical and global environment. This mission recognizes the need for graduates to demonstrate understanding of:

- how to construct and articulate one's point of view, and solicit that of others
- the increasingly technical, global, and ethically complex environment
- all major organizational functions and their interrelationships
- how to evaluate, develop, allocate, and manage an organization's resources
- how to improve organizational processes and decisions
- how to lead, collaborate, and apply knowledge in new, uncertain, and dynamic environments


## Students in the MBA degree program may choose one of the following concentrations:

- Accounting
- Construction Management
- e-Business
- Economics \& Geography
- Finance
- International Business
- Logistics
- Management Applications
- Sports Management
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## GlobalMBA Program

The GlobalMBA is a unique program providing graduate students the opportunity to combine intensive classroom study with residential experiences in four countries: Germany, Poland, China and the United States. The GlobalMBA is offered by a consortium of four outstanding universities:

- Cologne University of Applied Sciences (CUAS) in Cologne, Germany
- University of Warsaw (UW) in Warsaw, Poland
- Dongbei University of Finance and Economics (DUFE) in Dalian, China
- University of North Florida (UNF), in Jacksonville, FL, USA

At the end of the program students are eligible to earn 2 master's degrees:

- Master of Business Administration (M.B.A.) awarded by UNF (AACSB Accredited)
- Master of Arts (M.A.) in International Management and Intercultural Communication from CUAS \& UW

The GlobalMBA starts each fall semester. Each university selects a small group of students who function as a cohort throughout the GlobalMBA program. The cohort, of approximately forty students, studies together, spending one term at each institution. The curriculum includes courses in the international aspects of each business discipline, in addition to courses on intercultural communication and international business environment in each country. Business sustainability issues are examined both inside and outside the classroom throughout the program. All instruction is in English.

## Global EntreprenuershipMBA Program

The Global EntreprenuershipMBA is a cooperative, dual-master's degree program offered jointly by the European Business School (EBS) - Paris and the University of North Florida.

A limited number of students are able to participate in this program each year, typically a maximum of six from University of North Florida, a maximum of three from the European Business SchoolParis, and a maximum of three from the European Business School- London. Students complete 48 graduate credit hours - 12 at European Business School in Paris, 24 at the University of North Florida, and 12 at European Business School in London including a thesis.

All instruction is in English. Upon successful completion of the program requirements for both institutions, students earn a Grade Master delivered by the French Ministry for degree completion at European Business School-Paris (Master Degree in "Management of International Affairs").


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## Coggin College of Business Graduate Degrees

## Master of Accountancy Degree

- Accounting - Taxation Concentration, MACC
- Accounting, MACC


## Master of Business Administration Degree

- MBA


## Concentrations

- Accounting, MBA
- Construction Management, MBA
- e-Business, MBA
- Economics and Geography, MBA
- Finance Concentration, MBA
- International Business, MBA
- Logistics, MBA
- Management Applications, MBA
- Sports Management, MBA
(Note: All concentration courses must be completed with a grade of " B " or better.)


## Graduate Double Degree Programs

- GlobalMBA
- Global EnterprenuershipMBA


## Additional information on:

- Study Abroad Opportunities


## Study Abroad Opportunities

The Coggin College of Business also provides its graduate students with opportunities to experience first-hand the international aspects of business. Therefore, the College has set up student and faculty exchange agreements with institutions of higher learning throughout the world.

MBA students are permitted to spend one semester abroad at a Coggin College of Business (CCOB) exchange partner. Students wishing to spend more time abroad should consider the

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GlobalMBA or Global EntreprenuershipMBA programs. Students participating in these exchanges sign up for UNF courses and pay their usual tuition to UNF. Credits earned count in the student's degree program at UNF. Graduate students are reminded, however, that they must complete 24 hours of graduate-level classes on the UNF campus to receive a UNF graduate degree, with the exception of the GlobalMBA.

The Coggin College of Business also offers short-term, faculty-led study abroad courses for graduate credit. Typically, the College offers at least one such course during spring break or May break. These courses allow students to experience the culture and business practices of another nation directly, through lectures from university faculty, business visits, and discussions with social and political leaders. Finally, there are additional opportunities to spend 2-6 weeks at a Coggin exchange partner during the summer term.

An MBA student may use a maximum of ONE short-term study abroad course in his/her program where permitted.

See Coggin Study Abroad for detailed information about exchange and study abroad opportunities.

## Coggin College Policy on Use of International Academic Experiences in Graduate Programs of Study

The Coggin College of Business allows its students to use in their programs of study the following three types of international academic experiences:

1. Coggin-sponsored Faculty-led Study Abroad Courses, which include international travel and business visits as an integral part of a larger course that focuses on business issues.
2. Non-Coggin Faculty-led Study Abroad Courses (i.e., those sponsored by other UNF colleges), which include international travel as an integral part of a larger course that focuses on non-business issues.
3. Student Exchange Programs, which provide students with the opportunity to take courses at foreign institutions. MBA student exchanges are limited to one semester, unless participating in the GlobalMBA or the Global EntrepreneurshipMBA.

Use of International Experience Credits in Program of Study by Graduate Students: In all cases, the student and his/her advisor must agree in writing regarding how study abroad credits will be used before the student goes abroad.
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## Coggin College of Business Certificate Program

- e-Business Certificate


## Who should take the certificate in e-Business (CeB) program?

Any graduate or post-graduate business student wanting to update their skills by learning about these new and important business models. Additionally, any current graduate student seeking a practical elective in their MBA program might want to select courses from among the e-Business certificate program offerings. Each of the e-Business classes will count as a MBA elective. In addition, those graduates or post-graduates holding technical degrees might want to further develop their own career options with an e-Business certificate and perhaps ultimately the MBA.

The Certificate in e-Business (CeB) provides graduate students in business with a solid foundation in both the theory and strategy of a variety of e-Business issues. The purpose of the program is to offer student participants the requisite management skills for the new economy. As organizations compete more aggressively for e-Business savvy managers, there are significant career opportunities for those individuals skilled in this dynamic and evolving business practice. These activities represent a significant and escalating area of organizational spending. Despite the magnitude and importance of this business practice, practitioners frequently express dissatisfaction with the process, outcomes and the availability of individuals who are prepared to manage in this arena. This certificate prepares graduates as future economy participants to capitalize on this swiftly moving business model by offering a hybrid of cross-functional, Internet enhanced classroom learning experiences designed to provide exposure to the most important drivers of this emerging field.

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## Coggin College of Business Centers

Welcome to Coggin College Business Centers. These business \& research centers play a part in our faculties research and help support the local Jacksonville community with important economic, educational and business data.

## Bank of America Institute

The Bank of America Institute was created to furnish research and information regarding the integration, management, and deployment of technology to the financial services industry. The institute was made possible by a contribution from Bank of America, one of the Nation's largest financial services companies. It occupies a link between the Coggin College of Business and the College of Computing, Engineering and Construction. This link fosters interdisciplinary research by focusing faculty and student expertise from both colleges upon management and information technology issues relevant to the financial services industry.

## Center for International Business Studies (CIBS)

The Center for International Business Studies (CIBS) is the research arm of the International Business Flagship Program at the Coggin College of Business. The CIBS pursues academic and research activities that enhance and enrich the International Business Program. These activities include research conferences, visiting faculty members, seminars, and other research activities that foster the interaction of our faculty members and students with their colleagues at our partner universities. The CIBS promotes research in International Business for every discipline in the Coggin College of Business as well as interaction with the Business Community of Northeast Florida.

## Institute for Management, Development and Organizational Quality (IMDOQ)

The Coggin College of Business Institute for Management Development and Organizational Quality was established to provide technical expertise in the functional areas of business to organizations whose operations affect Northeast Florida. The Institute contracts to deliver direct educational programs, management consulting and facilitation services, applied organizational research, and quality process evaluation and development. The Institute brings together the various disciplines within the college and is central to the college's community outreach activities. All Institute programs are conducted by Coggin College of Business faculty members and are organization-specific in design. Whenever possible, the Institute enables both graduate and undergraduate students to gain practical experience by involving them in its activities.

## Local Economic Indicator Project (LEIP)

The Local Economic Indicator Project (LEIP) collects economic and business data not only from the local Jacksonville area, but also data for the State of Florida, the United States, and the world. These data allow LEIP to analyze price changes in order to measure inflation, adjust unemployment

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Jacksonville Business Journal
rates for seasonality, report stock price changes, and produce an index of leading indicators.

The Paper Institute (PAPER)
The Paper And Plastics Education Research (PAPER) Institute's mission is to encourage and support the University of North Florida Coggin College of Business faculty in their research, education, and development endeavors that integrate academic pursuits relevant to the National Paper Trade Alliance (NPTA) and its membership.

## Research Center in Economics and Geographic Information Systems

The Research Center in Economics and Geographical Information Systems is dedicated to providing high quality economic and geographic analysis to help businesses and government agencies in Northeast Florida improve their economic planning and forecasting. Its primary mission is to:

- Develop and create institutional relationships with the local community
- Foster community related research projects by providing an active link between the faculty research interests and community needs
- Conduct economic and geography related projects that are important to the Northeast Florida region
- Disseminate research results at the local, state and national levels


## Small Business Development Center (SBDC)

The Small Business Development Center (SBDC) assists potential and existing business owners by providing the management advice, training and information they need to start, grow, and profit. The SBDC at University of North Florida serves 18 counties from offices in Jacksonville, St. Augustine, Yulee, Palatka and Ocala and is part of the Florida SBDC Network and the national Association of Small Business Development Centers.

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## Major: Accounting <br> Degree: Bachelor of Business Admin.

```
Prerequisites (21 credits)
    21 semester hours are required. Grade of "C" or better is required in all prerequisites.
ACG2021 Prin of Financial Accounting (3 Credits)
                            Acceptable substitute: ACGX021, ACGX022 or (ACGX001 & ACGX011)
ACG2071 Prin Managerial Accounting (3 Credits)
            Acceptable substitute: ACGX071 or ACGX301
CGS1100 Computer Applications for Busi (3 Credits)
            Acceptable substitute: CGSX100, CGSX530, CGSX570, CGSX060, CGSX100C,
            CGSX518, CGSX531, CGSX000, or ISMX000 (or demonstrated competency)
ECO2013 Principles of Macroeconomics (3 Credits)
            Acceptable substitute: ECOX013
ECO2023 Principles of Microeconomics (3 Credits)
            Acceptable substitute: ECOX023
MAC2233 (GM)Calculus for Business (3 Credits)
    Acceptable substitute: MACX233 or MACX230
STA2023 (GM) Elem Statistics-Business (3 Credits)
    Acceptable substitute: STAX023, or STAX122 or QMBX100
```

Core Requirements (18 credits)
18 semester hours are required. A grade of "C" or better is required in all core courses.
MAN4720 is taken in a student's last semester. FIN3403, MAN3025, \& MAR3023 must be
completed Prior to taking MAN4720.
BUL3130 Legal Environment of Business (3 Credits)
FIN3403 Financial Management (3 Credits)
MAN3025 Administrative Management (3 Credits)
MAR3023 Principles of Marketing (3 Credits)
MAN3504 Operations Management (3 Credits)
MAN4720 Strategic Mgmt Business Policy (3 Credits)
You must pre-apply at www.unf.edu/coggin for MAN4720
Major Requirements (24 credits)

24 semester hours are required. Grade of " C " or better is required in all major courses. The department's one repeat rule applies to all of the major courses in accounting.

ACG3103 Intermediate Accounting I (3 Credits)
ACG3113 Intermediate Accounting II (3 Credits)
ACG3123 Intermediate Accounting III (3 Credits)
ACG4361 Cost Accounting (3 Credits)
ACG4401 Accounting Information Systems (3 Credits)
TAX3001 Federal Income Tax (3 Credits)
ACG4651 Auditing (3 Credits)
SELECT one elective course @ 3 credit
ACG or TAX (3000-4000 level) excluding TAX3721

Business Electives (6 credits)
6 semester hours required. A grade of " C " or better is required in all courses in this area.
SELECT 1 course from:
(3000-4000) BUL, ECO, FIN, MAN, MAR, RMI, TRA
SELECT one elective with 3 credits

ACG4251 International Accounting, FIN4604 International Finance, ECO3704
International Trade, MAN4600 International Management, or MAR4156 International Marketing

Required Business (6 credits)
6 semester hours are required. A grade of " C " or better is required for all courses in this area.
ECO3203 Intermediate Macroeconomics (3 Credits)
ECO3411 Business/Economic Statistics (3 Credits)

Non-Business Requirements (6 credits)
6 Semester hours are required. A grade of " C " or better is required for all courses in this area.
The Cultural Diversity course should be chosen from the list at:
http://www.unf.edu/coggin/advising/cultural_diversity.aspx
SPC4064 Public Speaking Professionals (3 Credits)
If you took Public Speaking at the lower level (1000-2000) You may substitute any upper level (3000-4000) elective for SPC4064.
AND one cultural diversity course

## Table of Contents

## Major: Finance

Degree: Bachelor of Business Admin.

## Prerequisites (21 credits)

21 semester hours are required. Grade of " C " or better is required in all prerequisites.
ACG2021 Prin of Financial Accounting (3 Credits)
Acceptable substitute: ACGX021, ACGX022 or (ACGX001 and ACGX011)
ACG2071 Prin Managerial Accounting (3 Credits)
Acceptable substitute: ACGX071 or ACGX301
CGS1100 Computer Applications for Busi (3 Credits)
Acceptable substitute: CGSX100, CGSX530, CGSX570, CGSX060, CGSX531, CGSX000, CGSX100C. CGSX518 or ISMX000 (or demonstrated competency)

ECO2013 Principles of Macroeconomics (3 Credits)
Acceptable substitute: ECOX013
ECO2023 Principles of Microeconomics (3 Credits)
Acceptable substitute: ECOX023
MAC2233 (GM)Calculus for Business (3 Credits)
Acceptable substitute: MACX233 or MACX230
STA2023 (GM) Elem Statistics-Business (3 Credits)
Acceptable substitute: STAX023, STAX122, or QMBX100

Core Requirements ( 18 credits)
21 semester hours are required. A grade of "C" of better is required in all core courses.
MAN4720 is taken in a student's last semester. FIN3403, MAN3025, \& MAR3023 must be completed prior to taking MAN4720.

BUL3130 Legal Environment of Business (3 Credits)
FIN3403 Financial Management (3 Credits)
MAN3025 Administrative Management (3 Credits)
MAR3023 Principles of Marketing (3 Credits)
MAN3504 Operations Management (3 Credits)
MAN4720 Strategic Mgmt Business Policy (3 Credits)

Major Requirements (12 credits)
12 semester hours required. Grade of " C " or better required for all courses in this area
FIN3303 Financial Institutions (3 Credits)
(formerly FIN3233)
FIN4504 Investments (3 Credits)
FIN4604 International Finance (3 Credits)
ISM4011 Intro Management Info Systems (3 Credits)

Electives (18 credits)
18 semester hours required. Grade of " C " or better required.
Finance electives can be selected from the courses listed below and from any additional 3000 and 4000 level classes that have FIN, REE, and RMI prefixes (except FIN3140) that are not listed below. (At least two electives must have a FIN prefix).

GENERAL Finance
Take any combination of the following prefixes totaling 18 credit hours: ( 6 credits must be in FIN)

- FIN (3000 to 4000 level)
- REE (3000 to 4000 level)
- RMI (3000 to 4000 level)
- ACG3103 Intermediate Accounting 1
- ACG4361 Cost Accounting

CORPORATE Financial Management

- FIN4414 Financial Management II
- ACG3103 Intermediate Accounting I
- ACG4361 Cost Accounting
- FIN4461 Financial Statement Analysis
- RMI4135 Employee Benefit Planning
- Plus one additional FIN, REE, or RMI elective


## INVESTMENT .

- FIN4514 Security Analysis/Portfolio Mgmt
- FIN4556 Behavioral Finance (formerly FIN4557)
- FIN4461 Financial Statement Analysis
- REE4043 Real Estate Analysis
- FIN4533 Derivatives
- Plus one additional FIN, REE, or RMI elective

REAL ESTATE

- REE4043 Real Estate Analysis
- REE4303 Real Estate Finance/Investment (generally offered in the spring term only)
- Plus two FIN electives
- Plus two FIN, REE, or RMI elective


## Required Business (6 credits)

6 semester hours are required. A grade of " C " or better is required for all courses in this area.
ECO3203 Intermediate Macroeconomics (3 Credits)
ECO3411 Business/Economic Statistics (3 Credits)

Non-Business Requirements (6 credits)
6 Semester hours are required. A grade of " C " or better is required for all courses in this area. The Cultural Diversity course should be chosen from the list at:
http://www.unf.edu/coggin/advising/cultural_diversity.aspx
SPC4064 Public Speaking Professionals (3 Credits)
If you took Public Speaking at the lower level (1000-2000) You may substitute any upper level (3000-4000) elective for SPC4064.
AND one cultural diversity course

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## Major: Financial Services <br> Concentration: Financial Planning <br> Degree: Bachelor of Business Admin.

## Prerequisites (21 credits)

21 semester hours are required. Grade of " C " or better is required for all prerequisites.
ACG2021 Prin of Financial Accounting (3 Credits)
Acceptable substitute: ACGX021, ACGX022 or (ACGX001 and ACGX011)
ACG2071 Prin Managerial Accounting (3 Credits)
Acceptable substitute: ACGX071 or ACGX301
CGS1100 Computer Applications for Busi (3 Credits)
Acceptable substitute: CGSX100, CGSX530, CGSX570, CGSX060, CGSX100C, CGSX531, CGSX000, or ISMX000 (or demonstrated competency)

ECO2013 Principles of Macroeconomics (3 Credits)
Acceptable substitute: ECOX013
ECO2023 Principles of Microeconomics (3 Credits)
Acceptable substitute: ECOX023
MAC2233 (GM)Calculus for Business (3 Credits)
Acceptable substitute: MACX233 or MACX230
STA2023 (GM) Elem Statistics-Business (3 Credits)
Acceptable substitute: STAX023, STAX122, or QMBX100

## Core Requirements (18 credits)

18 semester hours are required. A grade of "C" or better is required in all core courses.
MAN4720 is taken in a student's last semester. FIN3403, MAN3025, \& MAR3023 must be completed prior to taking MAN4720.

BUL3130 Legal Environment of Business (3 Credits)
FIN3403 Financial Management (3 Credits)
MAN3025 Administrative Management (3 Credits)
MAR3023 Principles of Marketing (3 Credits)
MAN3504 Operations Management (3 Credits)
MAN4720 Strategic Mgmt Business Policy (3 Credits)
You must pre-apply at www.unf.edu/coggin for MAN4720

Major Requirements (30 credits)
This program requires 30 hours in the major. A grade of " C " or better is required in all major courses. (There are no substitutions allowed for FIN3303, FIN4504, FIN4514, FIN4132, FIN4128, RMI3011, \& RMI4135.) (TAX3001 may be substituted for TAX3721)

FIN3303 Financial Institutions (3 Credits)
(formerly FIN3233)
FIN4504 Investments (3 Credits)
FIN4604 International Finance (3 Credits)
ISM4011 Intro Management Info Systems (3 Credits)
TAX3721 Tax Plan in Financial Decision (3 Credits)
FIN4514 Securities Analysis/Portf Mgmt (3 Credits)
RMI4135 Employee Benefit Plans (3 Credits)
(RMI4135 - to be taken in Spring semester)
RMI3011 Risk Management and Insurance (3 Credits)
Normally only offered in the Spring semester
FIN4132 Estate Planning (3 Credits)
Normally only offered in the Spring semester

Six semester hours are required. A grade of " C " or better is required for all courses in this area.
ECO3203 Intermediate Macroeconomics (3 Credits)
ECO3411 Business/Economic Statistics (3 Credits)

Non-Business Requirements (6 credits)
6 Semester hours are required. A grade of " C " or better is required for all courses in this area.
The Cultural Diversity course should be chosen from the list at:
http://www.unf.edu/coggin/advising/cultural_diversity.aspx
SPC4064 Public Speaking Professionals (3 Credits)
If you took Public Speaking at the lower level (1000-2000) You may substitute any upper level (3000-4000) elective for SPC4064.

AND one cultural diversity course

## Table of Contents

## Major: Economics

Degree: Bachelor of Business Admin.

## Prerequisites (21 credits)

21 semester hours are required. A grade " C " or better is required in all prerequisites.

```
ACG2021 Prin of Financial Accounting (3 Credits)
```

acceptable substitute: ACGX021
ACG2071 Prin Managerial Accounting (3 Credits)
acceptable substitute: ACGX071
CGS1100 Computer Applications for Busi (3 Credits)
acceptable substitute: CGSXXXX
ECO2013 Principles of Macroeconomics (3 Credits) acceptable substitute: ECOX013
ECO2023 Principles of Microeconomics (3 Credits) acceptable substitute: ECOX023

MAC2233 (GM)Calculus for Business (3 Credits) acceptable substitute: MACX233
STA2023 (GM) Elem Statistics-Business (3 Credits) acceptable substitute: STAX023

## Core Requirements (18 credits)

18 semester hours are required A grade of " C " or better is required in all core courses. MAN4720 is taken in a student's last semester. FIN3403, MAN3025, \& MAR3023 must be completed prior to taking MAN4720.

```
BUL3130 Legal Environment of Business (3 Credits)
FIN3403 Financial Management (3 Credits)
MAN3025 Administrative Management (3 Credits)
MAR3023 Principles of Marketing (3 Credits)
MAN3504 Operations Management (3 Credits)
MAN4720 Strategic Mgmt Business Policy (3 Credits)
            You must pre-apply at www.unf.edu/coggin for MAN4720
```

Major Requirements (24 credits)

24 semester hours are required. Grade of $C$ or better is required in all major courses. All economics majors are required to have an approved international educational experience. Examples of approved experiences include the following * Successful completion of an internship abroad * Successful participation in a Coggin-sponsored study abroad program * Successful participation in a student exchange program abroad * Studying another language abroad (must apply for passport in 1st semester of program)

```
ECO3203 Intermediate Macroeconomics (3 Credits)
ECO3101 Intermediate Microeconomics (3 Credits)
ECO3421 Econometrics (3 Credits)
ECO3411 Business/Economic Statistics (3 Credits)
SELECT One Course
    ECO 3704 International Trade or ECO 4713 International Monetary Systems
SELECT 3 Courses
        (3000-4000) LEVEL ECO/ECP/ECS/GEO (Excluding ECO3632, ECO3701,
        ECP3703)
```

Required Business (3 credits)

3 semester hours are required. A grade of " C " or better is required for all courses in this area.
a grade of " C " or better is required in all courses in this area.
SELECT One course
3000-4000 level with prefix:
ACG/BUL/FIN/GEB/ISM/MAN/MAR/QMB/REE/RMI/TAX/TRA

Non-Business Requirements (6 credits)
6 Semester hours are required. A grade of " C " or better is required for all courses in this area. The Cultural Diversity course should be chosen from the list at:
http://www.unf.edu/coggin/advising/cultural_diversity.aspx
SPC4064 Public Speaking Professionals (3 Credits)
If you took Public Speaking at the lower level (1000-2000) You may substitute any upper level (3000-4000) elective for SPC4064.

AND one cultural diversity course

Free Electives (6 credits)
Select 6 hours from any 3000-4000 level courses.
SELECT Six hours

International Educational Experience
All International Business \& Economics majors in the Coggin College of Business are required to have an international experience to graduate

- Beginning in Fall 2013 IB majors must complete a minimum of 4 weeks abroad.

EXPERIENCE International

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## Major: Business Management <br> Degree: Bachelor of Business Admin.

```
Prerequisites (21 credits)
    2 1 \text { semester hours are required. Grade of "C" or better is required in all prerequisites.}
ACG2021 Prin of Financial Accounting (3 Credits)
                            Acceptable Substitutes: ACGX021, ACGX022 or (ACGX001 & ACGX011)
ACG2071 Prin Managerial Accounting (3 Credits)
    Acceptable Substitute: (2-3 credit hours) ACGX071 or ACGX301
CGS1100 Computer Applications for Busi (3 Credits)
    Acceptable substitute: (3-4 credit hours) CGSX518, CGSX100, CGSX530, CGSX570,
    CGSX060, CGSX531, CGSX000, CGSX100C, or ISMX000 (or demonstrated
    competency)
ECO2013 Principles of Macroeconomics (3 Credits)
    Acceptable Substitute: ECOX013
ECO2023 Principles of Microeconomics (3 Credits)
    Acceptable substitute: ECOX023
MAC2233 (GM)Calculus for Business (3 Credits)
    Acceptable substitute: (3-4 credit hours) MACX233 or MACX230
STA2023 (GM) Elem Statistics-Business (3 Credits)
    Acceptable substitute: (3-4 credit hours) STAX023, STAX122, or QMBX100
```

Core Requirements (18 credits)

* 18 semester hours are required. * A grade of $C$ or better is required in all core courses. * MAN4720 is taken in a student's last semester. * FIN3403, MAN3025, \& MAR3023 must be completed prior to taking MAN4720. * To register for MAN4720 you must apply on-line at www.unf.edu/coggin approximately one month before registration in your final semester.

```
BUL3130 Legal Environment of Business (3 Credits)
FIN3403 Financial Management (3 Credits)
MAN3025 Administrative Management (3 Credits)
MAR3023 Principles of Marketing (3 Credits)
MAN3504 Operations Management (3 Credits)
MAN4720 Strategic Mgmt Business Policy (3 Credits)
```

Major Requirements (30 credits)
30 semester hours are required. Grade of " C " or better required in all major courses.
ISM4011 Intro Management Info Systems (3 Credits)
MAN4240 Organizational Behavior (3 Credits)
MAN4301 Human Resource Management (3 Credits)
MAN4550 Introduction to Mngmt Science (3 Credits)
MAN4583 Project Management (3 Credits)
MAN4600 International Management (3 Credits)
ECO3411 Business/Economic Statistics (3 Credits)
SELECT One Management Course
Another 4000 level Management course with a MAN prefix

- TRA4202 \&/or GEB4113 may be used as MAN electives.

SELECT Another Management Course
Another 4000 level Management course with a MAN prefix

- TRA4202 \&/or GEB4113 may be used as a MAN elective.

Business Electives (6 credits)
6 semester hours are required. A grade of " C " or better is required in all courses in this area.
SELECT one non-MAN business course
3000 or 4000 level course in:
ACG/BUL/ECO/ECP/ECS/FIN/GEB/GEO/MAR/REE/RMI/TAX/TRA/GIS (GEB4113 is
specifically excluded)
SELECT* another nonMAN business course
3000 or 4000 level courses in:
ACG/BUL/ECO/ECP/ECS/FIN/GEB/GEO/MAR/REE/RMI/TAX/TRA/GIS (GEB4113 is
specifically excluded)

Non-Business Requirements (6 credits)
6 Semester hours are required. A grade of " C " or better is required for all courses in this area. The Cultural Diversity course should be chosen from the list at:
http://www.unf.edu/coggin/advising/cultural_diversity.aspx
SPC4064 Public Speaking Professionals (3 Credits)
If you took Public Speaking at the lower level (1000-2000) You may substitute any upper level (3000-4000) elective for SPC4064.
AND one cultural diversity course

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## Major: Transportation and Logistics <br> Degree: Bachelor of Business Admin.

```
Prerequisites (21 credits)
    2 1 \text { semester hours are required. Grade of "C" or better is required in all prerequisites}
ACG2021 Prin of Financial Accounting (3 Credits)
                            Acceptable Substitute: ACGX021, ACGX022 or (ACGX001 & ACGX011)
ACG2071 Prin Managerial Accounting (3 Credits)
            Acceptable substitute: (2-3 credit hours) ACGX071 or ACGX301
CGS1100 Computer Applications for Busi (3 Credits)
            Acceptable substitute: (3-4 hours) CGSX100, CGSX530, CGSX570, CGSX060,
            CGSX531, CGSX000, CGSX100C or ISMX000 (or demonstrated competency)
ECO2013 Principles of Macroeconomics (3 Credits)
            Acceptable substitute: ECOX013
ECO2023 Principles of Microeconomics (3 Credits)
            Aceptable substitute: ECOX023
MAC2233 (GM)Calculus for Business (3 Credits)
    Acceptable substitute: (3-4 credit hours) MACX233 or MACX230
STA2023 (GM) Elem Statistics-Business (3 Credits)
    Acceptable substitute: (3-4 credit hours) STAX023, STA122, or QMBX100
Core Requirements (18 credits)
    2 1 ~ s e m e s t e r ~ h o u r s ~ a r e ~ r e q u i r e d . ~ A ~ g r a d e ~ o f ~ " C " ~ o r ~ b e t t e r ~ i s ~ r e q u i r e d ~ i n ~ a l l ~ c o r e ~ c o u r s e s .
    MAN4720 is taken in a student's last semester. FIN3403, MAN3025, & MAR3023 must be
    completed prior to taking MAN4720.
BUL3130 Legal Environment of Business (3 Credits)
FIN3403 Financial Management (3 Credits)
MAN3025 Administrative Management (3 Credits)
MAR3023 Principles of Marketing (3 Credits)
MAN3504 Operations Management (3 Credits)
MAN4720 Strategic Mgmt Business Policy (3 Credits)
            You must pre-apply at www.unf.edu/coggin for MAN4720.
```

Major Requirements (18 credits)

21 semester hours are required. Grade of $C$ or better is required in all major coursework. *TRA courses are generally not offered in the summer.* * TRA4202 must be taken prior to TRA4155.

```
ISM4011 Intro Management Info Systems (3 Credits)
MAN4550 Introduction to Mngmt Science (3 Credits)
TRA3035 Foundations of Transportation (3 Credits)
TRA4155 Supply Chain Management (3 Credits)
TRA4202 Logistics Systems Management (3 Credits)
TRA4210 Logistics Subsystems Analysis (3 Credits)
```

Major Electives (6 credits)

Grade of " C " or better required in major electives.
SELECT one Course
MAN4401 Labor Relations, MAR4461 Purchasing Management, TRA4139
Sem:Puchasing Materials Mgmt, TRA4721 International Logistics or TRA4945
Logistics Internship
SELECT one Course
ACG4361 Cost Accounting, GIS3043 Introduction to Geographic Information

Required Business (12 credits)
12 semester hours are required. (ECO3703/3704 can only be counted once)
ECO3411 Business/Economic Statistics (3 Credits)
CHOOSE Choose one course
MAN4600, MAR4156, FIN4604, or ECO3704 (formerly ECO3703)
SELECT select two
business course 3000-4000 level with the prefix of:
ACG/BUL/ECO/ECP/ECS/FIN/GEB/GEO/ ISM/MAN/MAR/QMB/REE/RMI/TAX
(except ECO3411)

Non-Business Requirements (6 credits)
6 Semester hours are required. A grade of " C " or better is required for all courses in this area.
The Cultural Diversity course should be chosen from the list at:
http://www.unf.edu/coggin/advising/cultural_diversity.aspx
SPC4064 Public Speaking Professionals (3 Credits)
If you took Public Speaking at the lower level (1000-2000) You may substitute any upper level (3000-4000) elective for SPC4064.

AND one cultural diversity course

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## Major: Marketing

Degree: Bachelor of Business Admin.

```
Prerequisites (21 credits)
    21 semester hours are required. Grade of "C" or better is required in all prerequisites.
ACG2021 Prin of Financial Accounting (3 Credits)
                            Acceptable substitute: ACGX021, ACGX022 or (ACGX001 & ACGX011)
ACG2071 Prin Managerial Accounting (3 Credits)
            Acceptable substitute: (2-3 credit hours) ACGX071 or ACGX301
CGS1100 Computer Applications for Busi (3 Credits)
            Acceptable substitute: (3-4 credit hours) CGSX518, CGSX100, CGSX530, CGSX570,
            CGSX060, CGSX531, CGSX000, CGSX100C or ISMX000 (or demonstrated
            competency)
ECO2013 Principles of Macroeconomics (3 Credits)
            Acceptable substitute: ECOX013
ECO2023 Principles of Microeconomics (3 Credits)
            Acceptable substitute: ECOX023
MAC2233 (GM)Calculus for Business (3 Credits)
    Acceptable substitute: (3-4 credit hours) MACX233 or MACX230
STA2023 (GM) Elem Statistics-Business (3 Credits)
            Acceptable substitute: (3-4 credit hours) STAX023, STAX122 or QMBX100
```

Core Requirements (18 credits)

18 semester hours are required. A grade of "C" or better is required in all core courses. MAN4720 is taken in a student's last semester. FIN3403, MAN3025, \& MAR3023 must be completed prior to taking MAB4720.

```
BUL3130 Legal Environment of Business (3 Credits)
FIN3403 Financial Management (3 Credits)
MAN3025 Administrative Management (3 Credits)
MAR3023 Principles of Marketing (3 Credits)
MAN3504 Operations Management (3 Credits)
MAN4720 Strategic Mgmt Business Policy (3 Credits)
        You must pre-apply at www.unf.edu/coggin for MAN4720
```

Major Requirements (18 credits)

18 semester hours are required. A grade of " C " or better is required in all major courses.

- Follow pre-requisites when registering for MAR4803... You must have completed MAR3023, MAR4503, MAR4613, \& MAR4156.

MAR4503 Consumer Behavior (3 Credits)
MAR4613 Marketing Research Information (3 Credits)
MAR4803 Strategic Marketing (3 Credits)
SELECT another Marketing Course
3000-4000 level Marketing course with a MAR prefix
SELECT another marketing elective
3000-4000 level Marketing course with a MAR prefix
SELECT another marketing elective
3000-4000 level Marketing course with a MAR prefix

## Required Business (18 credits)

A grade of " C " or better is required for all courses in this area.

SELECT 1 International Bus. Course
ACG4251 International Accounting, MAN4600 International Mgmt , MAR4156 International Marketing, TRA4721 International Logistics, FIN4604 International Finance, ECO3740 International Trade

SELECT One Course
(3000-4000) LEVEL ACG BUL ECO ECP ECS FIN GEB GEO MAN QMB REE RMI TAX TRA

SELECT One Course (3000-4000) LEVEL ACC BUL ECO ECP ECS FIN GEB GEO MAN QMB REE RMI TAX TRA

SELECT One quantitative course
Either ECO3411 or MAN4550 (formerly QMB4600) ECO3411 can only be used once in this program

Non-Business Requirements (6 credits)
6 Semester hours are required. A grade of " C " or better is required for all courses in this area The Cultural Diversity course should be chosen from the list at: http://www.unf.edu/coggin/advising/cultural_diversity.aspx

SPC4064 Public Speaking Professionals (3 Credits)
If you took Public Speaking at the lower level (1000-2000) You may substitute any upper level (3000-4000) elective for SPC4064.

AND one cultural diversity course

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## Major: International Business <br> Degree: Bachelor of Business Admin.

Prerequisites ( 21 credits)
21 semester hours are required. A grade of " C " or better is required in all prerequisites.
ACG2021 Prin of Financial Accounting (3 Credits)
Acceptable substitute: ACGX021, ACGX022 or (ACGX001 and ACGX011)
ACG2071 Prin Managerial Accounting (3 Credits)
Acceptable substitution: (2-3 credit hours) ACGX071 or ACGX301
CGS1100 Computer Applications for Busi (3 Credits)
Acceptable substitute: (3-4 credit hours) CGSX100, CGSX530, CGSX570, CGSX060, CGSX531, CGSX000, CGSX100C or ISMX000 (or demonstrated competency)

ECO2013 Principles of Macroeconomics (3 Credits)
Acceptable substitute: ECOX013
ECO2023 Principles of Microeconomics (3 Credits)
Acceptable substitute: ECOX023
MAC2233 (GM)Calculus for Business (3 Credits)
Acceptable substitute: (3-4 credit hours) MACX233 or MACX230
STA2023 (GM) Elem Statistics-Business (3 Credits)
Acceptable substitute: (3-4 credit hours) STAX023, STAX122 or QMBX100

Core Requirements ( 18 credits)
21 semester hours are required. A grade of "C" or better is required in all core courses.
MAN4720 is taken in a student's last semester. FIN3403, MAN3025, \& MAR3023 must be completed Prior to taking MAN4720.

- A Mandatory Workshop for IB majors is required. Date and times of these workshops are listed in your Career Wings account.

BUL3130 Legal Environment of Business (3 Credits)
FIN3403 Financial Management (3 Credits)
MAN3025 Administrative Management (3 Credits)
MAR3023 Principles of Marketing (3 Credits)
MAN3504 Operations Management (3 Credits)
MAN4720 Strategic Mgmt Business Policy (3 Credits)
You must pre-apply at www.unf.edu/coggin for MAN4720.

Major Requirements (12 credits)
12 semester hours are required **All International Business Majors are required to an approved internationl educational experience. Examples of approved experiences include the following:

- Successful completion of an internship abroad
- Successful participation in a Coggin-Sponsored semester abroad or "Coggin In..." summer program. (minimum of 4 weeks)
- Successful participation in a student exchange program abroad.
- studying another language abroad.

IB majors must appy for a passport in 1st semester. - Fulfill 6 or more credits of these requirements by studying abroad! (visit website for available programs:
www.unf.edu/coggin/abroad.) ** All International Business students are also required to complete the Star Certification program with the Coggin Career Management Center prior to starting the search for their mandatory internship.

ECO3704 International Trade (3 Credits)
FIN4604 International Finance (3 Credits)
MAN4600 International Management (3 Credits)

## Major Electives (6 credits)

(ECO3701 \& GEO3553 are specifically excluded) A grade of "C" or better is reguired in all courses in this area. - Fulfill 3-6 credits of this requirement by studying abroad ! Consider a semester abroad or our 4-week "Coggin In ... " summer programs (visit website for available programs www.unf.edu/coggin/abroad.)

SELECT 2 from list
ACG4251, ACG4956, BUL4322, ECO4713, ECO4956, ECS3013, ECS3403,
ECS3303, FIN4956,FRE3430, GEB4956, GEO3502, MAN4064, MAN4654,
MAN4956. MAR4956, SPN3013, TAX4901, TRA4721 OR TRA4956

Internships (3 credits)
Internship must be completed before final semester.
GEB3361 International Business Interns (1-20 Credits)
Requisites (6 credits)
Select two foreign language courses at the intermediate level or above. Both courses must be in the same language. A grade of " C " of better is required for all courses in this area.

SELECT* Intermediate I Foreign Lang.
Take three credit hours:
SPN2200/FRE2240/JPN2200/GER2200/CHI2200/POR2200/RUS2200
SELECT** Intermediate II Foreign Lang.
Take additional three credit hours of same Language:
SPN2201/FRE2241/JPN2201/GER2201/CHI2201/POR2201/RUS2201

Required Business (6 credits)
Six semester hours are required. A grade of " C " or better is required for all courses in this area.
ISM4011 Intro Management Info Systems (3 Credits)
SELECT Select one course
ECO3411 or MAN4550 (Formerly QMB4900)

Non-Business Requirements (3 credits)
SPC4064 Public Speaking Professionals (3 Credits)
If you took Public Speaking at the lower level (1000-2000) you may take any upper level (3000-4000) elective to replace SPC4064.

Non-Business Requirements (6 credits)
Select two courses (six hours) from one of the seven regional studies areas. One of the courses must satisfy the Coggin College of Business cultural diversity requirement.
http://www.unf.edu/coggin/services/regional_studies.html - Fulfill 3-6 credits of this requirement by studying abroad! Consider a semester abroad or our 4-week "Coggin In .... " summer programs (visit website for available programs: www.unf.edu/coggin/abroad.)

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ASIAN Studies option
EUROPEAN Studies
LATIN AMER Studies Option
MID EAST & African Studies option
INTER REL International Relations Option
FRENCH LAN French Language Option
SPANISH Language Option
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International Educational Experience
All International Business \& Economics majors in the Coggin College of Business are required to have an international experience to graduate

- Beginning in Fall 2013 IB majors must complete a minimum of 4 weeks abroad.



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## College of Arts and Sciences Overview

Location: Building 51, Room 3301
Phone: (904) 620-2560
Web Address: www.unf.edu/coas/

## Dean's Office

Barbara Hetrick, Dean
David Fenner, Associate Dean
Sam Kimball, Associate Dean
Beth Clements, Assistant to the Dean
Allison Turner, Coordinator of Academic Services
Karla Calliste-Edgar, Administrative Assistant
Chellie Jones-Harris, Office Manager
Leigh Palmer, Director of Development

## Mission

The mission of the College of Arts and Sciences is:

- to provide learning opportunities of the highest quality to our students, both undergraduate and graduate, to develop their capabilities as critical and reflective thinkers, and to offer each occasions for transformative learning;
- to promote faculty engagement in pursuit and production of disciplinary significant and high quality scholarship - discovered and applied, global and local;
- to offer undergraduate and graduate programs that contribute to the successful achievement of our students' ambitions, are responsive to and engaged with the communities of which the university is a part, and continue the tradition of an excellent liberal arts education;
- to dedicate the college's full range of resources to these goals.


## Undergraduate Programs

The College of Arts and Sciences is the bedrock of the University of North Florida just as the liberal arts curriculum is at the very center of the University's mission. What students acquire through their engagement with the liberal arts is a sense of their place within the universe, whether that universe is defined in physical, social, moral, or aesthetic terms. It is for this reason that general education, provided largely by the College of Arts and Sciences, remains to this day the foundation for all further University study; and it is why premier graduate and professional schools continue to give admissions preference to students who choose to major in one of the liberal arts even if they intend to pursue advanced study in a technical or professional field.

The curriculum of the College of Arts and Science is rich and deep. In the complex world of the 21st

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century, a grounding in the liberal arts is more urgent than ever as we encounter at an ever faster pace challenges to our experience and understanding that we could not have anticipated a short while ago.

## Graduate Programs

The College of Arts and Sciences has eight graduate programs among its educational offerings. Masters degrees are offered in Biology, Criminal Justice, English, History, Mathematics/Statistics, Public Administration, Philosophy, and Psychology (two degrees are offered in Biology). Given the mission of the University, many of these degrees are focused on the applied and practical; they are constructed to serve graduate students who seek to attain the advanced education necessary for securing high-quality employment or advancement. Many of our graduates occupy positions of leadership within the City of Jacksonville, regional industry, and UNF itself. Students seeking master's degrees at UNF have also been very successful when they subsequently choose to pursue doctoral programs at other institutions. The College of Arts and Sciences has some of the most venerable and well established graduate programs in the University, and we take great pride in helping our graduate students meet their personal and professional aspirations.


## College of Arts and Sciences

## Contact Information

Location: Building 51, Room 3301
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Web Address: www.unf.edu/coas/

## Mailing Address:

University of North Florida
College of Arts and Sciences
1 UNF Drive, Building 51
Jacksonville, Florida 32224-7699

## Dean's Office

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David Fenner, Associate Dean
A. Samuel Kimball, Associate Dean

Beth Clements, Assistant to the Dean
Allison Turner, Coordinator of Academic Services
Karla Calliste-Edgar, Administrative Assistant
Chellie Jones-Harris, Office Manager
Leigh Palmer, Director of Development

Location: Building 51, Suite 3301
Phone: 904.620.2560
Fax: (904) 620-2929

Academic Advising
Location: Building 51, Room 2500
Phone: (904) 620-2797
Fax: (904) 620-2799
Department of Art and Design
Location: Building 45, Room 2022
Phone: (904) 620-4037
Fax: (904) 620-4038

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```
Department of Biology
Location: Building 59, Room }130
Phone: (904) 620-2830
Fax: (904) 620-3885
Department of Chemistry
Location: Building 50, Room }350
Phone: (904) 620-3504
Fax: (904) 620-3535
Department of Communication
Location: Building 14, Room }200
Phone: (904) 620-2651
Fax: (904) 620-2652
Department of Criminology and Criminal Justice
Location: Building 51, Room }231
Phone: (904) 620-1724
Fax: (904) 620-1718
Department of English
Location: Building 8, Room 2601
Phone: (904) 620-2273
Fax: (904) 620-3940
Department of History
Location: Building 9, Room }250
Phone: (904) 620-2886
Fax: (904) 620-1018
International Studies Program
Location: Building 51, Room }210
Phone: (904) 620-1931
Fax: (904) 620-2979
Department of Languages, Literatures and Cultures
Location: Building 10, Room }242
Phone: (904) 620-2282
Fax: (904) 620-2288
Department of Mathematics and Statistics
Location: Building 14, Room }273
Phone: (904) 620-2653
Fax: (904) 620-2818
Department of Music
Location: Building 45, Room 2004
Phone: (904) 620-2960
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Department of Philosophy and Religious Studies
Location: Building 10, Room 2325
Phone: (904) 620-1330
Fax: (904) 620-1840

Department of Physics
Location: Building 50, Room 2600
Phone: (904) 620-2729
Fax: (904) 620-1989

Department of Political Science and Public Administration
Location: Building 51, Room 2414
Phone: (904) 620-2997
Fax: (904) 620-2979

Department of Psychology
Location: Building 51, Room 3404
Phone: (904) 620-2807
Fax: (904) 620-2540

Department of Sociology and Anthropology
Location: Building 51, Room 2304
Phone: (904) 620-2850
Fax: (904) 620-2540


## College of Arts and Sciences Undergraduate Academic Policies

- Degree Evaluation and Dean's Hold
- Transfer Hours
- Credit Validation for Course Work Completed More Than Ten Years Ago
- Admissions from a Non-Degree or Special Student Status for COAS Majors
- Students Admitted with less than 2.0 Grade Point Average
- Completion of General Education before Senior Year
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- Foreign Language/Foreign Culture Policy
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- Double Majors within the College of Arts and Sciences
- Simultaneous/Dual Degrees Across Colleges
- Students Pursuing Both the Bachelor of Arts in Art (All Concentrations) and the Bachelor of Fine Arts (All Concentrations)
- Concurrent Enrollment and Transient Enrollment
- CLEP Credit
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## Degree Evaluation and Dean's Hold

Upon receiving the letter of transfer admissions to UNF or upon earning 60 credit hours as a lower division UNF native student, all students must arrange to meet with an academic advisor to obtain a Degree Evaluation. Students who fail to meet with an academic advisor by the end of the first semester at UNF or at the end of the first semester of junior standing are placed on "Dean's Hold" preventing future registration until the Degree Evaluation is on file in the Advising Office.

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## Transfer Hours

The College of Arts and Sciences will only accept the transfer of upper-level courses from regionally accredited institutions, and only with the prior approval of the appropriate Department Chair. Students must provide a syllabus for each individual course; the Department Chair will decide, based on a review of learning outcomes, if the standards of equivalency have been met. All courses approved for transfer must have a grade of "C" or better (unless higher grades are specified by the academic major). Transfer is limited to 6 credit hours or 2 courses within the major (this includes all core, major requirements and major electives found on your degree evaluation) unless from an approved study abroad program or unless the Department Chair seeks a policy exception. For additional information please contact your Academic Advisor.

## Credit Validation for Course Work Completed more than Ten Years Ago

The College of Arts and Sciences requires that a student who has taken courses for his/her major more than ten years prior to the completion of a baccalaureate degree program must petition the chair of his/her major department to validate these courses before Academic Advising will apply them toward the student's fulfillment of degree requirements. (In some cases, departments may require students to petition for validation of courses -- such as those in the natural sciences, languages, music, or art-- that are more than three years old. A placement exam may also be given to determine level of knowledge.) This policy applies to courses taken at UNF and elsewhere; all transfer courses always go to the major department chair for approval in the form of a course syllabus, but those that were taken more than ten years prior to the completion of the degree must be re-approved by the department chair.

## Admissions from a Non-Degree or Special Student Status for COAS Majors

Students seeking a bachelor's degree from the College of Arts and Sciences should meet all admission deadlines and policies to enroll as degree-seeking students. Students who are permitted to register as non-degree/non-admitted students or special students (see Admissions section of catalog for policies and procedures) may apply to degree seeking status after one semester. No more than 12 credit hours (or one semester) earned as a non-degree/non-admitted student or special student may be transferred to an undergraduate degree program in the College of Arts and Sciences.
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## Students Admitted with less than 2.0 Grade Point Average

Students given special admissions to major in the College of Arts and Sciences with a GPA below 2.0 are automatically placed on academic probation. Conditions for probation are outlined by the Chairperson for the major department and must be satisfied by the end of the first semester as a major in the College to avoid suspension.
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## Completion of General Education before Senior Year

The College of Arts and Sciences will require native and transfer students to complete ALL general education deficiencies before earning 90 overall hours, including transfer hours. Students are informed of general education deficiencies upon meeting with an advisor. Students who defer completion of general education may be placed on hold until their deficiencies have been satisfied.
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First Day Attendance Policy

Students must attend the first day of each enrolled class during any given semester. All academic departments in the College of Arts and Sciences have the right to administratively withdraw any student who fails to attend the first day of class or who fails to notify the academic department chairperson in advance if a class is to be missed.
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## Cultural Diversity Policy

Cultural diversity course offerings are listed each semester in the online schedule. Culture diversity courses (unless indicated with a "FC" prefix) may not satisfy the College of Arts \& Sciences Foreign Culture requirement.

## Foreign Language/Foreign Culture Requirement for Bachelor of Arts Majors

Before being certified to graduate, all Bachelor of Arts majors in the College of Arts and Sciences must complete the Foreign Language/Foreign Culture requirement. Students who have completed two years of a foreign language in high school are still required to complete the Arts and Sciences Foreign Language/Foreign Culture requirement.
Students may complete this requirement by choosing one of the following options. All courses must be completed with grades of "C" or above.

1. Study of a Foreign Language

Eight semester hours of a sequential foreign language at the introductory level -or -
2. Demonstrated proficiency in a foreign language equivalent to at least 8 semester hours at the introductory level. Students may prove proficiency in a foreign language through successful scores on the foreign language area of the College-Level Examination Program (CLEP). To prove proficiency in a heritage language other than English, students must submit a valid high school academic transcript from their home country.
-or-
3. Students who have completed two years of a foreign language in high school are still required to complete the Arts and Sciences Foreign Language/Foreign Culture requirement. Incoming students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or above (Students who place beyond the beginning level in French, Spanish or Chinese may be eligible for retroactive credit as per the department retroactive credit policy.
-or-
4. Study of 6 semester hours of foreign culture courses that have the FC designation in the course title. A list of foreign culture courses is available each semester in the Advising Office, Building 51, Room 2500.
-or-
5. Eight semester hours of American Sign Language.
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## Double Counting Foreign Culture Courses

Courses may be taken to fulfill both a foreign culture requirement and towards the major or minor requirements. Students minoring in International Studies may only double count one foreign culture course. Cultural diversity courses may not double count to satisfy the Foreign Culture requirement. A list of approved Foreign Culture courses are found in the College of Arts \& Sciences Advising Office each semester. Grades of "C" or above required in all foreign culture courses.

## What is a Foreign Culture Course?

The common goal of both foreign language and foreign culture courses is that students begin to think from a point of view beyond that of their own culture. In gaining an appreciation of the many
ways humans live together, adapt to their environment, and express their values and aspirations, we also develop new insight into our own culture. The study of foreign languages gives us the key to another culture. Fluency provides direct access to the cultural, intellectual, technical and economic heritage of peoples beyond our own small circles. Foreign culture courses explore one or several cultures in depth, including the perspective of the people themselves. These courses are interdisciplinary in that culture is interpreted broadly - with aspects ranging from the economic to the religious - and emphasizing the culture's internal diversity. Students will have the opportunity to compare other cultures to their own.
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## Double Majors within the College of Arts and Sciences

At the discretion of individual departments, specific courses may double count to satisfy requirements for either degree. The number of courses that can double count may be limited for interdisciplinary majors such as International Studies.

1. All double majors must complete the foreign language/foreign culture requirement, prerequisites, major requirements, major electives, capstone/internship requirements (if applicable) and any outstanding general education requirements for both majors with grades of "C" or above (or whatever grade policy either major specifies).
2. Double majors do not have to complete a minor.
3. A minimum of 120 overall credit hours must be completed (at least 48 hours must be upper level.)
4. Once the degree has been awarded in the double majors, subsequent course work cannot be added to create a second degree as a post-baccalaureate or master's student.
5. Double majors must be declared by visiting the Academic Advising Office in Building 51, Room 2500.

## Simultaneous/Dual Degrees Across Colleges

Students in the College of Arts and Sciences may pursue two simultaneous/dual undergraduate degrees across colleges if the second college agrees to the arrangement. A simultaneous or dual degree student is defined as one who completes requirements for two different degrees simultaneously whether in the same college or across colleges, i.e. earning a B.F.A. degree while also earning a B.A. degree, etc.

Note: The College of Education and Human Services will not allow simultaneous/dual majors in any education major. Requirements for the simultaneous/dual degree are as follows:

1. Students must complete all requirements for both degrees with grades of " $C$ " or above (or whatever grade point average is required for both simultaneous/dual majors). Students do not need to fulfill the required minor when pursuing a dual degree, if a minor was required of their COAS degree.
2. All specific graduation requirements for both majors must be completed, including the foreign language/foreign culture requirement, any internships, prerequisites, etc.
3. At the discretion of individual departments, specific courses may double count to satisfy requirements for either degree. The number of courses that can double count may be limited for interdisciplinary majors such as International Studies.
4. The simultaneous/dual major must be declared by visiting the Academic Advising Office in Building 51, Room 2500.
5. Students must meet with both academic advisors to obtain Degree Evaluations for both simultaneous/dual majors.

Note: Declared simultaneous/dual majors who decide to return to a single undergraduate major cannot later use the courses taken for the second major towards completion of a post-baccalaureate or master's degree once the first undergraduate degree has been awarded.

Art concentrations are only specialties within the major. Students MAY NOT enroll in more than one B.A. in Art or B.F.A. in Fine Arts concentration. Instead, students may complete the B.A. in one major while simultaneously completing the B.F.A. in the other major. Students needing more clarification about this policy should consult their academic advisor. Students should be aware that all areas of the major, including the minor, contextual and the foreign language/foreign culture requirement required in the B.A. degree, must be completed with grades of " $C$ " or above. Courses may not double count towards completion of either major or minor. Individual courses are needed for each requirement.
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## Concurrent Enrollment and Transient Enrollment

Students planning to enroll in courses in transient at another State of Florida public university, community college or college must complete the Transient Form through www.flvc.org. Students must first set up a pin number in order to access www.flvc.org. A pin number may be requested through the Facts Pin Management system found in Student Self-Service through myWings. A final official transcript must be forwarded to One Stop Student Services upon completion of all transient courses. Enrollment at a private or out-of-state university or college will require completion of the hard copy UNF Concurrent Enrollment form prior to enrolling in the transfer course. Only courses which are degree applicable can be approved.

Students may NOT take courses at another institution in their final semester at UNF. This includes online, distance learning, correspondence courses and CLEP examinations. Students who risk taking courses during their final semester will need to provide official transcripts to One Stop Student Services by the last date of the semester. Students whose transcripts are not received by the deadline published for the semester of graduation will not be granted an extension of the deadline and must reapply for the next term's graduation.
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## CLEP Credit

Students desiring to satisfy general education, prerequisite requirements or other acceptable lower level requirements using the College Level Examination Program (CLEP) must obtain the approval of their-academic advisor. Students should be aware that the CLEP does not award upper level credit.
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## Prerequisites and Corequisites

(Prerequisite $=$ taken before; corequisite $=$ taken at the same time.) Students must complete all prerequisites required for individual courses and major programs. All prerequisites require grades of "C" or above. Faculty have discretionary authority to dismiss any student from a course who has not completed necessary course prerequisites. Fees will not be refunded for dismissal from a course by an instructor due to lack of required prerequisites or corequisites unless it occurs during the week of Drop/Add.
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## Incomplete Grades

Faculty in the College of Arts and Sciences are not required to give incomplete ("I") grades. If an "I" is assigned, a substantial portion of the course work must have been completed with a passing grade. The time limit to remove an " $I$ " grade is determined by the faculty but cannot exceed one academic year or graduation, whichever comes first. After the allotted time has run out, all incomplete grades turn to "F's" which are calculated in the cumulative grade point average. Students may not re-register for any course in which an incomplete grade was received but must arrange to participate in the course by approval of the faculty teaching the course in which the "I" was received. Students may not graduate with outstanding "I" grades whether or not the course is needed for

## Overload Policy

Students who desire to register for 21 or more credit hours during any term will need electronic overload approval from the College of Arts and Sciences Dean's Office via a Waiver of University Policy. A cumulative UNF GPA of 3.0 or above will be required before overload approval is granted.
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## Change of Major

Students interested in changing to a major in the College of Arts and Sciences must first possess a 2.0 cumulative GPA. Students should review the UNF catalog to determine major options and the requirements for any majors of interest. Undecided students should arrange to meet with a Career Counselor in the Office of Career Services to explore major and career options. Majors may also be explored on-line at www.unf.edu/dept/cdc. Once the major is decided, you will need to meet with your academic advisor to submit an official change of major request.
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## Declaration of Concentrations and Minors

Majors in Art, Biology, Chemistry, Communication, Fine Arts, International Studies, Music, Philosophy, Physics and Political Science must declare a concentration (see list of concentrations in the department section). Students pursuing a Bachelor of Arts degree must declare a minor selected from the approved list of minors. Concentrations and minors may be officially declared by meeting with an academic advisor. Students may declare multiple minors with approval of their advisor but may not declare multiple concentrations.
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## Suspension Policy

Students who do not satisfy the conditions of academic probation may be placed on a first academic suspension for a period of one academic semester. Release from suspension will require the approval of the department chairperson after a mandatory meeting with the College's Suspension Review Committee. The Suspension Review Committee will make a recommendation to the department chairperson on whether to continue probation or reinstate suspension. Students continued on probation will need to arrange an advising session with an Academic Advisor to obtain an updated Degree Evaluation. However, the Department chairperson has the option to deny readmissions to the major if the GPA is too low.

Students who receive a second academic suspension action may not be eligible to take courses for a period of two semesters. A third academic suspension action results in a year's suspension. A year's academic suspension will break UNF's "continuous enrollment" policy and will require readmissions to UNF through One Stop Student Services. Students who attempt to return to UNF after being suspended for a year will require review by the academic department and are not guaranteed re-admissions to the major.

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## Former Students Returning Not in Good Standing

Former students not in good standing must file a request for re-admissions in One Stop Student Services 10 weeks prior to the deadline for re-admissions for the term they wish to enroll.

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## Graduation

In order to qualify for graduation, undergraduate students must earn a minimum of 120 credit hours
with at least 48 upper hours. All applicable Gordon Rule, prerequisite, requisite, general education, major, minor, contextual, capstone/internships (if applicable), and foreign language/foreign culture requirements (if applicable), must be completed with grades of " C " or above. Post-Baccalaureate students must earn a minimum of 30 upper level hours and complete all prerequisites, major requirements, major electives, and capstone/internship requirements (if applicable) with grades of " C " or above.

The application for graduation must be filed with One Stop Student Services preferably by the first week of classes during the final semester. The deadline for graduation application is available online through myWings.

Arts and Sciences majors may not take courses at other institutions during the semester of graduation. Special exceptions, such as relocation of students who are subject to military obligations, may be reviewed by petition by the Arts and Sciences Dean's Office. All final official transcripts must be received and processed in One Stop Student Services prior to the final day of the semester of graduation. If official transcripts are not received by the deadline, students must reapply for the following term of graduation.


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## Requirements for the Bachelor's Degree

A minimum of 120 credit hours is required for the bachelor's degree. A minimum of 48 upper level credit hours is required to qualify for the undergraduate bachelor's degree.

Students pursuing a bachelor's degree as a post-baccalaureate must complete a minimum of 30 upper level hours and all hours required to complete the degree. All prerequisites, core requirements, major requirements, major electives and contextuals (if any) must be completed to qualify for the degree. Any prerequisites required for the program or for individual courses are not included in the minimum 30 upper level semester hour requirement. Courses completed in any previous degree will not satisfy credit hours needed to complete the post-baccalaureate degree (a minimum of 30 upper level hours will still be required).

## The Bachelor of Arts Degree

All Bachelor of Arts degree students must complete both a major and a minor and satisfy the college's foreign language/foreign culture requirement. The major must include at least 24 upperlevel credit hours.

## The Bachelor of Fine Arts Degree

All Bachelor of Fine Arts degree students must complete all prerequisites and major requirements with a focus on developing artisitc awareness, studio competence and historic and philosophical perspective.

## The Bachelor of Music Degree

All Bachelor of Music degree students must complete all prerequisites and major requirements with concentrations in Jazz Studies and Performance.

## The Bachelor of Music Education Degree

All Bachelor of Music Education degree students must complete all prerequisites and major requirements for a total of 133 semester hours and a minimum GPA of 2.5. Admission into Music Education also requires a minimum of 60 semester hours or a state of Florida AA degree with a grade point average of 2.50 or better and passing scores on all four parts of the General Knowledge (GK) test of the Florida Teacher Certification Examination. Passing the Professional Education Test (PEd) and the Subject Area Examination (SAE) in Music K-12 of the Florida Teacher Certification Examination (FTCE) is required for the completion of internship and graduation

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## The Bachelor of Science Degree

A BS degree requires a combined total of prerequisites and major credits in excess of 45 credit hours on a programmatic focus of theoretical, empirical, or applied research or practice. The College of Arts \& Sciences offers the Bachelor of Science degree in Biology, Chemistry, Communication, Mathematics, Physics, Psychology and Statistics.


## College of Arts and Sciences Undergraduate Majors

- Anthropology, BA
- Art - Ceramics, BA
- Art - Painting, Drawing, Printmaking, BA
- Art - Sculpture, BA
- Art History, BA
- Biology - Biomedical Sciences, BS
- Biology - Coastal Biology, BS
- Biology - Coastal Environmental Science, BS
- Biology - Ecology and Evolution Biology, BS
- Biology - Medical Laboratory Sciences, BS
- Biology - Molecular/Cell Bio. \& Biotech, BS
- Chemistry - Materials Chemistry, BS
- Chemistry - Pre-Medical Professions, BS
- Chemistry, BS
- Communication - Advertising, BS
- Communication - Multimedia Journalism \& Production, BS
- Communication - Public Relations, BS
- Criminal Justice, BA
- Economics, BA
- English - Theater/Drama, BA
- English, BA
- Fine Arts - Ceramics, BFA
- Fine Arts - Graphic Design \& Digital Media, BFA
- Fine Arts - Painting, Drawing, Printmaking, BFA
- Fine Arts - Photography, BFA
- Fine Arts - Sculpture, BFA
- French Studies, BA
- History, BA
- Interdisciplinary Studies, BA
- International Studies - Asian Studies, BA
- International Studies - European Studies, BA
- International Studies - Foreign Language \& Culture, BA
- International Studies - Intl Relations \& Politics, BA
- International Studies - Latin American Studies, BA
- International Studies - Middle East-African Studies, BA
- Mathematics - Discrete Analysis, BS
- Mathematics, BA

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- Music Education, BME
- Music Jazz Studies, BM
- Music Performance - Music-Classical Piano, BM
- Music Performance - Music-Classical Voice, BM
- Music Performance - Music-Harp, BM
- Music Performance - Music-Strings, BM
- Music Performance - Music-Woodwinds, Brass, Percussion, BM
- Music Performance - Piano Performance and Pedagogy, BM
- Philosophy - General Philosophical Studies, BA
- Philosophy - Historical \& Comparative Studies, BA
- Philosophy - Legal-Political-Social Studies, BA
- Philosophy - Literary \& Cultural Studies, BA
- Philosophy - Philosophy Advanced Studies, BA
- Philosophy - Studies in Applied Ethics, BA
- Physics - Astrophysics, BS
- Physics - Civil Engineering, BS
- Physics - Computing Emphasis, BS
- Physics - Electrical Engineering, BS
- Physics - Materials Science, BS
- Physics - Mechanical Engineering, BS
- Physics - Pre-Medical Physics, BS
- Physics, BS
- Political Science - American Politics, BA
- Political Science - General Political Science, BA
- Political Science - Int'I Rel/Comparative Politics, BA
- Political Science - Pol Sci Fast Track MPA, BA
- Political Science - Public Admin/Public Policy, BA
- Political Science - Public Law, BA
- Psychology - Child Psychology, BA
- Psychology - Child Psychology, BS
- Psychology, BA
- Psychology, BS
- Religious Studies, BA
- Social Work, BSW
- Sociology - Social Welfare, BA
- Sociology, BA
- Spanish, BA
- Statistics, BA
- Statistics, BS



## College of Arts and Sciences Undergraduate Minors

- African Amer Studies/Diaspora
- American Literature Studies
- Anthropology
- Applied Statistics
- Art History
- Asian Studies
- Biology
- British Literature
- Chemistry
- Chinese
- Classical Civilization
- Communication Studies
- Creative Writing
- Criminal Justice
- Culture and Philosophy
- Economics
- Environmental Studies
- Film Studies
- French
- Gender Studies
- History
- Interdisciplinary Studies
- International Studies
- Law and Philosophy
- Literature
- Mass Communication
- Mathematical Science
- Painting, Drawing, Printmaking
- Philosophy
- Photography
- Physics
- Political Science
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## Graduate Transfer

The residency requirement at UNF is 24 semester credit hours; 18 of which must be taken at the 6000 level. No student may earn a UNF graduate degree without 24 hours of UNF graduate course credit. It is also required that students earn a majority of credits toward their degrees at UNF.

Individual programs have particular requirements concerning transferring in credits; most graduate programs at UNF allow a student to transfer in approximately 20 percent of the overall graduate credits required for a degree (rounded up to the nearest number divisible by 3) from another regionally accredited institution, as allowable under the residency requirement and as approved on a course by course basis at the discretion of the appropriate graduate program director. Additional credits may be transferred in via special petition, subject to the approval of the appropriate graduate program director and the Graduate Dean. No student may transfer in more than 40 percent of the overall credits required for a degree.

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A student who transfers in more than 20 percent of the credits required for a degree may not apply any credits earned as a transient student (hours taken at another institution while the student is matriculating at UNF) toward fulfillment of that degree's requirements without prior approval of the appropriate graduate program director and the Graduate Dean. Students wishing to enroll in courses at another institution for the purpose of transferring credits into their graduate program of study must complete a "Concurrent Enrollment" form and have prior approval from the appropriate graduate program director.

Additional credit transfer conditions:

1. The student must have completed the course work subject to the time limits applicable to his or her current graduate program.
2. The student must have earned grades of 3.0 or higher in the courses.
3. The student is not entitled to apply transfer credits toward the 18 hour minimum of 6000level courses required for all master's degrees.
4. The student is not entitled to transfer credit for correspondence courses, courses included in a completed degree program, or portfolio-based experiential learning that has taken place prior to admission to the current graduate program.

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## Transient Student Admission

## Special Admission

Under certain circumstances students currently enrolled at other universities may enroll at UNF as "transient students" on a space available basis.

## Special Admission for Transient Students

A student in good standing at an approved institution may apply to UNF for one term to complete work; the credit for which will be transferred back to the student's home institution. Applicants must submit either an official transcript or a letter from their college or university's Registrar verifying their good standing. A transient enrollment form or other documentation may be required by the program in which the student seeks to take coursework.

## Special Admission for Inter-Institutional Transient Students

A student in good standing at a school participating with UNF in various exchange programs or exchange agreements may apply to UNF for one term, or for the duration of a special program, to complete work the credit for which will be transferred back to the home institution. The student must be sponsored by his or her academic dean, who is responsible for arranging with the UNF Registrar's Office and the appropriate college dean for the student's visit. The student will register at UNF and pay UNF tuition and registration fees. The process is the same for UNF students seeking to attend other institutions for a single term or for the duration of a special program. UNF students must have the support of their academic dean, who is responsible for arranging their visits. UNF students will register at and pay the tuition and fees of the institution they are visiting.
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## Readmission of Inactive Students

Students who have been accepted previously but who never enrolled or who have not taken courses for one year (three consecutive terms, including summers) must update their admissions applications with the Graduate School. They must do so at least six weeks before the beginning of the term in which they wish to enroll. They will be responsible for meeting any new general admissions requirements or program specific requirements.
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## Graduate Program Course Level

Eighteen (18) hours of any UNF graduate degree must be successfully completed at the 6000 level.

All graduate and post-baccalaureate professional degree programs at the University of North Florida shall include only courses at the 5000 level and above. This does not include (1) pre-requisites, (2) minors, (3) teacher certification add-on programs, or (4) field-based coursework connected to teacher certification programs.
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## Degree Completion within Six Years

All coursework for a graduate or post-baccalaureate professional degree must be completed within six years of a master's degree-seeking student being admitted to a graduate program. All coursework for a doctoral degree must be completed within eight years. All exceptions must be approved by the student's Graduate Program Director and the Dean of the Graduate School.
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## Second Masters Residency

For a second master's degree, at least 24 hours of UNF graduate coursework in residency is required. Coursework counted in the fulfillment of any other UNF degree requirements cannot be counted toward this second master's residency requirement.

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## Graduate Program Independent Learning

All graduate and post-baccalaureate professional degree programs at the University of North Florida include opportunities for students to participate in independent scholarly/research engagement and/or appropriate professional preparation experiences. These opportunities may be offered through traditional thesis or dissertation experiences, through culminating-experience projects, or through assignments embedded in particular courses in a program.

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## Credit Earned as Post-Baccalaureate

A student may apply up to 10 hours of graduate course work taken at UNF as a post-baccalaureate. (Such credits will be included in the student's UNF graduate GPA.) The student must receive the approval of the Program Director, who will then inform The Graduate School.

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## Graduate GPA Policy

The Graduate GPA includes all graduate credits taken once the student has been accepted as a degree-seeking graduate student. This includes all graduate credits, even before official admission to a graduate program, when those credits are used to fulfill degree requirements.

Graduate credits taken as a post-baccalaureate student, when those hours are not counted toward fulfillment of degree requirements, are not counted in the construction of the Graduate GPA. Undergraduate credits, no matter when they are taken, are not counted. Transfer credits are not counted, with the exception of joint international degree programs. All graduate credits from these programs are used to calculate the graduate GPA.

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## Satisfactory Academic Progress

## Good Academic Standing

A graduate student who has a cumulative UNF Graduate GPA of 3.0 or higher is considered to be in good academic standing.

A graduate student must have a cumulative UNF Graduate GPA of 3.0 or higher to be eligible for
graduation and the award of a graduate degree.

Graduate students who hold assistanships and fellowships are expected to be in good academic standing.

## Academic Probation

A graduate student who fails to maintain a cumulative UNF Graduate GPA of at least 3.0 will be considered not in good academic standing and will be placed on academic probation. Probation shall be noted on the academic transcript for each term in which the cumulative UNF Graduate GPA is below 3.0.

## Academic Suspension and Dismissal

1. If, while a graduate student is on probation, the cumulative UNF Graduate GPA does not reach 3.0 in the next academic term, the student is eligible for suspension or dismissal from the program.
2. If, while a graduate student is on probation, he or she earns a D or F in a graduate course in his or her program of study, the student is eligible for suspension or dismissal from the program.

The decision concerning whether the student is actually placed on academic suspension rests with the particular program's Graduate Program Director and/or the program's Graduate Program Committee (should the program have one).

Academic suspension is noted on the academic transcript. A graduate student may not register for courses while on academic suspension. The decision to release the student from academic suspension rests with the particular program's Graduate Program Director and/or Graduate Program Committee.

Decisions made by Graduate Program Directors and/or Graduate Program Committees may be appealed by graduate students; such appeals are made through the normal academic appeals process as specified in the Graduate Catalog and Student Handbook.

## Program-Specific Policies

Many programs have program-specific policies further defining good academic standing and related matters. These program-specific policies, if inclusive of higher standards than those of the university, supersede university policy. Please refer to individual program requirements for more information.

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## Dismissing a Student from a Graduate Program

When a student is being considered for dismissal from his/her graduate program, either at the end of a term or during a term, the Graduate Program Director and the Graduate Program Committee (should there be one) will:

1. ensure dismissal of a student from the program is supported by published policy;
2. inform the student, both through email and regular mail, of the matte;
3. offer the student an opportunity to meet with the Graduate Program Director to plead his/her case, if the decision to dismiss the student is to be made by the Graduate Program Director;
4. offer the student an opportunity to address a meeting of the Graduate Program Committee, if there is to be a Graduate Program Committee meeting for the purpose of deciding whether or not to dismiss the student;
5. inform the student of available appeal procedures and describe them, if it has been determined the student is to be dismissed from the program.

If any meetings occur, with or without a committee, the Graduate Program Director must write formal minutes. If no meetings occur, the Graduate Program Director will write a memorandum describing the decision-making process. Minutes of meetings, memoranda, and all appropriate supporting documentation, will be shared with the department chair, college dean, and the graduate dean.

If the student is dismissed from his/her graduate program, the student's transcript will bear an

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## Graduate Dual International Degrees

Effective fall 2010, all dual graduate degrees offered through joint, cooperative, or collaborative academic arrangements between UNF and international institutions must meet the following requirements:

1. The minimum number of graduate credit hours required is 48 hours;
2. Students must earn a minimum of $50 \%$ of the total number of credit hours, including the international coursework, from UNF;
3. The graduate GPA includes all graduate credits taken as part of the degree including those from the international institution(s).
4. In an effort to provide accurate student transcripts, UNF will include course names and grades on the students' UNF transcritps for all degree-required, earned credit courses that are transferred into UNF as part of pre-approved international programs operating under collaborative academic arrangements. Courses listed will be printed under a header indicating that they are part of a university-approved program.

Any program approved prior to fall 2010 (GlobalMBA, Ibero-American MBA) is exempt from item 1 and 2 listed above.

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## Graduate Admissions

(1) The following are the minimum requirements for admission to graduate programs at the University of North Florida.
a. A baccalaureate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution with a grade point average of 3.00 (B) or higher in all work attempted as an upper-division student, normally the 60 semester hours taken during the last two years of baccalaureate study, or b. An earned graduate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution.
(2) Applicants who hold baccalaureate degrees from an international institution must submit a course-by-course degree evaluation from a UNF and NACES approved evaluation service or, on exception, a course-by-course evaluation performed by the University's International Center.
(3) Additionally, all applicants to master's programs must meet the following specific requirements:
a. Each master's program may determine other requirements for admission (e.g., standardized test scores, written essays, an interview), consistent with their mission and purpose. Any additional admissions requirements so imposed by masters programs must be approved by the Dean of the Graduate School and published annually in the Graduate Catalog and on the program website area of the Graduate School for the masters program; further, such requirements shall be reviewed and updated annually.
b. These requirements shall not include preferences in the admissions process for applicants on the basis of any category protected by law.
c. The submitted materials must be used in the context of a holistic credential review process.
(4) Additionally, all applicants to doctoral programs must meet the following specific requirements:
a. Each applicant to a doctoral degree program shall present standardized test scores that are acceptable for the program to which the student is applying.
Acceptable tests include the Graduate Record Examination (verbal, quantitative, and writing), the Miller's Analogies Test, or the GMAT, whichever is deemed most
appropriate by the program. Students, including international students, who already have a graduate degree obtained from a regionally accredited institution in the same or in a related area are not required to take the standardized test unless it is required by the program.
b. Each doctoral program may determine other requirements for admission (e.g., letters of recommendation, a resume or a curriculum vita, a written essay, an interview) consistent with their mission and purpose. Any additional admissions requirements so imposed by doctoral programs must be approved by the Dean of the Graduate School and published annually in the Graduate Catalog and on the website area of the Graduate School for the program; further, such requirements shall be reviewed and updated annually.
c. The submitted materials must be used in the context of a holistic credential review process annually.
d. These requirements shall not include preferences in the admissions process for applicants on the basis of any category protected by law.
(5) The University may grant a limited number of exceptions to those applicants who do not meet the basic admission requirements. All applicants requesting an exception must submit GRE, GMAT, or MAT scores, as appropriate, prior to making the request. Students granted an exception will be placed in a provisional admission status for the graduate degree program that they wish to enter. Continuation as a graduate student will depend upon successful completion of provisional admission requirements and any subsequent work.
(6) Applicants from countries where the official language is other than English must achieve the minimum required test scores on the TOEFL or University of Cambridge IELTS as set by the University of North Florida.
(7) The following are required of all applicants:
a. Application for admission;
b. Non-refundable application fee in the amount set forth by the university;
c. Transcripts from each college attended, whether or not credits were earned;
d. Standardized Test Scores - only if required by the individual graduate program.
(8) Admission to graduate study is granted on an individual basis with a review of the entire academic record of the applicant, including quality of past performance, standardized test scores (if required), appropriateness of work taken, and suitable professional experience. To ensure that all pertinent application materials are received in time, applications for admission must be received by the published deadlines of the university and of the program to which the application is being made.

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## Graduate Certificate Programs

Credit bearing, graduate certificate programs are comprised of related courses that constitute a coherent body of study within a discipline. These programs must be approved through the university and faculty governance processes. Furthermore, these programs must establish student-learning outcomes and assess the extent to which students achieve these outcomes. This is done via the Graduate Academic Learning Compact (GALC). Additional information about the assessment of learning outcomes can be found in the GALC policy. GALC must be developed for all graduate certificate programs.

The number of graduate credits within a graduate certificate program cannot be less than 9 or more than one-half of the credits necessary for a related master's degree. Certificate programs approved prior to the implementation of this policy are exempt from these credit limitations.

Student pursuing a graduate certificate will be required to meet the same academic requirements as those defined for degree-seeking students to remain in "good standing."

All graduate certificate students must meet all prerequisites for courses in which they wish to enroll.

## Application of Credits towards Degree programs

When concurrently enrolled in a graduate degree program, and with the approval of the sponsoring college, students can apply required coursework to both the graduate certificate program and, if applicable, their chosen graduate degree program. Students cannot return for a retroactive certificate award following graduation. Students who have graduated from a degree program and wish to return to pursue a graduate certificate will need to apply to the Graduate School, and the specific certificate program, and pay a new application fee.

If a student later returns to UNF to earn a graduate degree, up to 12 hours of UNF credit earned as a graduate certificate student may be applied to satisfy graduate degree requirements. Any application of such credit must be approved by the graduate program and must be appropriate to the program. It should be noted that not all programs allow credit earned as part of a graduate certificate to be applied towards a similar graduate degree.

## Completion of program requirements

Students are subject to the individual requirements of the graduate certificate program and will need to complete at least fifty percent of the required coursework in residence at the university (e.g., face-to-face, distance learning). Successful completion of the graduate certificate program will be noted on the student's official transcript separately from his or her degree program.

The graduate certificate is not viewed as a guaranteed means of entry into a graduate degree program.

## Admissions to Graduate Certificate Programs

Currently enrolled UNF students who wish to pursue a graduate certificate program are required to apply through the graduate school and be accepted to the desired program in accordance with program-specific admissions criteria. No application fee is required.

1. All students applying for graduate level certificate programs will submit an application to The Graduate School.
2. The Graduate School will refer the application to the appropriate department for an admission decision.
3. Each program will develop its own admission criteria for certificate programs.
4. Acceptance to the graduate certificate program is dependent on student eligibility and, if required, departmental approval.

## Certificate and Transcripts

Once the program coursework is satisfied the student may be eligible to receive a document acknowledging completion that is separate from a diploma conferral. Printing and conferring all completion documents from university certificate programs will be the sole responsibility of the Registrar and the Office of Enrollment Services Processing. All materials required to print and package the completion documents will also be housed within the Enrollment Services Processing Office.


## College of Arts and Sciences Graduate Degrees

- Biology, MA
- Biology, MS
- Criminal Justice, MSCJ
- English - Composition and Rhetoric, MA
- English, MA
- General Psychology, MA
- History - European History (Non-Thesis), MA
- History - European History with Thesis, MA
- History - US History (Non-Thesis), MA
- History - US History with Thesis, MA
- Mathematical Science - Mathematics, MS
- Mathematical Science - Statistics, MS
- Practical Philosophy \& Applied Ethics, MA
- Public Administration - General Administration, MPA
- Public Administration - Health Administration, MPA
- Public Administration - Local Government Policy \& Adm, MPA
- Public Administration - National Security, MPA
- Public Administration - Non-Profit Management, MPA
- Public Administration - Public Policy, MPA

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## College of Arts and Sciences Graduate Certificates and Cognates

## Certificates:

- Applied Ethics Certificate
- Nonprofit Management Certificate


## Cognates:

- Public Management Cognate


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## Honors in the Major Program

The Honors Program at UNF is designed for the student who is intellectually mature and seeks the challenge of academic work that is different from the traditional course of study. It offers students a close collegial relationship with the University's top professors and with each other. There are two types of honors programs at the University of North Florida.

- The first is a lower-level program open to freshmen and sophomores.
- The second is the "Honors in the Major" program open to upper-level students in the College of Arts and Sciences.

A student does not have to be in the lower-level honors program to enroll in the upper-level "Honors in the Major" program. More information on admission requirements and procedures for applying to the program can be obtained from your academic department.


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## Pre-Law Program

Location: Building 51, Room 2117

Phone: (904) 620-1690
Web Address: http://www.unf.edu/coas/polsci-pubadmin/Pre-Law
Martin I. Edwards, Director Pre-Law Program

The College of Arts and Sciences offers a Pre-Law Program to enhance the preparation of the undergraduate student interested in pursuing law school and entrance into law school or a lawrelated career. The Pre-Law Program is multifaceted in the range of services to students preparing for the rigors of legal training. Components of the program include thorough pre-law advising, curriculum analysis and assistance with appropriate course selection, and preparation for the Law School Admission Test (LSAT). The program assists students in preparing for the LSAT in various ways: by helping students form study groups, lending students LSAT study videos, books, previously administered LSAT tests, and advice handouts from our extensive Resource Center. The Pre-Law Program assists students in acquiring the necessary background and skills for law school admission and provides the guidance and practical information to maximize the student's opportunities for success in the field of law.

Additionally, the Pre-Law Program offers at least one \$1,500 scholarship each academic year to a qualified student. To be eligible, students must be currently enrolled in and have been enrolled in the Pre-Law Program for two consecutive semesters prior to applying, have and maintain a minimum of 3.25 GPA, and be enrolled as a full-time student (12 semester hours) at UNF.

The Pre-Law Program also strives to keep students informed about and involved in Pre-Law activities. The program publishes an information magazine entitled, Pre-Law during the fall and spring semesters which include articles written by other Pre-Law students about their experiences as UNF students and offers their advice about taking the LSAT or applying to law school. The magazine also includes information on up-coming events and pre-law opportunities. Students are welcome to stop by the offices anytime and pick up the most recent edition of Pre-Law for free.

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During the course of each semester, the Pre-Law Program hosts and co-sponsors a variety of lawrelated events including two Pre-Law Board luncheons each year and two major informational events including Pre-law Day and Pre-law Forum. The Pre-Law program's Board of Advisors is comprised of numerous local judges, attorneys, business people, and former UNF students who meet two times a year with Pre-law students. During these luncheons, guest speakers lecture on a variety of topics including international and national politics, American history as well as crime in America. In addition, one luncheon each year is designated for Pre-law Scholarship finalists to speak to the Board who then decides that year's scholarship winner. During the fall semester each year, Pre-Law sponsors Pre-Law Day, an event which allows students to meet with representatives from over thirty law schools from across Florida and around the country. The representatives answer student questions regarding the law school application process. A prominent guest speaker from the legal community is invited to serve as guest speaker. Each spring, Pre-Law also host Pre-Law Forum during which a panel of guest speakers discuss subjects as varied as the law school application process, the realities of life in law school and choosing a field of law.

The Pre-Law Program has developed four undergraduate courses which focus on the application of specific skills and perspectives such as: analytical thinking and problem solving, critical reading and writing, oral communication, research, task organizing and time management, the values of serving others and promoting social justice and knowledge. The first of the courses, "Mock Trail," was instituted during the summer of 1995. Students learn the fundamentals of trial techniques and strategy by active participation in mock trails. The examination of witnesses provides students with opportunities to practice direct and cross-examination skills acquired during the course. Another course "The Law and Social Responsibility" contains a historical, philosophical, and sociological examination of law and legal practitioner with special reference to such questions as: "Do law, lawyers, and law enforcers make people socially responsible?" The third course "Pre-Law Seminar: Ethics, Standards and Values" focuses on the ethical role of a contemporary lawyer in an ever changing society. The fourth course, "Child Advocacy," deals with the role various professionals perform in dealing with the rights of children within the legal system.

In addition, the Pre-Law Lecture Series has been created to invite nationally renowned guest speakers to campus. Among these speakers have been Linda Greenhouse, Pulitzer Prize winning journalist; Jeffrey Toobin, author and Senior Legal Analyst with CNN; Ken Starr, Solicitor General of the United States, United States Circuit Judge, Independent Counsel during the Clinton Administration, and current president of Baylor University; and coming fall 2013, Scott Turow, writer and practicing attorney. Mr. Turow is the author of seven best-selling novels including Presumed Innocent and The Burden of Proof, both of which were made into movies. The speakers in this series interact with students as well as present public lectures on an issue in the law which intersects a course of study in the College of Arts and Sciences.

Prospective students are welcome to visit the Pre-Law offices throughout the year or visit the website for more information. Students interested in the Pre-Law Program should consult the Director of the Pre-Law Program whose office is located in the Social Sciences Building 51, Room 2117 and can be reached by phone at (904) 620-1069, or email at medwards@unf.edu.


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# Biomedical Program 

Phone: (904) 620-2827
Web Address: http://www.unf.edu/coas/premed

Judith D. Ochrietor, Ph.D., Associate Professor, Biomedical Program Director

The College of Arts and Sciences offers a Biomedical Program for pre-professional students preparing for careers in medicine, dentistry, pharmacy, optometry, medical physics, podiatry, veterinary medicine, physician assistant, or laboratory research. The Biomedical Program is housed within the Department of Biological Sciences and serves students with biomedical career interests as they pursue their career goals. \Program components include: professional school academic advising by a UNF faculty member; program advising by professional academic advisors in the College of Arts \& Sciences; special information services on professional school entrance testing, application processes, and interviewing techniques; and shadowing/mentoring opportunities with practicing professionals in the community. Students in any major may participate in the Biomedical Program. The Department of Biological Sciences, Department of Chemistry, and Department of Physics each offer tracks within their degree programs that facilitate completion of the necessary courses required for entry into post-graduate health profession programs while students complete their UNF degree.

A Pre-Med Certificate program is available to post-baccalaureate students who wish to apply to medical professional schools for the first time. This program is designed for recent graduates with a degree in a non-science field. Features of the certificate program include all appropriate undergraduate course work, opportunities for advanced course work at UNF, and access to all of the Biomedical Pre-Professional Program components described above.

Students are encouraged to participate in the Biomedical Pre-Professionals Club. This service organization provides peer support and volunteer activities for interested students. Students interested in meeting with the Biomedical Program Director may make an appointment by email (premed1@unf.edu) and should also consult the Biomedical Pre-Professionals website for more details about the program.

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## Honors and Scholars Program

The Honors Program at the University of North Florida offers talented students a unique approach to higher education. Averaging only 20 students, Honors seminars apply active learning in interdisciplinary settings. The goal is to build a community of learners who have the power to take their learning outside the classroom, enabling them to take what they read in their text and apply it to the outside world. In addition, Honors students are offered special funding opportunities to enable them to learn through travel, internships, and research. The Honors Program provides students with a personalized education that is usually only available at small liberal arts colleges but at the price of a state university tuition.

What does it mean to be a UNF Honors student? It means learning to think carefully and well. It means working with professors who know your name. It means traveling to other countries and learning to understand other cultures. It means being part of a tight-knit community in which everyone is focused on becoming well-rounded individuals and exploring the world beyond lectures and textbooks. It means being supported by faculty who understand that the most meaningful education combines experiential learning and critical thinking. Our classes are heavily discussionbased, with plentiful opportunity for careful, critical thought. Many of our courses include field trips and other activities beyond the classroom so that students have the chance to see how the topic relates to the real world and to apply the skills they've learned.

For more information on what it means to be a UNF Honors student, visit the Honors Program website.

## Vision

The Honors Program demonstrates its commitment to academic and cultural growth, civic awareness and student success by fostering a community of intellectually curious global citizens. Through the Honors Program, students are encouraged to develop rigorous and comprehensive critical thinking, their sense of integrity and a commitment to service.

## Mission

The Honors Program inspires students to explore new areas beyond the experiences they've had. Through a vibrant, supportive community of faculty, staff and students, the program emphasizes opportunities to exercise disciplined critical thinking, make connections between disciplines, develop global awareness, participate as community citizens, and engage fully in their education. We do this through an interesting variety of small seminar classes taught by motivated faculty, individualized attention from a dedicated staff, and a vibrant student-directed social life.

For more information about these opportunities, visit the Honors and Scholars Program website.


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## College of Computing, Engineering \& Construction Overview

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The College of Computing, Engineering and Construction (CCEC) prepares students for professional responsibilities and creative achievement in the fields of Computer Science, Information Systems, Information Science, Information Technology, Electrical, Mechanical, and Civil Engineering and Construction Management.

## Undergraduate Degree Programs

The College of Computing, Engineering and Construction offers the

- Bachelor of Science in Computing and Information Sciences - with concentrations in Computer Science, Information Systems, Information Science, and Information Technology
- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Civil Engineering
- Bachelor of Science in Mechanical Engineering
- Bachelor of Science in Construction Management


## Graduate Degree Programs

Graduate degrees offered are the

- Master of Science in Computing and Information Sciences - with concentrations in Computer Science, Information Systems, and Software Engineering
- Master of Science in Electrical Engineering
- Master of Science in Civil Engineering - with concentrations in Geotechnical/Structural and Water Resources/Environmental
- Master of Science in Mechanical Engineering

The College also collaborates with the Coggin College of Business to support an M.B.A. concentration in Construction Management.

The undergraduate computer science, information systems, information science, and information technology programs are accredited by the Computing Accreditation Commission (CAC) of ABET, http://www.abet.org. The undergraduate electrical engineering, civil engineering, and mechanical engineering programs are accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org. The undergraduate construction management program is accredited by the American Council for Construction Education (ACCE).
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## Mission

The College of Computing, Engineering and Construction offers exciting and demanding degree programs that lead to highly rewarding careers. One of the college's hallmarks is the interaction of the faculty with students on research projects. The faculty are committed to preparing our students to make significant contributions to their chosen professions and the Northeast Florida region and beyond.

## Vision

The College of Computing, Engineering, and Construction aspires to be nationally known for its admirable degree programs and research which contribute significantly to the economic vitality of the Northeast Florida region.
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## Values

The College seeks to develop the technical, communications, and leadership abilities of our students. We are committed to acting with integrity and employing ethical behavior in all of our dealings.

## Transformational Learning Opportunities

Transformation Learning Opportunities (TLO) are available for a variety of enriching experiences while pursuing a degree at UNF, including but not limited to, directed independent research, cooperative experiences, study abroad opportunities, and internships. With prior approval, some of these may also be used for academic credit.
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## Laboratory and Computing Facilities

## www.unf.edu/ccec/facilities/

The general campus computing environment, including wireless Internet access, email systems, general purpose student computer labs, most technology-enhanced classrooms, and central business systems is maintained by UNF Information Technology Services.

Specialized and advanced computing, engineering, and construction management laboratories housed within the College extend general campus computing services by adding advanced facilities supporting the wide range of research and instruction that characterizes the College's degree programs.

The advanced School of Computing (SoC) laboratories are configured specifically to support upperlevel and graduate instruction and research in robotics, data engineering, software development, game development, mobile computing, computer security, and communications/networking, utilizing Windows, Linux, and Mac operating systems environments. Courses in the School of Engineering (SoE) are supported by specialized laboratories, which are equipped with advanced computer systems, engineering instrumentation, and specialized software.

These laboratories provide flexible environments suited for class work, senior design, and research projects. The Construction Management program uses computing and materials laboratories
designed to support and enhance the curriculum, capstone projects, and construction materials research.

The computing environments maintained by the College make use of the University's high-speed data network and Florida Lambda Rail, a high-speed, low-latency research network connecting the State's universities and research institutions.


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## College of Computing, Engineering and Construction

## Contact Information

## Dean's Office

Mark A. Tumeo, Ph.D., Dean \& Professor
Sherif A. Elfayoumy, Ph.D., Associate Dean \& Associate Professor

Location: Science and Engineering Building (Building 50), Room 3400
Phone: (904) 620-1350
Website: www.unf.edu/ccec/

## Mailing Address:

University of North Florida
Science and Engineering Building
1 UNF Drive, Building 50
Jacksonville, Florida 32224-7699

## School of Computing

Location: John E. Mathews Jr Building (Building 15) School of Computing, Room 3201
Phone: (904) 620-2985
Fax: (904) 620-2988
Web Address: www.unf.edu/ccec/computing/

## School of Engineering

Location: Science and Engineering Building (Building 50) School of Engineering, Room 2500
Phone: (904) 620-1390
Fax: (904) 620-1391
Web Address: www.unf.edu/ccec/engineering

## Construction Management Department

Location: Science and Engineering Building (Building 50) Construction Management, Room 2400
Phone: (904) 620-2683
Fax: (904) 620-2573
Web Address: www.unf.edu/ccec/construction

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# College of Computing, Engineering and Construction Academic Advising 

## School of Computing Advising Office:

John E. Mathews Jr. Building (Building 15/Room 3201)
Katharine C. Brown, MBA., Senior Instructor \& Academic Advisor
Edwin G. Harris II, M.S., Instructor \& Academic Advisor
School of Engineering Advising Office:
Science and Engineering Building (Building 50/Room 2300)
Richard V. Conte, Ph.D. P.E., Senior Instructor \& Academic Advisor
Construction Management Advising Office:
Science and Engineering Building (Building 50/Room 2300)
James Sorce, MBA, Instructor \& Academic Advisor

Academic Advising in the College of Computing, Engineering, and Construction is provided by professionals in their respective fields, who are members of our teaching faculty. These individuals have the academic qualifications to teach in their academic units and have real-world work experiences in their disciplines. With this background, they are uniquely able to provide wellinformed academic advice and career guidance for our students.

Students should meet with an academic advisor concerning their program requirements as early as possible; preferably before registration for their first semester at UNF. Each student must review a degree evaluation (program of study) with his or her academic advisor in the college by the end of their first semester at UNF. Degree evaluations are prepared after the Office of Admissions has evaluated a student's final transcripts.

Contact information for CCEC Advisors can be found at www.unf.edu/ccec/advising.

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## College of Computing, Engineering and Construction Undergraduate Academic Policies

The College of Computing, Engineering, and Construction adheres to all academic policies and regulations of the University. In addition, each academic unit has policies which apply to all undergraduate students in their majors.

- School of Computing's academic policies
- School of Engineering's academic policies
- Construction Management's academic policies

The following policies apply to all undergraduate students in the College of Computing, Engineering, and Construction.

## Dual Degrees at UNF

Students desiring to obtain two baccalaureate degrees, one from CCEC and one from another UNF college, must meet the requirements for both degrees, earn a minimum of 150 credit hours, and have the approval of both colleges. The application for graduation must indicate both degrees.
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## Double Majors

Double majors within the same degree are not permitted in this college.
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## Multiple Minors

Undergraduate students pursuing a degree in this college are permitted to pursue more than one minor in their program of study. Official declaration of the minor(s) is necessary to ensure the minor(s) will be recorded on the degree evaluation, and university transcripts. Students must meet with their academic advisor to discuss the minor(s) selected. Students majoring in computer science, information technology, electrical engineering, civil engineering, mechanical engineering or building construction management are not required to select a minor.

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## College of Computing, Engineering and Construction Accreditation Statement

## Computing and Engineering

ABET accreditation is a significant achievement. Accreditation assures that a program has met quality standards set by the profession. To employers, graduate schools, and licensure, certification, and registration boards, graduation from an accredited program signifies adequate preparation for entry into the profession.

The Computer Science Program, the Information Systems Program, the Information Science Program, and the Information Technology Program are accredited by the Computing Accreditation Commission (CAC) of ABET, http://www.abet.org.

The Electrical Engineering Program, the Civil Engineering Program, and the Mechanical Engineering Program are accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org.

## Construction Management

The Construction Management Program is accredited by the American Council for Construction Education (ACCE), 1717 North Loop 1604 East, Suite 320, San Antonio, TX 78232-1570 -telephone: (210) 495-6161.

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## College of Computing, Engineering and Construction Undergraduate Degrees and Majors

## Links to Programs of Study:

- Building Construction, BS
- Civil Engineering, BS
- Computing \& Information Sciences - Computer Science, BS
- Computing \& Information Sciences - Information Science, BS
- Computing \& Information Sciences - Information Systems/Business Minor, BS
- Computing \& Information Sciences - Information Technology, BS
- Electrical Engineering - Engineering, BSEE
- Mechanical Engineering, BS


## Summary Program Descriptions:

- Building Construction Program
- Computer Science Program
- Information Systems Program
- Information Science Program
- Information Technology Program
- Civil Engineering Program
- Electrical Engineering Program
- Mechanical Engineering Program

The College of Computing, Engineering and Construction (CCEC) prepares students for professional responsibilities and creative achievement in the fields of Computer Science, Information Systems, Information Science, Information Technology, Electrical, Mechanical, and Civil Engineering and Construction Management. Undergraduate degrees offered are the Bachelor of Science in Computer and Information Sciences, the Bachelor of Science in Electrical Engineering, the Bachelor of Science in Civil Engineering, the Bachelor of Science in Mechanical Engineering, and the Bachelor of Science in Building Construction.

Most of the college's graduates either enter the growing computing, construction, engineering, and information systems job market or continue in advanced studies at UNF and other institutions of higher learning.

## Building Construction Program

The Construction Management program consists of management-oriented technical curricula built

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on a balanced program of studies drawn from building construction, computer concepts, management, and general education requirements.

A graduate of this program can expect to find employment in the residential, commercial, heavy civil, or industrial construction industry. Typical employment positions include estimator, assistant project manager, assistant superintendent, field engineer, project manager or construction company manager.

## Computer Science Program

This program is modeled according to the recommendations of the ACM (Association for Computing Machinery) and the IEEE-CS (Computer Society of the Institute for Electrical and Electronics Engineers). It emphasizes course work in computational structures, systems software, data structures, artificial intelligence, algorithms, data modeling, modeling and simulation, computer graphics, compilers, operating systems, interfacing, computer architecture, robotics, and other applications and theory.

Graduates will be prepared for careers in systems development and programming involving compiler, operating system and database design, modeling and simulation, artificial intelligence and robotics, computer graphics, computer architecture and interfacing, computer communications and scientific applications.

The Computer Science Program requires a strong background in mathematics and science, including calculus and calculus-based physics. It is recommended for those interested in the more technically and scientifically oriented areas of computing.
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## Information Systems Program

This program follows the curriculum recommendations of the Association of Information Technology Professionals (AITP). The Information Systems Program combines computer course work with a complementary selection of business courses. The Information Systems Program is strongly recommended for those interested in business-oriented computer applications. The business minor is a required and integral component of the Information Systems Program.

Computer courses include systems analysis, systems implementation, computer communications, database processing, and other courses focused on implementation of computer solutions to business problems. Graduates will be prepared for careers as applications programmers, systems analysts, or information systems managers.
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## Information Science Program

This program is identical in computer course work to the Information Systems program; however, the student may select a minor from an area other than business administration. Depending upon the choice of a minor, graduates will be prepared for careers as systems programmers, applications programmers, systems analysts or other specialized computer-related professionals.

In addition to the computing course work, the Information Science Program requires studies in a minor area other than business administration. A minor consists of a planned selection of courses supportive of the major. Minors are described in the UNF catalog under the appropriate college. Courses applied toward the major may not be counted in the minor.

This major incorporates the same computing courses as the Information Systems Program and is only recommended for a student who has a strong interest in a secondary field other than business administration. It can also be used for a post baccalaureate student seeking a second bachelor's degree; as a minor is not required for a second bachelor's degree.

## Information Technology Program

In an effort to meet the demands of an ever-changing technology market, the school offers a program in Information Technology with concentrations in Computer Networking, Mobile Computing, and Computer Security Administration. This program combines professional requirements with general education requirements and electives to prepare students for a career in the information technology field or for graduate work in Information Technology.

Students completing this program will be specialists ready to face high expectations of organizations with respect to planning, implementation, configuration, and maintenance of a computing infrastructure. They will be able to apply computing principles and concepts by participating in practical activities throughout the program. By selecting one of three available concentrations, students attain expertise in an area of growing demand.
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## Civil Engineering Program

Civil engineers design the built environment - the structures, roads, water supply systems, and much more - that surrounds us. The profession is broad and encompasses several technical areas including structures, transportation, geotechnics, water resources and environmental protection.

Employment opportunities are plentiful in design, construction, management, teaching, and research. Employers include consulting firms, industrial companies, and government agencies and non-governmental organizations. The UNF Office of Career Services provides information on companies seeking civil engineering graduates for permanent positions or current students for employment in cooperative education positions.

## Electrical Engineering Program

Electrical engineers harness electrical energy for the benefit of humankind. The profession is broad and encompasses products valued by society in many technical areas from communications to electric power and energy use to those for our current "Information Age."

Employment opportunities range over product design, development, manufacturing, sales, management, teaching, and research. Employers include industrial companies, consulting firms, and government agencies and non-governmental organizations. The UNF Office of Career Services provides information on companies seeking electrical engineering graduates for permanent positions or current students for employment in cooperative education positions.
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## Mechanical Engineering Program

Mechanical engineering is concerned with energy and its transformations and the design of objects and structures that move. Mechanical engineers are responsible for conceiving, designing, manufacturing, testing, and marketing devices and systems that alter, transfer, transform and utilize the energy form that ultimately causes motion.

Employment opportunities range over product design, development, manufacturing, sales, management, teaching, and research. Employers include industrial companies, consulting firms, and government agencies and non-governmental organizations. The UNF Office of Career Services provides information on companies seeking mechanical engineering graduates for permanent positions or current students for employment in cooperative education positions.


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## College of Computing, Engineering and Construction Undergraduate Minors

The College of Computing, Engineering, and Construction offers three university-wide minors.

- Computer Science
- Electrical Engineering
- Information Science

Note: Majors in the School of Computing are restricted from taking the Computer Science or Information Science minors.

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## Graduate Transfer

The residency requirement at UNF is 24 semester credit hours; 18 of which must be taken at the 6000 level. No student may earn a UNF graduate degree without 24 hours of UNF graduate course credit. It is also required that students earn a majority of credits toward their degrees at UNF.

Individual programs have particular requirements concerning transferring in credits; most graduate programs at UNF allow a student to transfer in approximately 20 percent of the overall graduate credits required for a degree (rounded up to the nearest number divisible by 3) from another regionally accredited institution, as allowable under the residency requirement and as approved on a course by course basis at the discretion of the appropriate graduate program director. Additional credits may be transferred in via special petition, subject to the approval of the appropriate graduate program director and the Graduate Dean. No student may transfer in more than 40 percent of the overall credits required for a degree.

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A student who transfers in more than 20 percent of the credits required for a degree may not apply any credits earned as a transient student (hours taken at another institution while the student is matriculating at UNF) toward fulfillment of that degree's requirements without prior approval of the appropriate graduate program director and the Graduate Dean. Students wishing to enroll in courses at another institution for the purpose of transferring credits into their graduate program of study must complete a "Concurrent Enrollment" form and have prior approval from the appropriate graduate program director.

Additional credit transfer conditions:

1. The student must have completed the course work subject to the time limits applicable to his or her current graduate program.
2. The student must have earned grades of 3.0 or higher in the courses.
3. The student is not entitled to apply transfer credits toward the 18 hour minimum of 6000level courses required for all master's degrees.
4. The student is not entitled to transfer credit for correspondence courses, courses included in a completed degree program, or portfolio-based experiential learning that has taken place prior to admission to the current graduate program.

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## Transient Student Admission

## Special Admission

Under certain circumstances students currently enrolled at other universities may enroll at UNF as "transient students" on a space available basis.

## Special Admission for Transient Students

A student in good standing at an approved institution may apply to UNF for one term to complete work; the credit for which will be transferred back to the student's home institution. Applicants must submit either an official transcript or a letter from their college or university's Registrar verifying their good standing. A transient enrollment form or other documentation may be required by the program in which the student seeks to take coursework.

## Special Admission for Inter-Institutional Transient Students

A student in good standing at a school participating with UNF in various exchange programs or exchange agreements may apply to UNF for one term, or for the duration of a special program, to complete work the credit for which will be transferred back to the home institution. The student must be sponsored by his or her academic dean, who is responsible for arranging with the UNF Registrar's Office and the appropriate college dean for the student's visit. The student will register at UNF and pay UNF tuition and registration fees. The process is the same for UNF students seeking to attend other institutions for a single term or for the duration of a special program. UNF students must have the support of their academic dean, who is responsible for arranging their visits. UNF students will register at and pay the tuition and fees of the institution they are visiting.
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## Readmission of Inactive Students

Students who have been accepted previously but who never enrolled or who have not taken courses for one year (three consecutive terms, including summers) must update their admissions applications with the Graduate School. They must do so at least six weeks before the beginning of the term in which they wish to enroll. They will be responsible for meeting any new general admissions requirements or program specific requirements.

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## Graduate Program Course Level

Eighteen (18) hours of any UNF graduate degree must be successfully completed at the 6000 level. All graduate and post-baccalaureate professional degree programs at the University of North Florida shall include only courses at the 5000 level and above. This does not include (1) pre-requisites, (2) minors, (3) teacher certification add-on programs, or (4) field-based coursework connected to

## Degree Completion within Six Years

All coursework for a graduate or post-baccalaureate professional degree must be completed within six years of a master's degree-seeking student being admitted to a graduate program. All coursework for a doctoral degree must be completed within eight years. All exceptions must be approved by the student's Graduate Program Director and the Dean of the Graduate School.
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## Second Masters Residency

For a second master's degree, at least 24 hours of UNF graduate coursework in residency is required. Coursework counted in the fulfillment of any other UNF degree requirements cannot be counted toward this second master's residency requirement.

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## Graduate Program Independent Learning

All graduate and post-baccalaureate professional degree programs at the University of North Florida include opportunities for students to participate in independent scholarly/research engagement and/or appropriate professional preparation experiences. These opportunities may be offered through traditional thesis or dissertation experiences, through culminating-experience projects, or through assignments embedded in particular courses in a program.
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## Credit Earned as Post-Baccalaureate

A student may apply up to 10 hours of graduate course work taken at UNF as a post-baccalaureate. (Such credits will be included in the student's UNF graduate GPA.) The student must receive the approval of the Program Director, who will then inform The Graduate School.

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## Graduate GPA Policy

The Graduate GPA includes all graduate credits taken once the student has been accepted as a degree-seeking graduate student. This includes all graduate credits, even before official admission to a graduate program, when those credits are used to fulfill degree requirements.

Graduate credits taken as a post-baccalaureate student, when those hours are not counted toward fulfillment of degree requirements, are not counted in the construction of the Graduate GPA. Undergraduate credits, no matter when they are taken, are not counted. Transfer credits are not counted, with the exception of joint international degree programs. All graduate credits from these programs are used to calculate the graduate GPA.
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## Satisfactory Academic Progress

## Good Academic Standing

A graduate student who has a cumulative UNF Graduate GPA of 3.0 or higher is considered to be in good academic standing.

A graduate student must have a cumulative UNF Graduate GPA of 3.0 or higher to be eligible for graduation and the award of a graduate degree.

Graduate students who hold assistanships and fellowships are expected to be in good academic
standing.

## Academic Probation

A graduate student who fails to maintain a cumulative UNF Graduate GPA of at least 3.0 will be considered not in good academic standing and will be placed on academic probation. Probation shall be noted on the academic transcript for each term in which the cumulative UNF Graduate GPA is below 3.0.

## Academic Suspension and Dismissal

1. If, while a graduate student is on probation, the cumulative UNF Graduate GPA does not reach 3.0 in the next academic term, the student is eligible for suspension or dismissal from the program.
2. If, while a graduate student is on probation, he or she earns a D or F in a graduate course in his or her program of study, the student is eligible for suspension or dismissal from the program.

The decision concerning whether the student is actually placed on academic suspension rests with the particular program's Graduate Program Director and/or the program's Graduate Program Committee (should the program have one).

Academic suspension is noted on the academic transcript. A graduate student may not register for courses while on academic suspension. The decision to release the student from academic suspension rests with the particular program's Graduate Program Director and/or Graduate Program Committee.

Decisions made by Graduate Program Directors and/or Graduate Program Committees may be appealed by graduate students; such appeals are made through the normal academic appeals process as specified in the Graduate Catalog and Student Handbook.

## Program-Specific Policies

Many programs have program-specific policies further defining good academic standing and related matters. These program-specific policies, if inclusive of higher standards than those of the university, supersede university policy. Please refer to individual program requirements for more information.
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## Dismissing a Student from a Graduate Program

When a student is being considered for dismissal from his/her graduate program, either at the end of a term or during a term, the Graduate Program Director and the Graduate Program Committee (should there be one) will:

1. ensure dismissal of a student from the program is supported by published policy;
2. inform the student, both through email and regular mail, of the matte;
3. offer the student an opportunity to meet with the Graduate Program Director to plead his/her case, if the decision to dismiss the student is to be made by the Graduate Program Director;
4. offer the student an opportunity to address a meeting of the Graduate Program Committee, if there is to be a Graduate Program Committee meeting for the purpose of deciding whether or not to dismiss the student;
5. inform the student of available appeal procedures and describe them, if it has been determined the student is to be dismissed from the program.

If any meetings occur, with or without a committee, the Graduate Program Director must write formal minutes. If no meetings occur, the Graduate Program Director will write a memorandum describing the decision-making process. Minutes of meetings, memoranda, and all appropriate supporting documentation, will be shared with the department chair, college dean, and the graduate dean.

If the student is dismissed from his/her graduate program, the student's transcript will bear an appropriate notation, and the student will receive no refund of tuition or fees.

[^3]
## Graduate Dual International Degrees

Effective fall 2010, all dual graduate degrees offered through joint, cooperative, or collaborative academic arrangements between UNF and international institutions must meet the following requirements:

1. The minimum number of graduate credit hours required is 48 hours;
2. Students must earn a minimum of $50 \%$ of the total number of credit hours, including the international coursework, from UNF;
3. The graduate GPA includes all graduate credits taken as part of the degree including those from the international institution(s).
4. In an effort to provide accurate student transcripts, UNF will include course names and grades on the students' UNF transcritps for all degree-required, earned credit courses that are transferred into UNF as part of pre-approved international programs operating under collaborative academic arrangements. Courses listed will be printed under a header indicating that they are part of a university-approved program.

Any program approved prior to fall 2010 (GlobalMBA, Ibero-American MBA) is exempt from item 1 and 2 listed above.

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## Graduate Admissions

(1) The following are the minimum requirements for admission to graduate programs at the University of North Florida.
a. A baccalaureate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution with a grade point average of 3.00 (B) or higher in all work attempted as an upper-division student, normally the 60 semester hours taken during the last two years of baccalaureate study, or b. An earned graduate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution.
(2) Applicants who hold baccalaureate degrees from an international institution must submit a course-by-course degree evaluation from a UNF and NACES approved evaluation service or, on exception, a course-by-course evaluation performed by the University's International Center.
(3) Additionally, all applicants to master's programs must meet the following specific requirements:
a. Each master's program may determine other requirements for admission (e.g., standardized test scores, written essays, an interview), consistent with their mission and purpose. Any additional admissions requirements so imposed by masters programs must be approved by the Dean of the Graduate School and published annually in the Graduate Catalog and on the program website area of the Graduate School for the masters program; further, such requirements shall be reviewed and updated annually.
b. These requirements shall not include preferences in the admissions process for applicants on the basis of any category protected by law.
c. The submitted materials must be used in the context of a holistic credential review process.
(4) Additionally, all applicants to doctoral programs must meet the following specific requirements:
a. Each applicant to a doctoral degree program shall present standardized test scores that are acceptable for the program to which the student is applying. Acceptable tests include the Graduate Record Examination (verbal, quantitative, and writing), the Miller's Analogies Test, or the GMAT, whichever is deemed most appropriate by the program. Students, including international students, who already have a graduate degree obtained from a regionally accredited institution in the same or in a related area are not required to take the standardized test unless it is required by the program.
b. Each doctoral program may determine other requirements for admission (e.g., letters of recommendation, a resume or a curriculum vita, a written essay, an interview) consistent with their mission and purpose. Any additional admissions requirements so imposed by doctoral programs must be approved by the Dean of the Graduate School and published annually in the Graduate Catalog and on the website area of the Graduate School for the program; further, such requirements shall be reviewed and updated annually.
c. The submitted materials must be used in the context of a holistic credential review process annually.
d. These requirements shall not include preferences in the admissions process for applicants on the basis of any category protected by law.
(5) The University may grant a limited number of exceptions to those applicants who do not meet the basic admission requirements. All applicants requesting an exception must submit GRE, GMAT, or MAT scores, as appropriate, prior to making the request. Students granted an exception will be placed in a provisional admission status for the graduate degree program that they wish to enter. Continuation as a graduate student will depend upon successful completion of provisional admission requirements and any subsequent work.
(6) Applicants from countries where the official language is other than English must achieve the minimum required test scores on the TOEFL or University of Cambridge IELTS as set by the University of North Florida.
(7) The following are required of all applicants:
a. Application for admission;
b. Non-refundable application fee in the amount set forth by the university;
c. Transcripts from each college attended, whether or not credits were earned;
d. Standardized Test Scores - only if required by the individual graduate program.
(8) Admission to graduate study is granted on an individual basis with a review of the entire academic record of the applicant, including quality of past performance, standardized test scores (if required), appropriateness of work taken, and suitable professional experience. To ensure that all pertinent application materials are received in time, applications for admission must be received by the published deadlines of the university and of the program to which the application is being made.

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## Graduate Certificate Programs

Credit bearing, graduate certificate programs are comprised of related courses that constitute a coherent body of study within a discipline. These programs must be approved through the university and faculty governance processes. Furthermore, these programs must establish student-learning outcomes and assess the extent to which students achieve these outcomes. This is done via the Graduate Academic Learning Compact (GALC). Additional information about the assessment of learning outcomes can be found in the GALC policy. GALC must be developed for all graduate certificate programs.

The number of graduate credits within a graduate certificate program cannot be less than 9 or more than one-half of the credits necessary for a related master's degree. Certificate programs approved prior to the implementation of this policy are exempt from these credit limitations.

Student pursuing a graduate certificate will be required to meet the same academic requirements as those defined for degree-seeking students to remain in "good standing."

All graduate certificate students must meet all prerequisites for courses in which they wish to enroll.

## Application of Credits towards Degree programs

When concurrently enrolled in a graduate degree program, and with the approval of the sponsoring college, students can apply required coursework to both the graduate certificate program and, if applicable, their chosen graduate degree program. Students cannot return for a retroactive certificate award following graduation. Students who have graduated from a degree program and wish to return to pursue a graduate certificate will need to apply to the Graduate School, and the specific certificate program, and pay a new application fee.

If a student later returns to UNF to earn a graduate degree, up to 12 hours of UNF credit earned as a graduate certificate student may be applied to satisfy graduate degree requirements. Any application of such credit must be approved by the graduate program and must be appropriate to the program. It should be noted that not all programs allow credit earned as part of a graduate certificate to be applied towards a similar graduate degree.

## Completion of program requirements

Students are subject to the individual requirements of the graduate certificate program and will need to complete at least fifty percent of the required coursework in residence at the university (e.g., face-to-face, distance learning). Successful completion of the graduate certificate program will be noted on the student's official transcript separately from his or her degree program.

The graduate certificate is not viewed as a guaranteed means of entry into a graduate degree program.

## Admissions to Graduate Certificate Programs

Currently enrolled UNF students who wish to pursue a graduate certificate program are required to apply through the graduate school and be accepted to the desired program in accordance with program-specific admissions criteria. No application fee is required.

1. All students applying for graduate level certificate programs will submit an application to The Graduate School.
2. The Graduate School will refer the application to the appropriate department for an admission decision.
3. Each program will develop its own admission criteria for certificate programs.
4. Acceptance to the graduate certificate program is dependent on student eligibility and, if required, departmental approval.

## Certificate and Transcripts

Once the program coursework is satisfied the student may be eligible to receive a document acknowledging completion that is separate from a diploma conferral. Printing and conferring all completion documents from university certificate programs will be the sole responsibility of the Registrar and the Office of Enrollment Services Processing. All materials required to print and package the completion documents will also be housed within the Enrollment Services Processing Office.


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## College of Computing, Engineering and Construction Graduate Degrees

## Links to Programs of Study:

- Civil Engineering - Geotechnical/Structural, MSCE
- Civil Engineering - Water Resources/Environmental, MSCE
- Computing \& Information Sciences - Computer Science, MS
- Computing \& Information Sciences - Information Systems, MS
- Computing \& Information Sciences - Software Engineering, MS
- Electrical Engineering, MSEE
- Mechanical Engineering, MSME


## Summary Program Descriptions:

- Computer Science Program
- Information Systems Program
- Software Engineering Program
- Master of Science in Civil Engineering
- Master of Science in Electrical Engineering
- Master of Science in Mechanical Engineering

The College of Computing, Engineering and Construction offers graduate degrees in the fields of Computer Science, Information Systems, Software Engineering, Civil Engineering, Electrical Engineering, and Mechanical Engineering. The College partners with the Coggin College of Business to support an M.B.A. concentration in Construction Management.

The College's M.S. programs are designed to be the next academic step for graduates of undergraduate computing and engineering programs accredited by ABET or construction management degree programs accredited by ACCE. Students will be engaged in a rigorous academic program and will work with exceptional faculty members on research projects designed to respond to current challenges in the respective disciplines. Upon completion of CCEC masters' degrees, graduates are prepared to continue their graduate education at the doctoral level or to obtain advanced positions in industry.

## Computer Science Program (MS)

The Computer Science Program for the M.S. in Computer and Information Sciences is designed to add breadth and depth to a typical bachelor's degree program in computer science. Breadth must be demonstrated in the areas of computer networks, operating systems, algorithms, and databases.

Depth must be accomplished in the areas of graphics/interfaces, networks, advanced systems, and data/language paradigms. Overall mastery of the discipline is demonstrated by submission of a master's thesis.

An academic background in Computer Science is required for entry into the program. Grades of " B " or above are expected in any preparatory course work taken at UNF.

## Information Systems Program (MS)

The Information Systems Program for the M.S. in Computer and Information Sciences is designed to build upon a bachelor's degree program in information systems that has substantial content in both software development and business practice. Technical core content provides hands-on software engineering that addresses software life-cycle, database engineering, and project management issues. Business core content is oriented towards e-commerce issues in management, marketing, and finance. Additional technical coursework in software engineering assures depth in one or more additional subject areas. Overall mastery of the discipline is demonstrated by submission of a master's thesis.

An academic background in Information Systems is required for entry into the program. Grades of " B " or above are expected in any preparatory course work taken at UNF.
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## Software Engineering Program (MS)

The Software Engineering Program for the M.S. in Computer and Information Sciences is designed to build upon a CIS bachelor's degree program, which has substantial content in software development. Core content for the program emphasizes hands-on software engineering as practiced in this day and time. Additional coursework in software engineering assures depth in one or more subject areas. Experience in the practice of software engineering is emphasized by participation in a "real-world" supervised group project. Overall mastery of the discipline is demonstrated by submission of a master's thesis.

An academic background that includes software development principles and techniques is required for entry into the program. Grades of " B " or above are expected in any preparatory course work taken at UNF.

## Master of Science in Civil Engineering (MSCE)

The program of study consists of 30 credit hours. Students must select one of two focus areas: (1) geotechnical/structural or (2) water resources/environmental. All programs of study must be approved by the graduate program director before the end of the second semester of graduate study. Programs of study may be modified with the approval of the graduate program director. All programs of study must contain at least 18 credits of 6000 -level courses (including thesis and project credits).

## Master of Science in Electrical Engineering (MSEE)

The program of study consists of 30 credit hours. Students must select one of three concentrations (communications, computer, or controls and signal processing) and take at least six credit hours in that concentration. Every student must also take the required course EGN 6456 - Advanced Engineering Analysis. The remaining course work is chosen from other concentration courses or approved elective courses. All programs of study must be approved by the graduate program director before the end of the second semester of graduate study. Programs of study may be modified with the approval of the graduate program director. All programs of study must contain at least 18 credit hours of 6000 -level courses (including thesis and project credits).

## Master of Science in Mechanical Engineering (MSME)

The program of study consists of 30 credits. While there are no formal tracks or concentrations in the MSME program, the program of study generally focuses on the machine sciences or thermofluids areas of mechanical engineering. All programs of study must be approved by the graduate program director before the end of the second semester of graduate study. Programs of study may be modified with the approval of the graduate program director. All programs of study must contain at least 18 credits of 6000-level courses (including thesis and project credit hours).


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## CCEC Distance Learning Any Time, Any Place

## R. Elaine Poppell, Sr. Broadcast Technologist <br> rpoppell@unf.edu (904) 620-1876

Email: cec-dl@unf.edu

In addition to traditional face-to-face, online, and hybrid courses, the College of Computing, Engineering and Construction (CCEC) offers a variety of classes which are recorded live in the Video Production Classroom and web cast over the Internet for live and video-on-demand streaming. Lectures are available in a high quality mpeg-4 video format, and can be accessed by Distance Learning students any time, any place with a high-speed Internet connection. Students may view lectures on their desktop computer, laptop, tablet, smart phone, or other mobile device.

Each distance learning class is the equivalent of an on-campus section of the same course, and like on-campus students, Distance Learning students receive full access to campus resources. Distance Learning students must also meet stated prerequisites where applicable, and adhere to assignment/project deadlines.

CCEC Distance Learning at UNF provides students with the highest quality 'e-Learning' experience possible. Students have the benefit of flexible class scheduling, and may access video lectures whenever, and as often as they like.

Distance Learning Fee: A fee of $\$ 25$ per credit hour will be assessed for students enrolling in Distance Learning sections of video-based courses conducted in the CCEC Video Production Classroom to help supplement the additional costs involved in delivering these classes. The fee is only a partial recovery of total expenses.

For more information, visit http://www.unf.edu/ccec/dl/

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## College of Computing, Engineering and Construction Student Groups and Organizations

Faculty from the College sponsor student chapters in the disciplines. These organizations provide students with important professional contact groups in Jacksonville and throughout the national computing community. See the units' web pages for more information.

## School of Computing

- Association for Computing Machinery (ACM)
- Association of Information Technology Professionals (AITP)
- Institute of Electrical and Electronics Engineers (IEEE-CS)
- Upsilon Pi Epsilon Honor Society for the Computing Sciences (UPE)
- UNF Gaming and Applications Development Club (GAD)


## School of Engineering

- American Society of Mechanical Engineering (ASME)
- Institute of Electrical and Electronics Engineers (IEEE)
- American Society of Civil Engineers (ASCE)
- American Society of Highway Engineers (ASHE)
- Florida Structural Engineering Association (FSEA)
- American Society of Heating, Ventilation and Air Conditioning (HVAC)
- Society of Automotive Engineers (SAE)
- Florida Engineering Society (FES)
- Society of Women Engineers (SWE)


## Construction Management

- Sigma Lambda Chi Honor Society (SLC)

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## Major: Computing \& Info Sciences <br> Concentration: Computer Science <br> Degree: Bachelor of Science

Informational Text
Bachelor of Science in Computing \& Information Sciences: (120 credit hours, including a min 54 upper level hrs)

- All course work must be completed with a grade of ' $C$ ' or better, unless otherwise noted.
- Once enrolled at UNF, any remaining prerequisites for the major / minor must be completed at UNF.
- 
- *** CIS Satisfactory Progress Policy ***

Students who do not successfully complete a CIS prerequisite or core requirement on the first attempt, including W, WP, or WF, will have one chance to repeat the course. Unsuccessful completion after two attempts will block registration for future computing courses.

- Exit Requirements:

1. Proficiency in a high-level programming language.
2. Spoken Presentation: To apply oral communications skills in the program, you will deliver up to two presentations in computing courses. If the first presentation is satisfactory, a second presentation will be waived.

Prerequisites
Computer Science Prerequisites: ( 9 courses -27.0 semester hours)
CALCULUS 8.0 hours
MAC 2311 Calculus I
MAC 2312 Calculus II
COP 2220 Computer Science I
' C ' is preferred and will be used in subsequent courses.
PHYSICS Calc-based Physics I \& Lab
PHY 2048 University Physics I
PHY 2048L University Physics I Lab
(PHY2048C is an acceptable substitute.)
PHYSICS II Calc-based Physics II \& Lab
PHY 2049 University Physics II
PHY 2049L University Physics II Lab
(PHY2049C is an acceptable substitute.)
SCIENCE 6.0 hrs of additional science
Select 2 science courses for science majors.***
Appropriate prefixes include:
APB, AST, BCH, BOT, BSC, CHM, CHS, ESC, GLY, ISC, MCB, PCB, PHY, PHZ, PSC, ZOO.
--The following UNF courses, and courses with equivalent content, are acceptable for fulfilling the "science for science majors" requirement:
AST2002 Astronomy, BSC1010C General Biology I, BSC1011C General Biology II,
CHM2045C General Chem I, CHM2046C General Chem II, and ESC2000
(GLY2001C) Earth Science.
--The following UNF courses *cannot* be used:
BSC1005, BSC1930, PCB2050, BCH3023C, CHM1025C, PHY1020C, PHY2053/54, PSC3730.
-Consult with a CIS advisor before taking any other science. ***

Computer Science Foundation and Core: (8 courses - 27.0 semester hours)
[CIS4253 Ethics required beginning Fall2006]
SPEECH Select any public speaking*SPC
COT3100 Computational Structures (3 Credits)
COP3503 Computer Science II (3 Credits)
COP3530 Data Structures (4 Credits)
COP3404 Intro to Systems Software (4 Credits)
(renumbered from COP3601 in Fall 2011)
CDA3101 Introduction Computer Hardware (4 Credits)
COT3210 Computability And Automata (3 Credits)
CIS4253 Legal \& Ethical Iss in Comput (3 Credits)

Major Requirements (16 credits)
Computer Science Major Requirements: (5 courses - 16 semester hours)
SELECT ONE of the following courses:

- CDA 4503 (CNT4504) Networks/Distributed Processing
- COP 4813 Internet Programming

COP4710 Data Modeling (3 Credits)
COP4610 Operating Systems (3 Credits)
COP4620 Constr of Language Translators (4 Credits)
CEN4010 Software Engineering (3 Credits)
(renumbered from CIS4251 in Fall 2011)

## Major Electives (9 credits)

Computer Science Major Electives: (3 courses - 9.0 semester hours)
SELECT Three Courses - min 9.0 hours
Select 3 Courses for a minimum of 9.0 hours: ***

- CAP 4630 Intro to Artificial Intelligence
- CAP 4660C AI Robotics
- CAP 4710 Computer Graphics
- CAP 4770 Data Mining
- CEN 4510 Computer Communications
- CEN 4516 Networks/Distributed Processing
- CDA 4503 (CNT4504) Computer Networks/Distrib Process
- CEN 4610 Knowledge Engineering
- CEN 4943 Software Development Practicum
- CEN 4801 Systems Integration
- CIS 4362 Computer Cryptography
- COP 4300 (CAP 4831) Discrete Systems Modeling/Simulation
- COP 4813 Internet Programming
- COT 4400 Analysis of Algorithms
- COT 4560 Applied Graph Theory
- CDA 4102 Intro to Computer Architecture
- and CDA 4102L Intro to Computer Architecture Lab
-- (Note CDA4102 must be taken with lab.)
-- Other qualifying elective courses may be offered as Special Topics. See School of
Computing for list of approved courses.
-- Directed Independent Study courses may not be used to satisfy major or minor electives without prior permission from SoC Director.


## Contextual Courses

Computer Science Contextual Courses: (2 courses - 8.0 semester hours)
An overall average of $C$ or better is required in the contextual coursework.

MAS3105 (GM) Linear Algebra (4 Credits)
STA4321 (GM)Probability and Statistics (4 Credits)

## Exit Requirement

Exit Requirement: Computer \& Information Sciences Oral Communication (Spoken Presentation)
To apply oral communications skills in the program, all CIS majors will deliver up to two presentations in computing courses for evaluation of presentation skills. If the first presentation is satisfactory, a second evaluated presentation will be waived.

## Electives

Select additional courses as necessary to attain 54 upper level (3000-4000) hours.
The Computer Science major requirements provide 57 upper hours.
UPPER-LVL FREE ELECTIVES (3000-4000) **

Electives
Select additional courses as necessary to attain a total of 120 hours. This area may include hours at any level (1000-4000).
[Advisor will adjust this area based on individual needs.]
ANY-HOURS FREE ELECTIVES (1000-4000) **

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## Major: Computing \& Info Sciences <br> Concentration: Information Science <br> Degree: Bachelor of Science

Informational Text
Bachelor of Science in Computing \& Information Sciences: (120 credit hours, including a min 54 upper level hrs)

- All course work must be completed with a grade of ' $C$ ' or better, unless otherwise noted.
- Once enrolled at UNF, any remaining prerequisites for the major / minor must be completed at UNF.
- 
- *** CIS Satisfactory Progress Policy ***

Students who do not successfully complete a CIS prerequisite or core requirement on the first attempt, including W, WP, or WF, will have one chance to repeat the course. Unsuccessful completion after two attempts will block registration for future computing courses.

- Exit Requirements:

1. Proficiency in a high-level programming language.
2. Spoken Presentation: To apply oral communications skills in the program, you will deliver up to two presentations in computing courses. If the first presentation is satisfactory, a second presentation will be waived.

## Prerequisites

Information Science Prerequisites: (4 courses - 12.0 semester hours)
All course work must be completed with a grade of $C$ or better.
MAC2233 (GM)Calculus for Business (3 Credits)
(MAC2311 may be used.)
CGS1570 Microcomputer Applica Software (3 Credits)
STA2023 (GM) Elem Statistics-Business (3 Credits)
(STA2014 may be used.)
COP2551 Introduction to OO Programming (3 Credits)
Java, an object oriented language, is preferred and will be used in subsequent courses.

## Foundation

Information Science Foundation: (4 courses - 13.0 semester hours)
SPEECH Select any public speaking*SPC
COP2010 Intro to Visual Proc Prog (3 Credits)
COP 2010 or a procedural programming language is required. Visual BASIC is
preferred and will be used in subsequent courses.
COT3100 Computational Structures (3 Credits)
COP3855 Web Access and System Design (4 Credits)

Core Requirements
Information Science Core Requirements: (3 courses - 10.0 semester hours)
COP3538 Data Structures Using OOP (4 Credits)
(renumbered from COP3540 in Fall 2011)
COP4640 OS Env Admin (3 Credits)
CIS4253 Legal \& Ethical Iss in Comput (3 Credits)

Information Science/Systems Major Requirements: (4 courses - 12.0 semester hours)
COP4720 Database Systems (3 Credits)
CIS4327 Information Syst Sr Project I (3 Credits)
CIS4328 Information Syst Sr Project II (3 Credits)
CDA4503 Computer Networks/Dist Process (3 Credits)

Major Electives (12 credits)
Information Science Major Electives: (4 courses - 12.0 semester hours)
SELECT Four Courses - min 12.0 hours*
Select 4 Courses for a minimum of 12.0 hours:

- CAP 4730 Graphic Systems/Applications
- CAP 4020 Multimedia Systems
- CAP 4770 Data Mining
- CAP 4772 Data Warehousing
- CDA 3101 Intro Computer Hardware
- CDA 4503 (CNT4504) Comp Networks/Distributed Processing
- CDA 4011 (4010) Office Automation/Human Factors
- CEN 4516 Networks/Distributed Processing
- CEN 4801 Systems Integration
- CIS 4100 System Performance/Evaluation
- CIS 4362 Computer Cryptography
- CIS 4510 Expert Systems/Decision Support
- COP 3543 Enterprise Computing
- COP 4640 Operating Systems Environments
- COP 4722 Database Systems II
- COP 4813 Internet Programming
- COP 4723 Database Administration
- COT 4560 Applied Graph Theory
-- Other qualifying elective courses may be offered as Special Topics. See School of Computing for list of approved courses.
-- Directed Independent Study courses may not be used to satisfy major or minor electives without prior permission from SoC Director.


## Exit Requirement

Exit Requirement: Computer \& Information Sciences Oral Communication (Spoken Presentation) To apply oral communications skills in the program, all CIS majors will deliver up to two presentations in computing courses for evaluation of presentation skills. If the first presentation is satisfactory, a second evaluated presentation will be waived.

## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Electives

Select additional courses as necessary to attain 54 upper level (3000-4000) hours.
*Note: This area is MET by default, initially. Should more upper hours be required, it will be adjusted.*
The Info Science major requirements provide 41 upper hours, plus those provided by the minor. The Info Systems major provides 56 upper hours.
*(This total will be adjusted by advisor depending on hours used in other areas.)

Select, as necessary, additional courses at any level (1000-4000) to attain 120 hours.
(The usual amount is 3.0 hrs at any level. This total may be adjusted by advisor depending on hours used in other areas.)

ANY-LEVEL FREE ELECTIVES (1000-4000)

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## Major: Computing \& Info Sciences <br> Concentration: Information Sys/Business Minor <br> Degree: Bachelor of Science

Informational Text
Bachelor of Science in Computing \& Information Sciences: (120 credit hours, including a min 54 upper level hrs)

- All course work must be completed with a grade of ' $C$ ' or better, unless otherwise noted.
- Once enrolled at UNF, any remaining prerequisites for the major / minor must be completed at UNF.
- 
- *** CIS Satisfactory Progress Policy ***

Students who do not successfully complete a CIS prerequisite or core requirement on the first attempt, including W, WP, or WF, will have one chance to repeat the course. Unsuccessful completion after two attempts will block registration for future computing courses.
-

- Exit Requirements:

1. Proficiency in a high-level programming language.
2. Spoken Presentation: To apply oral communications skills in the program, you will deliver up to two presentations in computing courses. If the first presentation is satisfactory, a second presentation will be waived.

## Prerequisites

Information System Prerequisites: (8 courses - 24.0 semester hours)
All course work must be completed with a grade of $C$ or better.
Note: UNF requires two high level programming languages for Info Systems majors. COP2010 is also required.

```
ACG2021 Prin of Financial Accounting (3 Credits)
ACG2071 Prin Managerial Accounting (3 Credits)
ECO2013 Principles of Macroeconomics (3 Credits)
ECO2023 Principles of Microeconomics (3 Credits)
STA2023 (GM) Elem Statistics-Business (3 Credits)
    STA2023 is preferred. STA2122 may be used.
MAC2233 (GM)Calculus for Business (3 Credits)
CGS1570 Microcomputer Applica Software (3 Credits)
    CGS1570 is preferred. CGS1100 or CGS1060 may be used.
COP2551 Introduction to OO Programming (3 Credits)
    Java, an object oriented language, is preferred and will be used in subsequent
    courses.
```

Foundation
Information Systems Foundation: (4 courses - 13.0 semester hours)
SPEECH Select any public speaking*SPC
COP2010 Intro to Visual Proc Prog (3 Credits)
Visual BASIC is preferred and will be used in subsequent courses.
COT3100 Computational Structures (3 Credits)
COP3855 Web Access and System Design (4 Credits)

## Core Requirements

Information Systems Core Requirements: (6 courses - 19.0 semester hours)

COP3538 Data Structures Using OOP (4 Credits) COP4640 OS Env Admin (3 Credits)
CIS4253 Legal \& Ethical Iss in Comput (3 Credits)
ISM4011 Intro Management Info Systems (3 Credits)
MAN3025 Administrative Management (3 Credits)
FIN3403 Financial Management (3 Credits)

Major Requirements (12 credits)
Information Science/Systems Major Requirements: (4 courses - 12.0 semester hours)
COP4720 Database Systems (3 Credits)
CIS4327 Information Syst Sr Project I (3 Credits)
CIS4328 Information Syst Sr Project II (3 Credits)
CDA4503 Computer Networks/Dist Process (3 Credits)

Major Electives (12 credits)
Information Systems Major Electives: (4 courses - 12.0 semester hours)
SELECT Four Courses - min 12.0 hours*
Select 4 Courses for a minimum of 12.0 hours:

- CAP 4730 Graphic Systems/Applications
- CAP 4020 Multimedia Systems
- CAP 4770 Data Mining
- CAP 4772 Data Warehousing
- CDA 3101 Intro Computer Hardware
- CDA 4503 (CNT4504) Comp Networks/Distributed Processing
- CDA 4011 (4010) Office Automation/Human Factors
- CEN 4516 Networks/Distributed Processing
- CEN 4801 Systems Integration
- CIS 4100 System Performance/Evaluation
- CIS 4362 Computer Cryptography
- CIS 4510 Expert Systems/Decision Support
- COP 3543 Enterprise Computing
- COP 4640 Operating Systems Environments
- COP 4722 Database Systems II
- COP 4723 Database Administration
- COT 4560 Applied Graph Theory
- COP 4813 Internet Programming
- MAN 4082 e-Business Strategy
- MAN 4583 Project Management
-- Other qualifying elective courses may be offered as Special Topics. See School of Computing for list of approved courses.
-- Directed Independent Study courses may not be used to satisfy major or minor electives without prior permission from SoC Director.


## Minor Electives (6 credits)

Information Systems Minor Electives: (2 courses - 6.0 semester hours)
SELECT 2 courses -6.0 hours from:

- BUL 3130 Legal Envir of Business
- MAN 3504 Prod-Oper-Logistics Mangmnt
- MAR 3023 Princ of Marketing

Note: A total of 12 upper level hours of business courses must be taken at UNF.

Exit Requirement
Exit Requirement: Computer \& Information Sciences Oral Communication (Spoken Presentation)
To apply oral communications skills in the program, all CIS majors will deliver up to two
presentations in computing courses for evaluation of presentation skills. If the first presentation is
satisfactory, a second evaluated presentation will be waived.

## Electives

Select additional courses as necessary to attain 54 upper level (3000-4000) hours.
*Note: This area is MET by default, initially. Should more upper hours be required, it will be adjusted.*
The Info Science major requirements provide 41 upper hours, plus those provided by the minor.
The Info Systems major provides 56 upper hours.
*(This total will be adjusted by advisor depending on hours used in other areas.)
UPPER-LVL FREE ELECTIVES (3000-4000)

Electives
Select, as necessary, additional courses at any level (1000-4000) to attain 120 hours.
(The usual amount is 3.0 hrs at any level. This total may be adjusted by advisor depending on hours used in other areas.)

ANY-LEVEL FREE ELECTIVES (1000-4000)

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## Major: Computing \& Info Sciences <br> Concentration: Information Technology <br> Degree: Bachelor of Science

Informational Text
Bachelor of Science in Computing \& Information Sciences: (120 credit hours, including a min 54 upper level hrs)

- All course work must be completed with a grade of ' $C$ ' or better, unless otherwise noted.
- Once enrolled at UNF, any remaining prerequisites for the major / minor must be completed at UNF.
- 
- *** CIS Satisfactory Progress Policy ***

Students who do not successfully complete a CIS prerequisite or core requirement on the first attempt, including W, WP, or WF, will have one chance to repeat the course. Unsuccessful completion after two attempts will block registration for future computing courses.
-

- Exit Requirements:

1. Proficiency in a high-level programming language.
2. Spoken Presentation: To apply oral communications skills in the program, you will deliver up to two presentations in computing courses. If the first presentation is satisfactory, a second presentation will be waived.

## Prerequisites

Information Technology Prerequisites: (5 courses - 15.0 semester hours)
All course work must be completed with a grade of $C$ or better.
MAC2233 (GM)Calculus for Business (3 Credits)
CGS1570 Microcomputer Applica Software (3 Credits)
STA2023 (GM) Elem Statistics-Business (3 Credits)
SPEECH Select any public speaking*SPC
COP2551 Introduction to OO Programming (3 Credits)
JAVA or an equivalent object-oriented programming course is required. Java will be used in subsequent courses. A second language is recommended.

Core Requirements ( 26 credits)
Information Technology Core Requirements: (8 courses - 26.0 semester hours)
COT3100 Computational Structures (3 Credits)
COP3538 Data Structures Using OOP (4 Credits)
(renumbered from COP3540 in Fall 2011)
CGS4307 Info Proc: Organizational Pers (3 Credits)
CGS4308 Info Proc: Req Identi Spec (3 Credits)
CDA3101 Introduction Computer Hardware (4 Credits)
CDA4503 Computer Networks/Dist Process (3 Credits)
CIS4253 Legal \& Ethical Iss in Comput (3 Credits)
CIS4360 Gen Cmp Security Adm (3 Credits)

Major Requirements
Information Technology Major Requirements: Select one concentration (12.0-15.0 hours)
C 1. Computer Networking
*Concentration in Computer Networking: (12 hrs)

- COP 4813 Internet Programming
- CNT 4704 (CDA 4527) Network Design/Planning
- CNT 4406 (CIS 4363) Network Security/Management
- CIS 4100 Systems Performance \& Evaluation (replaces CIS 4103 Web Performance)

C 2. Gaming and Mobile Applications
*Concentration in Gaming and Mobile Applications: (14 hrs)

- CNT 4514C (CEN 4533C) Wireless/Mobile Computing (4)
- CEN 4535C Development of Gaming/Mobile Applications (4)
- CIS 4593 Gaming and Mobile Apps Capstone I
- CIS 4594 Gaming and Mobile Apps Capstone II

C 3. Computer Security Admin
*Concentration in Computer Security Administration: (15 hrs)

- CIS 4365 Security \& Disaster Preparedness
- CIS 4615 Evaluating Software for Security
- CNT 4406 Network Security and Management
- CIS 4364 IS Intrusion Detection
- CIS 4366 Computer Forensics

Technical Electives (12 credits)
Information Technology Technical Electives: (minimum of 12.0 hours -4 courses)
SELECT 12hrs upper technology courses
Select a minimum of 12 hrs of upper level courses from the following subject areas:
CAP, CDA, CEN, CIS, CNT, COP, COT
[**NOTE: 3000-level programming courses are excluded**]
-- Other qualifying elective courses may be offered as special topics. See School of Computing for list of approved courses.
-- Directed Independent Study courses may not be used to satisfy major or minor electives without prior permission from SoC Director. (****)

## Exit Requirement

Exit Requirement: Computer \& Information Sciences Oral Communication (Spoken Presentation) To apply oral communications skills in the program, all CIS majors will deliver up to two presentations in computing courses for evaluation of presentation skills. If the first presentation is satisfactory, a second evaluated presentation will be waived.

## Electives

ITech Free Electives - Upper (1.0-4.0 credits, depending on IT concentration selected.)
Select additional courses as necessary to attain 54 upper level (3000-4000) hours.
The Info Technology major requirements provide at least 50 upper hours. Free electives (or a minor) provide the remaining hours.
(This total may be adjusted by advisor depending on hours used in other areas.)
UPPER-LVL FREE ELECTIVES (3000-4000)
Electives (21 credits)
Select additional courses as necessary to attain 120 hours.
(66 hrs beyond the 54 upper are required. These are usually: gen ed (36) + IT prereqs (12) + free electives (21) *. [*assumes calc \& stats are used in gen ed.] This total may be adjusted by advisor depending on hours used in other areas.)

## Table of Contents

Major: Computing \& Info Sciences<br>Concentration: Computer Science<br>Degree: Master of Science

Major Requirements (36 credits)
Computer Science Requirements: ( 36.0 credit hours)
Conditions for the Masters:

- 1. All courses applied to the degree must be completed with a grade of ' B ' or better.
- 2. A minimum of 21 credit hours must be taken at the 6000 -level in the School of Computing.
- 3. No more than 6 credit hours taken outside of the School can be included in the degree.
- 4. No more than 15 credit hours of 5000 -level courses can be applied to the degree.
- 5. No more than 6 credit hours of Directed Independent Study can be applied to the degree.
- 6. GPA of 3.0 or better must be maintained. A GPA below 3.0 or a grade of ' $C$ ' in three courses results in automatic probation.
- 7. A student on probation who subsequently receives a ' C ' is subject to suspension. Receipt of a grade below ' $C$ ' results in immediate eligibility for suspension.


## Comp Sci - Depth

Depth Requirement: (4 courses - 12.0 hrs )
Select one course from each group of two shown.

## SELECT-A One:

CAP6100 Interface Design and Implementation
CAP6400 Graphics Image Recognition/Manipulation
SELECT-B One:
CDA6506 Network Architecture \& Client/Server Computing
CIS6302 Distributed and Internet Systems
SELECT-C One:
COP6611 Advanced Operating Systems
COP6616 Parallel Computing
SELECT-D One:
COP6735 Developments in Database Structures
COP6557 Programming Language Design Paradigms

## Comp Sci - Breadth\&Major Reqs

Major Requirements: (4 courses - 12.0 hrs )
Breadth + Major requirements must equal a total of 12 semester hours.

* Any hours short of 12 in the Breadth category must be selected from the Major Req list below.
* Courses may not count for both the Depth and Major requirements.


## BREADTH Requirement: (optional)

The following courses must be taken if the equivalent was not covered in undergraduate studies.

- CDA5505 Networks \& Distributed Systems
- COP5615 Operating Systems
- COP5716 Data Modeling \& Performance
- COT5405 Algorithms \& Complexity

MAJOR Requirements:

Any hours short of 12 in the Breadth category must be selected from the list below.
Courses may not count for both the Depth and Major requirements.

- CAP6100 Interface Design \& Implementation
- CAP6400 Graphics Image Recognition/Manipulation
- CAP6671 Intelligent Systems
- CDA6011/CEN6036 Web Engineering
- CDA6506 Network Arch Client/Server Computing
- CIS6302 Distributed and Internet Systems
- COP6557 Programming Language Design Paradigms
- COP6611 Advanced Operating Systems
- COP6616 Parallel Computing
- COP6735 Developments in Database Structures


## CS \& SE - Research + Electives

Thesis and Major Electives: (12.0 hrs)
Enroll in the Thesis course CIS 6970 for at least two successive terms. In order to enroll in the Thesis course, the student must obtain the approval of the Graduate Director and a Thesis Advisor. Upon satisfactory completion of the Thesis, the student defends the Thesis in an open presentation to the satisfaction of the student's Thesis Committee.

## RESEARCH Thesis --

CIS 6970 Thesis ( 6.0 hrs )
ELECTIVES ( 6 hrs for total 12 hrs )
Select sufficient credits at the graduate level to earn a total of 36.0 hours.
CAP CDA CEN CIS CNT COP COT

- Select at least 6 credits of electives.

Note: CEN 6016 Engineering of Software I must be elected if the student's undergraduate coursework does not include a course equivalent to CIS 4251 Software Development.

## Table of Contents

## Major: Computing \& Info Sciences <br> Concentration: Information Systems <br> Degree: Master of Science

Major Requirements (36 credits)
Information Systems Requirements: (36.0 credit hours)
Conditions for the Masters:

- 1. All courses applied to the degree must be completed with a grade of ' B ' or better.
- 2. A minimum of 21 credit hours must be taken at the 6000 -level in the School of Computing.
- 3. No more than 6 credit hours taken outside of the School can be included in the degree.
- 4. No more than 15 credit hours of 5000 -level courses can be applied to the degree.
- 5. No more than 6 credit hours of Directed Independent Study can be applied to the degree.
- 6. GPA of 3.0 or better must be maintained. A GPA below 3.0 or a grade of 'C' in three courses results in automatic probation.
- 7. A student on probation who subsequently receives a ' C ' is subject to suspension. Receipt of a grade below ' $C$ ' results in immediate eligibility for suspension.


## Information Systems Core

Info Systems Core Requirements: (7 courses - 21.0 hrs )
includes 12 hrs of Information Systems courses and 9.0 hrs of Business courses.
CEN6016 Engineering of Software I (3 Credits)
CEN6017 Engineering of Software II (3 Credits)
COP6711 Database Engineering/Administr (3 Credits)
ISM6021 Mgmt Information Technology (3 Credits)
MAN6785 E-Business Strategy (3 Credits)
SELECT_IS One from Info Systems:
CIS6516 Managing Software Projects \& Personnel
MAN6026 Project Management
SELECT_BS One from Business:
MAR6726 Marketing on the Internet
MAN6875 Entrepreneurship \& Venture Capital

## Info Sys - Research+Electives

Thesis and Major Electives: (15.0 hrs)
Enroll in the Thesis course CIS 6970 for at least two successive terms. In order to enroll in the Thesis course, the student must obtain the approval of the Graduate Director and a Thesis Advisor. Upon satisfactory completion of the Thesis, the student defends the Thesis in an open presentation to the satisfaction of the student's Thesis Committee.

RESEARCH Thesis --
CIS 6970 Thesis ( 6.0 hrs )
ELECTIVES (9 hrs for total of 15 hrs )
Select sufficient credits at the graduate level to earn a total of 36.0 hours.
CAP CDA CEN CIS CNT COP COT

- Select at least 9 credits of electives.


## Table of Contents

Major: Computing \& Info Sciences<br>Concentration: Software Engineering<br>Degree: Master of Science

Major Requirements (36 credits)
Software Engineering Requirements: (36.0 credit hours)
Conditions for the Masters:

- 1. All courses applied to the degree must be completed with a grade of ' B ' or better.
- 2. A minimum of 21 credit hours must be taken at the 6000 -level in the School of Computing.
- 3. No more than 6 credit hours taken outside of the School can be included in the degree.
- 4. No more than 15 credit hours of 5000 -level courses can be applied to the degree.
- 5. No more than 6 credit hours of Directed Independent Study can be applied to the degree.
- 6. GPA of 3.0 or better must be maintained. A GPA below 3.0 or a grade of 'C' in three courses results in automatic probation.
- 7. A student on probation who subsequently receives a ' C ' is subject to suspension. Receipt of a grade below ' $C$ ' results in immediate eligibility for suspension.


## Softw Engr - Core Reqs

Core Requirement: (4 courses - 12.0 hrs )
CEN6016 Engineering of Software I (3 Credits)
CEN6017 Engineering of Software II (3 Credits)
CEN6070 Software Quality Assur \& Test (3 Credits) COP6711 Database Engineering/Administr (3 Credits)

## Soft Engr - Major + Practicum

Major Requirements \& SE Practicum: (4 courses - 12.0 hrs )
CEN6940 Software Engineering Practicum (3 Credits)
SELECT 3 THREE:

- CAP6100 Interface Design/Implementation
- CDA6011/CEN6036 Web Engineering
- CDA6506 Network Arch \& Client/Server Computing
- CIS6302 Distributed/Internet Systems
- CIS6101 Software Processes \& Metrics
- CIS6516 Managing Software Projects/Personnel
- COP6735 Developmts in Database Structures


## CS \& SE - Research + Electives

Thesis and Major Electives: (12.0 hrs)
Enroll in the Thesis course CIS 6970 for at least two successive terms. In order to enroll in the Thesis course, the student must obtain the approval of the Graduate Director and a Thesis Advisor. Upon satisfactory completion of the Thesis, the student defends the Thesis in an open presentation to the satisfaction of the student's Thesis Committee.

```
RESEARCH Thesis --
```

CIS 6970 Thesis ( 6.0 hrs )

ELECTIVES (6 hrs for total 12 hrs )
Select sufficient credits at the graduate level to earn a total of 36.0 hours.
CAP CDA CEN CIS CNT COP COT

- Select at least 6 credits of electives.

Note: CEN 6016 Engineering of Software I must be elected if the student's undergraduate coursework does not include a course equivalent to CIS 4251 Software Development.

## Table of Contents

## Major: Civil Engineering <br> Degree: Bachelor of Science

## Prerequisites

All Engineering Prerequisites must be completed with a " C " or higher. (29.00 credit hours)
MATH Math requirement:

- MAC2311 Calculus I
- MAC2312 Calculus II
- MAC2313 Calculus III
- MAP2302 Ordinary Diff. Equations
*Students must complete Pre-Calculus at the college level with a "C" or higher to take Calculus I. *MAC2281, 2282, and 2283 may be substituted for MAC2311, 2312, and 2213.
*MAP2305 may be substituted for MAP2302.
CHEMISTRY Chemistry requirement:
- CHM2045+L General Chemistry
*CHS1440 may be substituted for CHM2045. If CHS1440 is 4.0 cr hrs and includes lab, it may be used for CHM2045C. *CHM2045C may be substituted for CHM2045\&L.

PHYSICS I Physics I requirement:

- PHY2048+L Calculus Based Physics I *
*Students who did not successfully complete high school physics must complete PHY1020C Intro to Physics with a "C" or higher before completing Calculus Physics I.
*Calculus Based Physics has an additional prerequisite of Calculus I and a Co-requisite of Calculus II.
*PHY2048C may be substituted for lecture and lab.
*PHY2043 may be substituted for the lecture.
PHYSICS II Physics II requirement:
- PHY2049+L Calculus Based Physics II *
*PHY2049C may be substituted for lecture and lab.
*PHY2044 may be substituted for the lecture.

Civil Engineering Foundation: (8 courses -21.0 semester hours)
SELECT 1 of the following:
Additional natural sciences:

- BSC1010C General Biology
- BSC3057 Introduction to Environmental Science
- ESC2000/2000L Earth Science \& Lab

EEL3111 Circuit Analysis I (3 Credits)
EGN1001 Introduction to Engineering I (2 Credits)
EGN2009 Introduction to Engineering II (2 Credits)
EGN3311 Statics (3 Credits)
EGN3613 Economics for Engineers (2 Credits)
EML3100 Thermodynamics I (3 Credits)
STA3032 (GM) Prob/Statistics for Engrs (3 Credits)

Civil Engineering Core: ( 5 courses -15.0 semester hours)
CES3100 Analysis of Structures (3 Credits)
CES3104C Mechanics of Materials (3 Credits)
(or EGN3331 Strength of Materials)
CGN3322C Civil Engineering Geomatics (3 Credits)
CWR3201 Fluid Mechanics (3 Credits)
EGN3321 Dynamics (3 Credits)

Major Requirements
Civil Engineering Major Requirements: (10 courses -30.0 semester hours)
CEG3011C Geotechnical Engineering (4 Credits)
CEG3111 Foundation Engineering (3 Credits)
CES3605C Design of Steel Structures (3 Credits)
CES4702C Design of Reinforced Concrete (3 Credits)
CGN3501C Civil Engineering Materials (3 Credits)
(or EML3520C Material Science I)
CGN4803 Senior Capstone Design I (1 Credit)
CGN4804 Senior Capstone Design II (3 Credits)
CWR4202C Hydraulic Engineering (4 Credits)
ENV3001C Environmental Engineering (3 Credits)
TTE4004 Transportation Engineering (3 Credits)

Technical Electives
Civil Engineering Technical Electives: (3 courses - 9.0 semester hours)
Select Nine hours from the Courses listed below.
SELECT 9 Hrs. from the following:

- CES 4101 Adv Structure Systems
- CES 4102 Matrix Structural Analysis
- CES 4321 Intro to Bridge Engineering
- CES 4711 Prestressed Concrete
- CEG 4302 Applied Engineering Geology
- ENV 4012 Adv Environ Engineering
- TTE 4201 Adv Transport Engineering
- CGN 4905 Directed Independent Study (1-3 hrs)
- CGN 3930 Special Topics: Civil Engineering (1-3 hrs)
- CGN 4931 Special Topics: Civil Engineering (1-3 hrs)
- CGN 4949 Co-op Work Experience (0-1 hr.)


## Electives

No additional hours should be necessary to reach 128 hrs. If necessary, select additional courses to attain a total of 128 hours. This area may include hours at any level (1000-4000).

ANY-HOURS FREE ELECTIVES (1000-4000)

## Table of Contents

## Major: Electrical Engineering Degree: BS in Electrical Engineering

## Prerequisites

All Engineering Prerequisites must be completed with a "C" or higher. (29.00 credit hours)
MATH Math requirement:

- MAC2311 Calculus I
- MAC2312 Calculus II
- MAC2313 Calculus III
- MAP2302 Ordinary Diff. Equations
*Students must complete Pre-Calculus at the college level with a "C" or higher to take Calculus I. *MAC2281, 2282, and 2283 may be substituted for MAC2311, 2312, and 2213.
*MAP2305 may be substituted for MAP2302.

CHEMISTRY Chemistry requirement:

- CHM2045+L General Chemistry
*CHS1440 may be substituted for CHM2045. If CHS1440 is 4.0 cr hrs and includes lab, it may be used for CHM2045C. *CHM2045C may be substituted for CHM2045\&L.

PHYSICS I Physics I requirement:

- PHY2048+L Calculus Based Physics I *
*Students who did not successfully complete high school physics must complete PHY1020C Intro to Physics with a "C" or higher before completing Calculus Physics I.
*Calculus Based Physics has an additional prerequisite of Calculus I and a Co-requisite of Calculus II.
*PHY2048C may be substituted for lecture and lab.
*PHY2043 may be substituted for the lecture.
PHYSICS II Physics II requirement:
- PHY2049+L Calculus Based Physics II *
*PHY2049C may be substituted for lecture and lab.
*PHY2044 may be substituted for the lecture.


## Foundation

Electrical Engineering Foundation: (6 courses -16.0 semester hours)
COP2220 Computer Science I (3 Credits)
EGN1001 Introduction to Engineering I (2 Credits)
EGN2009 Introduction to Engineering II (2 Credits)
EGN3311 Statics (3 Credits)
SELECT one of the following:

- EGN3321 Dynamics
- EML3100 Thermodynamics I

STA3032 (GM) Prob/Statistics for Engrs (3 Credits)

## Core Requirements

Electrical Engineering Core: (16 courses -49.0 semester hours)

```
EEL3111 Circuit Analysis I (3 Credits)
EEL3112 Circuit Analysis II (3 Credits)
EEL3117L Electrical Circuits Laboratory (1 Credit)
EEL3135 Signals and Systems (3 Credits)
EEL3216 Introduction to Power Systems (3 Credits)
EEE3308 Electronic Circuits I (3 Credits)
EGN3203 Modern Computational Methods (3 Credits)
EEL3472 Electromagnetic Fields Applic (3 Credits)
EEL3701C Introduction Digital Systems (4 Credits)
EEE4309C Electronic Circuits II (4 Credits)
EEL4514 Communication Systems (3 Credits)
EEL4657C Linear Control Systems (4 Credits)
EEL4712C Digital Design (4 Credits)
EEL4744C Microcontroller Applications (4 Credits)
EEL4914 Senior Capstone Design I (1 Credit)
EEL4915 Senior Capstone Design II (3 Credits)
```

Technical Electives
Electrical Engineering Technical Electives: (10.0 semester hours)

SELECT 10 Hrs. from the following:

- EEL 3211 Intro to Electric Machines (3)
- EEE 4314L Advanced Electronics (2)
- EEE 4396 Solid State Electronic Devices (3)
- EEL 4440 Optical Fiber Communications (3)
- EEL 4514L Communications Systems Lab (1)
- EEL 4610 State-Space Control Systems (3)
- EEL 4713 Digital Computer Architecture (3)
- EEL 4713L Digital Computer Architecture Lab (1)
- EEL 4750 Intro to Digital Signal Processing (3)
- EEL 4750L Digital Signal Processing Lab (1)
- EEL 4829 Digital Electronic Imaging (3)
- EEL 4905 Individual Study (1-3, repeated for max 6)
- EEL 4949 Co-op Experience (0-1)
- EGN 3613 Economics for Engineers (2)
- COP 3503 Computer Science II (3)
- COP 3530 Data Structures (4)
- EEL 4930/1 Special Topics in EE (1-4)


## Table of Contents

## Major: Mechanical Engineering <br> Degree: Bachelor of Science

## Prerequisites

All Engineering Prerequisites must be completed with a "C" or higher. (29.00 credit hours)
MATH Math requirement:

- MAC2311 Calculus I
- MAC2312 Calculus II
- MAC2313 Calculus III
- MAP2302 Ordinary Diff. Equations
*Students must complete Pre-Calculus at the college level with a "C" or higher to take Calculus I. *MAC2281, 2282, and 2283 may be substituted for MAC2311, 2312, and 2213.
*MAP2305 may be substituted for MAP2302.
CHEMISTRY Chemistry requirement:
- CHM2045+L General Chemistry
*CHS1440 may be substituted for CHM2045. If CHS1440 is 4.0 cr hrs and includes lab, it may be used for CHM2045C.
*CHM2045C may be substituted for CHM2045\&L.
PHYSICS I Physics I requirement:
- PHY2048+L Calculus Based Physics I *
*Students who did not successfully complete high school physics must complete PHY1020C Intro to Physics with a "C" or higher before completing Calculus Physics I.
*Calculus Based Physics has an additional prerequisite of Calculus I and a Co-requisite of Calculus II.
*PHY2048C may be substituted for lecture and lab.
*PHY2043 may be substituted for the lecture.
PHYSICS II Physics II requirement:
- PHY2049+L Calculus Based Physics II *
*PHY2049C may be substituted for lecture and lab.
*PHY2044 may be substituted for the lecture.


## Foundation

Mechanical Engineering Foundation: (7 courses - 18.0 semester hours)
COP2220 Computer Science I (3 Credits)
EEL3111 Circuit Analysis I (3 Credits)
EGN1001 Introduction to Engineering I (2 Credits)
EGN2009 Introduction to Engineering II (2 Credits)
EGN3311 Statics (3 Credits)
EGN3613 Economics for Engineers (2 Credits)
STA3032 (GM) Prob/Statistics for Engrs (3 Credits)

Core Requirements
Mechanical Engineering Core: ( 6 courses -16.0 semester hours)
EGN3203 Modern Computational Methods (3 Credits)
EGN3321 Dynamics (3 Credits)
EGN3331 Strength of Materials (3 Credits)

## Major Requirements

Mechanical Engineering Major Requirements: (13 courses - 32.0 semester hours)

```
EML3015 Fluids I (3 Credits)
EML3101 Thermodynamics II (3 Credits)
EML3520C Material Science I (3 Credits)
EML3535C Modern Engineering CAD (2 Credits)
EML4004L Energy Systems Lab (1 Credit)
EML4126 Transport Phenomena (3 Credits)
EML4140 Heat Transfer (3 Credits)
EML4301L Mechanical Systems Laboratory (1 Credit)
EML4304L Fluid Mechanics Lab (1 Credit)
EML4312 Model/Analysis Dynamic Systems (3 Credits)
EML4313 Control of Machinery (3 Credits)
EML4320C Integrated Design/Manufacture (3 Credits)
EML4501 Machine Design (3 Credits)
```

Technical Electives (9 credits)
Mechanical Engineering Technical Electives: (3 courses -9.0 semester hours)
Select Nine hours from the Courses listed below.
SELECT 9 Hrs. from the following:

- EML 3553 Project Engineering I
- EML 4016 Fluids II
- EML 4414 Heat Power Engineering
- EML 4048 Simulation of Production Systems
- EML 4304 Advanced Solid Modeling
- EML 4320 Integrated Design \& Manufacturing
- EML 4500 Finite Element Modeling \& Analysis
- EML 4544 Materials \& Handling I
- EML 4554 Project Engineering II
- EML 4601 HVAC Systems
- EML 4622 Clean \& Renewable Energy Technology
- EML 4804 Mechatronics
- EML 4806 Robotics Engineering
- EML 4905 Directed Independent Study (1-3 hrs)
- EML 4930 Special Topics: Mechanical Engineering (1-3)
- EML 4949 Co-op Work Experience (0-1 hr)

Electives
No additonal hours should be necessary.
If necessary, select additional courses to attain a total of 128 hours. This area may include hours at any level (1000-4000).

ANY-HOURS FREE ELECTIVES (1000-4000)

## Major: Electrical Engineering Degree: MS in Electrical Engineering

## Major Requirements

MS Electrical Engineering Requirements: (30 credit hours)
The Electrical Engineering master's degree consists of a minimum of 30.0 credit hours.
*Students select from one of two degree options: (1) thesis or (2) non-thesis.
**All programs of study must be approved by the School of Engineering Graduate Program
Director prior to the end of the second semester of graduate study.**

UNF Conditions for the degree:
For more details on the below and additional conditions, refer to the UNF Graduate School's webpage: http://www.unf.edu/graduateschool/

- 1. A GPA of 3.0 must be maintained. If the GPA falls below 3.0, probation will result.
- 2. At least 18.0 hours of coursework at the 6000-level must be applied toward the degree.
- 3. All coursework for a graduate or post-baccalaureate professional degree must be completed within six years of a master's degree-seeking student being admitted to a graduate program. All exceptions must be approved by the student's Graduate Program Director and the Dean of the Graduate School.

School of Engineering Conditions for the degree:

- 1. All coursework must be completed with a grade of 'C' or better.
- 2. A GPA of 3.0 must be maintained. If the GPA falls below 3.0, academic probation will result.
- 3. No more than 6.0 hours of transfer coursework can be applied to the degree, with the following exception:
A student may transfer up to 12.0 hours from the Florida Engineering Education Delivery System (FEEDS) provided the total of FEEDS courses and other transfer courses does not exceed 12.0 hours.
- 4. A student may not receive 5000 -level credit for a cross-listed $4000 / 5000$-level course previously completed at the 4000-level. Exceptions to this rule may be considered with documented evidence of significant and appropriate differences in content between the courses.


## EGN6456 Advanced Engineering Analysis (3 Credits) <br> or approved substitute graduate mathematics course. See list of approved electives in the School of Engineering office.

```
EGN6457 Adv. Res. Methods for Engineer (3 Credits)
RESEARCH for Thesis option --
Thesis option: Select 6.0 hrs of EEL 6972 EE Thesis.
(Non-thesis option will select 6.0 hrs of additional electives, as indicated below.)
```


## SELECT Required Electives --

1. Electrical Engineering Electives: select a minimum of 12.0 hrs from the list below or other EE approved electives. For thesis students, electives must be approved by the Graduate Advisor. At least 6 hours of EE electives must be selected at the 6000-level.

- EEE 5316L Advanced Electronics (3)
- EEL 5060 High Tech Entrepreneurship (3)
- EEL 5500 Digital Communications (3)
- EEL 5500L Digital Communications Lab (1)
- EEL 5511 Communications Systems (3)
- EEL 5513 Introduction to Digital Signal Processing (3)
- EEL 5563 Fiber Optics (3)
- EEL 5613 State-Space Control Systems (3)
- EEL 5722C Digital Design (4)
- EEL 5764C Digital Computer Architecture (3)
- EEL 5820 Digital Image Processing (3)
- EEL 5934 Special Topics in Elect Engineering (v. 1-3)
- EEL 6935 Special Topics in Elect Engineering (v. 1-3)
- CDA5106 Intro to Computer Architecture (3)
- CDA5106L Intro to Computer Architecture Lab (1)
- COP6616 Parallel Computing (3)
- EEL 6521 Advanced Digital Communications (3)
- EEL 6521L Adv Digital Communications Lab (1)
- EEL 6558 Advanced Topics in Signal Processing (3)
- EEL 6568 Optical Systems \& Networks (3)
- EEL 6591 Wireless/Mobile Communications (3)
- EEL 6684 Embedded Control Applications (3)
- EEL 6735 Computer System Design (3)
- EEL 6749 Embedded Systems Design (3)
- EEL 6825 Pattern Recognition (3)
- EEL 6900 Supervised Graduate Research (v. 1-3) can be repeated up to 6 hours.

2. Other Electives: Select sufficient hours of non-electrical engineering electives. EE electives may be used to satisfy this requirement. Select sufficient credits at the graduate level to earn a total of 30.0 hours.

- Thesis option: Select up to 6.0 hours of non-electrical engineering electives. Electives must be approved by the Graduate Advisor.
- Non-thesis option: Select up to 12.0 hours of non-electrical engineering electives. A list of approved electives is available in the School of Engineering.

Note: Electrical engineering elective courses may also be selected from on-line courses from Florida State University System within the limitations discussed above, and must be approved by the Graduate Advisor for thesis students and by the Graduate Program Director or Graduate Advisor for non-thesis students.

## Major: Mechanical Engineering <br> Degree: MS in Mechanical Engineering

## Major Requirements

MS Mechanical Engineering Requirements: (30 credit hours)
The Mechanical Engineering master's degree consists of a minimum of 30.0 credit hours.
Students select from one of two degree options: (1) thesis or (2) non-thesis.
**All programs of study must be approved by the School of Engineering Graduate Program
Director prior to the end of the second semester of graduate study.**

UNF Conditions for the degree:
For more details on the below and additional conditions, refer to the UNF Graduate School's webpage: http://www.unf.edu/graduateschool/

- 1. A GPA of 3.0 must be maintained. If the GPA falls below 3.0, probation will result.
- 2. At least 18.0 hours of coursework at the 6000-level must be applied toward the degree.
- 3. All coursework for a graduate or post-baccalaureate professional degree must be completed within six years of a master's degree-seeking student being admitted to a graduate program. All exceptions must be approved by the student's Graduate Program Director and the Dean of the Graduate School.

School of Engineering Conditions for the degree:

- 1. All coursework must be completed with a grade of 'C' or better.
- 2. A GPA of 3.0 must be maintained. If the GPA falls below 3.0, academic probation will result.
- 3. No more than 6.0 hours of transfer coursework can be applied to the degree, with the following exception:
A student may transfer up to 12.0 hours from the Florida Engineering Education Delivery System (FEEDS) provided the total of FEEDS courses and other transfer courses does not exceed 12.0 hours.
- 4. A student may not receive 5000 -level credit for a cross-listed $4000 / 5000$-level course previously completed at the 4000-level. Exceptions to this rule may be considered with documented evidence of significant and appropriate differences in content between the courses.


## EGN6456 Advanced Engineering Analysis (3 Credits) <br> or approved substitute graduate mathematics course. See list of approved electives in the School of Engineering office.

```
EGN6457 Adv. Res. Methods for Engineer (3 Credits)
RESEARCH for Thesis option --
Thesis option: Select 6.0 hrs of EML 6972 ME Thesis.
(Non-thesis option will select 6.0 hrs of additional electives, as indicated below.)
```


## SELECT Required Electives --

1. Mechanical Engineering Electives: select a minimum of 12.0 hrs from the list below or other ME approved electives. For thesis students, electives must be approved by the Graduate Advisor.

- EML 5808 Robotics Engineering II
- EML 6809 Intelligent Planning for Robotic Systems
- EML 5315 Advanced Control System Theory
- EML 6311 Modern Control Engineering
- EML 5508 Finite Element Modeling and Analysis
- EML 5211 Introduction to Continuum Mechanics
- EGN 6333 Advanced Mechanics of Materials
- EML 5105 Classical and Statistical Thermodynamics
- EML 5131 Combustion Phenomena
- EML 6451 Energy Conversion
- EML 5403 Fuel Cells
- EML 6417 Solar Energy Devices
- EML 5606 Air Conditioning and Refrigeration
- EML 5932 Special Topics in Mech Engineering (v. 1-3)
- EML 6933 Special Topics in Mech Engineering (v. 1-3)
- EML 6900 Supervised Graduate Research (v. 1-3) can be repeated up to 6 hours.

2. Other Electives: Select sufficient hours of non-mechanical engineering electives. ME electives may be used to satisfy this requirement. Select sufficient credits at the graduate level to earn a total of 30.0 hours.

- Thesis option: Select up to 6.0 hours of non-mechanical engineering electives. Electives must be approved by the Graduate Advisor.
- Non-thesis option: Select up to 12.0 hours of non-mechanical engineering electives. A list of approved electives is available in the School of Engineering.

Note: Mechanical engineering elective courses may also be selected from on-line courses from Florida State University System within the limitations discussed above, and must be approved by the Graduate Advisor for thesis students and by the Graduate Program Director or Graduate Advisor for non-thesis students.


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of opportunity. Ethical educators view themselves and others as valued members of a learning community. They model professional integrity.

Active reflection on professional practice means that educators and other helping professionals are committed to professional renewal, self-assessment, and life-long learning. Programs and experiences encourage professionals to engage in reflective practice and self-assessment, take informed risks, and participate in the change process.

Educators who value diversity are prepared to acquire and apply the tools, content, technology, and strategies needed to assure that all students realize their full potential. They work in partnerships among post-secondary institutions, community agencies, and P-12 schools with the goal of improving learning.

## Accreditation

## The Teacher Education Unit at the University of North Florida is accredited by:

- National Council for Accreditation of Teacher Education (NCATE) 2010 Massachusetts Avenue NW, Suite 500
Washington, DC 22036
Telephone Number (202) 466-7496


## Programs in Education are accredited and approved by the following:

- Council for Accreditation of Counseling and Related Educational Programs (CACREP)
- Council on Education of the Deaf (CED)
- Florida Department of Education (FDOE)



# College of Education and Human Services 

## Contact Information

Location: Building 57
Phone: (904) 620-2520
Mailing Address:
University of North Florida
College of Education and Human Services
1 UNF Drive, Building 57
Jacksonville, 32224-7699

## Dean's Office

Location: Building 57, Room 3600
Larry Daniel, Dean
Idaniel@unf.edu
Marsha H. Lupi, Associate Dean
mlupi@unf.edu
Pat Hanford, Director of Development
p.hanford@unf.edu

Claribel Torres-Lugo, Director of Assessment \& Accreditation
ctorres@unf.edu

The College of Education and Human Services has long valued its role in the preparation of teaching professionals. The ever-broadening, increasingly diverse needs of society, however, have created a continuing demand not only for qualified teachers, but for other professionals as well. To help meet this demand, the college has expanded its programs. Students may now choose from career paths in teaching in the K-12 school settings, careers in sport leadership or English/American sign language interpreting. The college's theme, "Educating Professionals Who Impact the Lives of Adults and Children," exemplifies the mission to prepare and renew professionals who are equipped to live in pluralistic societies, capable of creating learning communities which focus on continued improvement of the teaching and learning process. Emphasis is placed on application of theory to practice with nearby schools and agencies serving as laboratories for learning.


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# College of Education and Human Services Academic Advising 

Web Address: http://www.unf.edu/coehs/advising/
John Kemppainen, Ph.D. Director
Kenneth Hill, Advisor
Sandie Miller, Advisor
Todd Parrish, Ed.D. Advisor
Ethel Hernandez, Graduate Research Assistant

## Undergraduate

The Office of Academic Advising provides individualized academic advisement to all students in the College. During the initial advising conference, the advisor will help the student (1) select the major which will lead the student to achieving career goals, (2) evaluate the student's lower-division course work to determine whether prerequisites for the major have been met, (3) plan a tentative program of study for the student to follow which will lead to graduation in the desired major, and (4) provide the student with a written copy of this tentative program. The tentative program will be finalized when the student is fully admitted to the college.

Students are encouraged to visit the Office of Academic Advising to meet with an academic advisor as early as possible so that a program of study may be prepared. This will provide students with a well-defined set of program requirements and enable them to progress in an efficient manner toward the completion of a degree. The Office of Academic Advising is located in Bldg. 57/Room 1070, (904) 620-2530.
**Academic advisement is provided to all students in the college. Students' failure to seek advisement has historically resulted in scheduling problems, incomplete certification requirements, and delayed program completion. The College cannot be responsible for problems due to students' failure to consult with advisors.

## Graduate

Graduate students are expected to meet as soon as possible with their assigned faculty advisor to determine appropriate course work for their desired major. During the initial advising conference, the faculty advisor will help the student (1) select the major which will lead the student to achieving career goals, (2) evaluate the student's baccalaureate level course work to determine whether prerequisites for the major have been met, (3) plan a tentative program of study for the student to
follow which will lead to graduation in the desired major, and (4) provide the student with a written copy of this tentative program. The tentative program will be finalized when the student is fully admitted to the college.

Students are provided with the names, telephone numbers and office location of their faculty advisor in their acceptance letter. Students with specific questions or concerns about university policies or regulations may visit the Office of Academic Advising located in Room 1070 of Bldg. \# 57, (904) 620-2530.
**Academic advisement is provided to all students in the college. Students' failure to seek advisement has historically resulted in scheduling problems, incomplete certification requirements, and delayed program completion. The College cannot be responsible for problems due to students' failure to consult with advisors.


# College of Education and Human Services Undergraduate Academic Policies 

## Undergraduate Admission into Teacher Education Programs

Students seeking admission into a state approved teacher education program within the College of Education and Human Services must have completed a minimum of 60 semester hours from UNF or other regionally accredited educational institution(s). An Associate of Arts degree (AA) from one of Florida's State Colleges or SUS schools satisfies General Education and Gordon Rule requirements. In addition a minimum grade of $C$ in all lower and upper level classes is required for the major including all General Education and prequisite course work. Students must have a minimu grade point average (GPA) of a 2.5 or higher in all course work taken at UNF as well as from all previously attended institutions. Students must demonstrate satisfactory completion of all lower level education prerequisites including EDF 1005 Introduction to Teaching Profession; EDF 2085 Introduction to Diversity Educators; and EME 2040 Introduction to Technology for Educators. Students must present passing scores on all four parts of the General Knowledge Test (GKT) in order to be considered for admission into the College of Education and Human Services Teacher Education programs.

## Probation/Suspension

An admitted undergraduate education major who fails to earn a cumulative or term average of 2.5 after completing a cumulative total of 15 or more credits will be placed on academic probation and referred to an academic advisor. Academic probation is a warning. If both the term and cumulative GPA fall below 2.5 during the next term of enrollment, the student will be eligible for suspension. If suspended, the student will be dropped from any courses for which he/she is currently registered and denied the opportunity to re-enroll. The student should contact the Office of Academic Advising located in Bldg. 57/Room 1070, (904) 620-2530.

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# College of Education and Human Services Undergraduate Degree Requirements 

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- Directed Independent Studies
- Field/Clinical Experiences
- Pre-Internship
- Internship
- General Education and College Prerequisites
- Professional Education Minor
- Teacher-Certification-Only


## Admission Requirements

Applicants must meet minimum requirements for admission to undergraduate programs as established by State of Florida rule and University of North Florida policy.

All programs presuppose that students have sufficient academic background to pursue the professional courses provided in the College of Education and Human Services. For specific requirements, refer to programs of study for each major.

## Special Requirements for Admission to Bachelor of Arts in Education Programs

The Florida Board of Education requires that applicants for undergraduate teacher education programs meet the admissions requirements stated below to be directly admitted into any undergraduate teacher education program offered by the College of Education and Human Services:

1. Students who have completed a minimum of 60 semester hours or who have earned an Associate of Arts degree from a Florida public educational institution with a cumulative GPA of 2.5 or better and who have passing scores on all four parts of the General Knowledge (GK) Test.
2. Students who have completed a bachelor's degree from a regionally accredited institution with a minimum GPA of 2.5 and who have passing scores on all four parts of the GK Test.

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3. In addition, all students must have satisfactorily completed the three lower level education core pre-requisite classes (EDF 1005 Introduction to Teaching Profession; EDF 2085 Introduction to Diversity Educators; EME 2040 Introduction to Technology for Educators) with grades of C or better.
4. Transferring students, students changing majors, or students who have not presented passing scores on all parts of the GK will not be admitted into the College of Education and Human Services and will not be permitted to take upper level education classes.

Students not meeting the minimum GPA admissions requirements for the College of Education and Human Services may apply for admission under the College's Exceptions Policy.

An official copy of the GK Test scores must be sent to the Office of Academic Advising in the College of Education and Human Services, Building 57/ Room 1070.

Additional information regarding admission and admission by exception is available from the Office of Academic Advising, (904) 620-2530.
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## Graduation Requirements

Requirements for the Bachelor of Arts in Education degree are as follows:

1. Satisfactory completion of the minimum number of credits required by the particular program of study, of which at least 48 credits must be earned at the upper-level.
2. Satisfactory completion of the last 45 upper-level credits in the degree program in residence at UNF.
3. Satisfactory completion of all field experience and internship requirements.
4. Successful completion of all critical task assignments for the given major.
5. Passing scores on all parts of the (a) General Knowledge Test, (b) Professional Education (PED) and (c) Subject Area (SAE)* components of the Florida Teacher Certification Exam (FTCE).** It is strongly recommended that students arrange to take the PED and the SAE portions of the FTCE in the semester prior to the semester in which they plan to enroll in their student teaching internship. Internship cannot be completed without successful completion of all parts of the FTCE.
6. Grades lower than " $C$ " at either the lower division or upper division level will not be applied toward the completion of the degree requirements.

Students progressing toward a Bachelor of Arts in Education degree are required to maintain a minimum overall GPA of 2.5.

* Note: Middle Grade Math/Science majors must pass the SAE for both Middle Grades Math 5-9 AND Middle Grades Science 5-9.
** Not applicable for students who are in programs that do not lead to certification in teaching. A student in a teacher education program who fails to meet the FTCE requirement will not receive a passing grade in internship and will not be eligible to graduate.
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## Teacher Certification

Students will be eligible for a State of Florida professional teaching certificate in their specializations if they successfully complete the academic, field/clinical experiences, and professional testing requirements.
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## Directed Independent Studies

The intent of an independent study is to allow a student to pursue a selected topic in greater depth under the direction of a College of Education and Human Services faculty member. Regularly offered courses typically involve classroom interaction and for this reason are not offered as independent studies. Students who qualify for an independent study or need additional information should contact the individual professor. Independent study courses are not available for students

## Field/Clinical Experiences

The College of Education and Human Services is committed to providing teacher education students with a wide variety of field-based, clinical experiences. Because of this commitment, all teacher education students will participate in at least one urban field experience in the Duval County Public Schools.

All students enrolled in College of Education and Human Services courses that require a field or clinical component and/or are taught at a school site are mandated by state law to be fingerprinted and receive background clearance before entering the school. Please note that individual school districts may require clearances even if the student has already received clearance from another district. Students should be aware that noncompliance with fingerprinting requirements will result in the inability to complete course requirements. Contact the Office of Educational Field Experiences at (904) 620-3934 for information regarding fingerprinting procedures.
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## Pre-Internship

Pre-internship field experiences are required as part of the College's core for all undergraduate teacher education students, or certification students, seeking to complete an internship experience. These pre-internship field experiences are organized into two two-semester-hour courses, Field Lab I and Field Lab II. Prerequisite and/or corequisite courses must be completed prior to or along with Field Lab I and Field Lab II in all programs of study. Students should consult with an academic advisor to assure that prerequisites are satisfied when enrolling in Field Lab I or Field Lab II. Field Lab I must precede Field Lab II, and the two field courses may not be taken in the same semester. Both pre-internship field courses must be successfully completed with a grade of " $C$ " or better prior to internship. Each course is conducted as an inquiry-oriented seminar designed around common problems faced by beginning teachers, and all course experiences and assignments are linked to the Florida Educator Accomplished Practices. The courses link theory and practice through the development of a teaching portfolio needed for internship. Each course requires the students to participate in a 50 -hour field component. Students should meet with their advisor to plan the semester in which to enroll in each pre-internship field course.

It is the responsibility of students enrolling in these courses to apply for field experience placement during the first week of classes, in addition to the completion of formal course enrollment. Students will be assigned to a school site by the Director of Educational Field Experiences. Placement assignments are final and may not be changed. All students must meet the fingerprinting and background check requirements.
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## Internship

Teacher education students seeking a Bachelor of Arts in Education degree in the College of Education and Human Services must complete an internship as a college requirement. A 2.5 GPA , as well as completion of all prerequisites, program requirements, and critical tasks, is required to enroll in internship. The student should consult the Office of Academic Advising regarding clearance for internship. Interns are assigned to public schools in UNF's service region to make program supervision possible. Placing an intern requires advanced planning by the College of Education and Human Services and the public schools. For this reason, it is the student's responsibility to see that application for internship is filed by the fourth Friday of the semester prior to the semester of enrollment for internship (excluding the summer terms).* Placement assignments are final and may not be changed.

Because of the heavy responsibilities and commitment involved in internship, a student is not permitted to enroll in any additional courses during the internship period. Any exceptions to this rule must be initiated at the time of application through the Director of Educational Field Experiences and approved by the appropriate department chair and the dean.

Successful completion of internship requires fulfillment of all field-based experiences as specified in the College of Education and Human Services "Internship Handbook," including submission of a professional portfolio constructed according to the specified guidelines and in compliance with the Florida Educator Accomplished Practices for pre-professional educators. An additional requirement of internship is the successful completion of all parts of the Florida Teacher Certification Exam.
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## General Education and College Prerequisites

The Florida Board of Education has established general education requirements applicable to all students enrolled in undergraduate programs leading to teacher certification. These requirements are more substantial than the University's general education requirements, and exact courses vary by program of study. Students should consult with an advisor to assure compliance with these requirements.**

* Internship is not offered in the summer term. Fall term applicants must apply for internship by the 4th week of the previous spring term.
** A grade of "C" or better must be obtained in all lower division and prerequisite courses required by the College of Education and Human Services, and an overall GPA of 2.5 or better must be maintained.
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## Professional Education Minor

UNF students may select the Professional Education Minor offered by the College of Education and Human Services to satisfy the University minor requirements. The Professional Education Minor may meet some of the professional education requirements for alternative teacher certification in Florida. Students are not permitted to earn any grade lower than a " C " and may not have a cumulative grade point average of less than 2.5 in their education coursework. A two-credit, 50 -hour field experience in an approved school is included in the minor requirements. Students must complete a background check and fingerprinting prior to beginning field experience course work. Students should consult with an advisor in the College of Education and Human Services to obtain information about teacher certification in Florida.
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## Teacher-Certification-Only

Students who have completed a bachelor's degree in a non-education field of study may pursue Florida teacher certification through "Teacher-Certification-Only" (TCO) studies. Please note that all TCO coursework must be taken at the graduate level (i.e., 5000 or 6000 level courses) unless graduate-level courses are not offered. TCO does not lead to the awarding of a degree or certificate. Students interested in TCO should contact the College's Office of Academic Advising.

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# College of Education and Human Services Undergraduate Majors 

- Art Education - Art Education (K-12), BAE
- Elementary Education - Elementary Education (K-6), BAE
- English Education - English (6-12), BAE
- Math Education - Math (6-12), BAE
- Middle School Education - Math/Science Option, BAE
- Physical Education - Physical Education (K-12), BAE
- PreKdg/Primary Education, BAE
- Science Education - Biology (6-12), BAE
- Science Education - Chemistry (6-12), BAE
- Science Education - Physics (6-12), BAE
- Sign Language Interpreting, BS
- Social Studies Education - Social Studies (6-12), BAE
- Special Education - Deaf Studies, BAE
- Special Education - Exceptional Student Education, BAE
- Sport Management - Community Sport, BS
- Sport Management, BS


## Additional Information on:

- Majors
- Bachelor of Science in Sport Management
- Undergraduate Core

The College of Education and Human Services has long valued its role in the preparation of school and human services professionals. The ever-broadening, increasingly diverse needs of society, however, have created a continuing demand for educators and other professionals who are equipped to make an impact on the children and adults with whom they work. To help meet this demand, the College continues to expand its programs. Students may now choose from career paths in general or special education with teaching options in school settings from pre-Kindergarten through secondary. Many of our field placements are located in challenged urban schools. The College also has degree options for individuals interested in careers in sport management and sign language interpreting.

The College envisions its faculty and students as active leaders and responsive partners in the study and enhancement of teaching and learning within diverse learning communities. In the same vein, the College's mission is to prepare and renew professionals who are equipped to live in pluralistic societies, capable of creating learning communities that focus on continued improvement of the

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teaching and learning process. Emphasis is placed on application of theory to practice with nearby schools and agencies serving as laboratories for learning.

Consistent with its commitment to the accountability of program graduates, the College requires all students pursuing degrees leading to teacher certification to complete a series of "critical performance tasks." These tasks, which are embedded within the coursework in each academic program, assure that program graduates possess the knowledge, skills and dispositions needed to be competent as an educator in the state of Florida. Records of student performance on critical tasks are maintained by the College and reviewed regularly by faculty, advisors and administrators when making important decisions about students' progression through their programs of study.

In accordance with the federal Higher Education Act (HEA), the College of Education and Human Services keeps annual records of the success of teacher education candidates on a series of state assessments known as the Florida Teacher Certification Examination (FTCE). HEA provisions require that these data, along with the institution's ranking among the other institutions with teacher education programs in the state, be made available in institutional catalogs. For the year 2010 reporting period, 100 percent of UNF students who completed the teacher education program obtained passing scores on the general knowledge portion of the FTCE. Pass rates on the professional knowledge and subject area portions of the FTCE were 100 percent and 100 percent, respectively.
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## Majors

The College of Education and Human Services offers majors in elementary education (K-6); prekindergarten through primary grades (age 3 through grade 3); K-12 physical education; middle school (grades 5-9) mathematics/science education; sport management; K-12 programs in art; secondary specializations in selected majors in collaboration with the College of Arts and Sciences; and exceptional student education, (K-12) including Deaf education and English/ American sign language interpreting.

## Bachelor of Science in Sport Management

The Bachelor of Science in Sport Management has two concentration options for students who are Interested in working In the sport industry. The Sport Management Concentration is appropriate for those candidates who seek careers in professional sport, intercollegiate athletics, or sport entrepreneurship. The Community Sport Concentration is an appropriate concentration for candidates who seek leadership and/or instructional careers in settings offering sport, fitness, and recreation programming. Students interested in this degree program should contact Program Coordinator, Dr. Jason Lee, or an academic advisor in the College of Education and Human Services.
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## Undergraduate Core

Students enrolled in the College of Education and Human Services education degree programs must complete an undergraduate core curriculum, including two semester-long field laboratory courses. The undergraduate core for teacher preparation programs is designed to provide students with knowledge and skills and professional practices essential for all educational personnel and fulfill Florida Department of Education certification requirements. The undergraduate core builds teacher knowledge and skills in the following areas: learning theories, curriculum, methods, classroom management, communication, and assessment.

Core courses for teacher preparation programs:*

| EDF 3151 | Nature of the Learner | 3 credits |
| :--- | :--- | :--- |
| EDG 3323 | The Learning Process | 3 credits |
| EDF 4444 | Assessment of Learning \& Behavior | 3 credits |


| EDG 4410 | Classroom Management \& Communication | 3 credits |
| :--- | :--- | :--- |
| EDF 3945 | Field Laboratory Experience $I^{* *}$ | 2 credits |
| EDF 3946 | Field Laboratory Experience II** | 2 credits |
| EEX 3202 | The Psychology and Sociology of the Exceptional Learner | 3 credits |

*Note: Not all teacher preparation programs require all courses in this list; however, all core course objectives are addressed in all programs either via core course work or other components of the program of study.
** Field Laboratory Experience I must be successfully completed prior to enrolling in Field Laboratory Experience II. Field Laboratory Experience II is taken concurrently with specified methods courses. Field Laboratory Experience I and II have a 50-hour clinical component. Fingerprinting and background checks are required prior to placement.


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- Early Childhood
- Community Leadership
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# College of Education and Human Services Graduate Academic Policies 

- Academic Integrity
- Course Validation
- Credit Transfers
- Directed Independent Study
- Satisfactory Academic Progress


## Academic Integrity

Students are expected to adhere to the highest standards of integrity and professionalism. This expectation includes following the University Academic Integrity Code and the professional code of conduct in the College. Under the Academic Integrity Code, when misconduct is discovered, the instructor may take one or more actions, including recommending the student's dismissal from the program.
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## Course Validation

Course work completed at UNF more than five years prior to the completion of a master's degree program may not be applied toward that program unless validated. Course work completed at other institutions more than five years prior to the completion of a graduate degree may not be applied toward any program. UNF course work which has exceeded the five-year time limit may be considered for validation by the following procedures:

1. Permission of the appropriate department chair must be requested in writing by the student.
2. The department chair will review the request and either permit or deny the validation request. If permission is granted, the chair will assign the appropriate person(s) within the program for the student to contact to initiate the validation process.
3. The program faculty member responsible for the validation process may choose to:
a.) have the student attend the class and take the exams; or
b.) assign selected readings and/or a text, then interview the student informally to determine if the student's knowledge is current and/or give the student a written assignment or exam to assess the student's competence in the area; or
c.) a combination of $a$ and $b$ above.
4. If a student successfully completes the validation process, the faculty member will write a memorandum for the student's file that indicates that the course has been validated and that

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## Credit Transfers

Acceptance of transferred credit for the master's degree is at the discretion of the faculty advisor and the department chairperson, with the approval of the dean of the College of Education and Human Services. The grade for each course must be at least a "B." Such work must have been completed within the previous five years at an institution which offers a master's degree and is accredited by a regional accrediting association and/or approved by the Florida Department of Education for graduate-level teacher preparation or preparation as a human services provider. Generally speaking, only 6 graduate credits may be transferred into a student's program of study. Under special circumstances, a student may petition to have more credits accepted. The Graduate School limits the number of credits that may be transferred to no more than $40 \%$ percent of the total degree requirements. However, students should check with their faculty advisor and the department chair about the appropriateness of courses to be transferred. Graduate students admitted into the College of Education and Human Services must take their required course work at UNF and are not authorized to take classes at another college or university unless the course needed is not being offered at UNF for the semester needed and it is necessary in order to graduate or, the course is part of a cognate developed in consultation with the program sponsor and is not offered at UNF. In this instance approval of the faculty advisor, the chair and the Dean of the College of Education are required. Students are limited to 6 total graduate transfer credits, or $20 \%$ of the total degree requirements which ever is greater. Students may not take classes at another institution during their final semester at UNF.
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## Directed Independent Study

The purpose of an independent study is to allow a student to pursue an indepth study of a topic under the direction of a College of Education and Human Services faculty member. Regularly offered courses typically involve classroom interaction and normally are not available as directed independent studies. Interested students should contact the individual professor.
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## Satsifactory Academic Progress

Graduate students in the College of Education and Human Services at the University of North Florida must maintain a 3.0 grade point average or higher to remain in good academic standing. Any student whose grade point average falls (GPA) below the 3.0 will be placed on probationary status and may be subject to appropriate remediation or, failing to raise said grade point average within one semester, dismissed from their respective program. COEHS graduate students may not count any course grade below a B- toward their degree plan. Students seeking an exception to this rule must petition the appropriate Department or Program Chair in writing for acceptance of the course grade toward graduation credit.


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## Graduate Transfer

The residency requirement at UNF is 24 semester credit hours; 18 of which must be taken at the 6000 level. No student may earn a UNF graduate degree without 24 hours of UNF graduate course credit. It is also required that students earn a majority of credits toward their degrees at UNF.

Individual programs have particular requirements concerning transferring in credits; most graduate programs at UNF allow a student to transfer in approximately 20 percent of the overall graduate credits required for a degree (rounded up to the nearest number divisible by 3) from another regionally accredited institution, as allowable under the residency requirement and as approved on a course by course basis at the discretion of the appropriate graduate program director. Additional credits may be transferred in via special petition, subject to the approval of the appropriate graduate program director and the Graduate Dean. No student may transfer in more than 40 percent of the overall credits required for a degree.

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A student who transfers in more than 20 percent of the credits required for a degree may not apply any credits earned as a transient student (hours taken at another institution while the student is matriculating at UNF) toward fulfillment of that degree's requirements without prior approval of the appropriate graduate program director and the Graduate Dean. Students wishing to enroll in courses at another institution for the purpose of transferring credits into their graduate program of study must complete a "Concurrent Enrollment" form and have prior approval from the appropriate graduate program director.

Additional credit transfer conditions:

1. The student must have completed the course work subject to the time limits applicable to his or her current graduate program.
2. The student must have earned grades of 3.0 or higher in the courses.
3. The student is not entitled to apply transfer credits toward the 18 hour minimum of 6000level courses required for all master's degrees.
4. The student is not entitled to transfer credit for correspondence courses, courses included in a completed degree program, or portfolio-based experiential learning that has taken place prior to admission to the current graduate program.

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## Transient Student Admission

## Special Admission

Under certain circumstances students currently enrolled at other universities may enroll at UNF as "transient students" on a space available basis.

## Special Admission for Transient Students

A student in good standing at an approved institution may apply to UNF for one term to complete work; the credit for which will be transferred back to the student's home institution. Applicants must submit either an official transcript or a letter from their college or university's Registrar verifying their good standing. A transient enrollment form or other documentation may be required by the program in which the student seeks to take coursework.

## Special Admission for Inter-Institutional Transient Students

A student in good standing at a school participating with UNF in various exchange programs or exchange agreements may apply to UNF for one term, or for the duration of a special program, to complete work the credit for which will be transferred back to the home institution. The student must be sponsored by his or her academic dean, who is responsible for arranging with the UNF Registrar's Office and the appropriate college dean for the student's visit. The student will register at UNF and pay UNF tuition and registration fees. The process is the same for UNF students seeking to attend other institutions for a single term or for the duration of a special program. UNF students must have the support of their academic dean, who is responsible for arranging their visits. UNF students will register at and pay the tuition and fees of the institution they are visiting.
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## Readmission of Inactive Students

Students who have been accepted previously but who never enrolled or who have not taken courses for one year (three consecutive terms, including summers) must update their admissions applications with the Graduate School. They must do so at least six weeks before the beginning of the term in which they wish to enroll. They will be responsible for meeting any new general admissions requirements or program specific requirements.
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## Graduate Program Course Level

Eighteen (18) hours of any UNF graduate degree must be successfully completed at the 6000 level.

All graduate and post-baccalaureate professional degree programs at the University of North Florida shall include only courses at the 5000 level and above. This does not include (1) pre-requisites, (2) minors, (3) teacher certification add-on programs, or (4) field-based coursework connected to teacher certification programs.
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## Degree Completion within Six Years

All coursework for a graduate or post-baccalaureate professional degree must be completed within six years of a master's degree-seeking student being admitted to a graduate program. All coursework for a doctoral degree must be completed within eight years. All exceptions must be approved by the student's Graduate Program Director and the Dean of the Graduate School.
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## Second Masters Residency

For a second master's degree, at least 24 hours of UNF graduate coursework in residency is required. Coursework counted in the fulfillment of any other UNF degree requirements cannot be counted toward this second master's residency requirement.

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## Graduate Program Independent Learning

All graduate and post-baccalaureate professional degree programs at the University of North Florida include opportunities for students to participate in independent scholarly/research engagement and/or appropriate professional preparation experiences. These opportunities may be offered through traditional thesis or dissertation experiences, through culminating-experience projects, or through assignments embedded in particular courses in a program.

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## Credit Earned as Post-Baccalaureate

A student may apply up to 10 hours of graduate course work taken at UNF as a post-baccalaureate. (Such credits will be included in the student's UNF graduate GPA.) The student must receive the approval of the Program Director, who will then inform The Graduate School.

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## Graduate GPA Policy

The Graduate GPA includes all graduate credits taken once the student has been accepted as a degree-seeking graduate student. This includes all graduate credits, even before official admission to a graduate program, when those credits are used to fulfill degree requirements.

Graduate credits taken as a post-baccalaureate student, when those hours are not counted toward fulfillment of degree requirements, are not counted in the construction of the Graduate GPA. Undergraduate credits, no matter when they are taken, are not counted. Transfer credits are not counted, with the exception of joint international degree programs. All graduate credits from these programs are used to calculate the graduate GPA.

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## Satisfactory Academic Progress

## Good Academic Standing

A graduate student who has a cumulative UNF Graduate GPA of 3.0 or higher is considered to be in good academic standing.

A graduate student must have a cumulative UNF Graduate GPA of 3.0 or higher to be eligible for
graduation and the award of a graduate degree.

Graduate students who hold assistanships and fellowships are expected to be in good academic standing.

## Academic Probation

A graduate student who fails to maintain a cumulative UNF Graduate GPA of at least 3.0 will be considered not in good academic standing and will be placed on academic probation. Probation shall be noted on the academic transcript for each term in which the cumulative UNF Graduate GPA is below 3.0.

## Academic Suspension and Dismissal

1. If, while a graduate student is on probation, the cumulative UNF Graduate GPA does not reach 3.0 in the next academic term, the student is eligible for suspension or dismissal from the program.
2. If, while a graduate student is on probation, he or she earns a D or F in a graduate course in his or her program of study, the student is eligible for suspension or dismissal from the program.

The decision concerning whether the student is actually placed on academic suspension rests with the particular program's Graduate Program Director and/or the program's Graduate Program Committee (should the program have one).

Academic suspension is noted on the academic transcript. A graduate student may not register for courses while on academic suspension. The decision to release the student from academic suspension rests with the particular program's Graduate Program Director and/or Graduate Program Committee.

Decisions made by Graduate Program Directors and/or Graduate Program Committees may be appealed by graduate students; such appeals are made through the normal academic appeals process as specified in the Graduate Catalog and Student Handbook.

## Program-Specific Policies

Many programs have program-specific policies further defining good academic standing and related matters. These program-specific policies, if inclusive of higher standards than those of the university, supersede university policy. Please refer to individual program requirements for more information.

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## Dismissing a Student from a Graduate Program

When a student is being considered for dismissal from his/her graduate program, either at the end of a term or during a term, the Graduate Program Director and the Graduate Program Committee (should there be one) will:

1. ensure dismissal of a student from the program is supported by published policy;
2. inform the student, both through email and regular mail, of the matte;
3. offer the student an opportunity to meet with the Graduate Program Director to plead his/her case, if the decision to dismiss the student is to be made by the Graduate Program Director;
4. offer the student an opportunity to address a meeting of the Graduate Program Committee, if there is to be a Graduate Program Committee meeting for the purpose of deciding whether or not to dismiss the student;
5. inform the student of available appeal procedures and describe them, if it has been determined the student is to be dismissed from the program.

If any meetings occur, with or without a committee, the Graduate Program Director must write formal minutes. If no meetings occur, the Graduate Program Director will write a memorandum describing the decision-making process. Minutes of meetings, memoranda, and all appropriate supporting documentation, will be shared with the department chair, college dean, and the graduate dean.

If the student is dismissed from his/her graduate program, the student's transcript will bear an

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## Graduate Dual International Degrees

Effective fall 2010, all dual graduate degrees offered through joint, cooperative, or collaborative academic arrangements between UNF and international institutions must meet the following requirements:

1. The minimum number of graduate credit hours required is 48 hours;
2. Students must earn a minimum of $50 \%$ of the total number of credit hours, including the international coursework, from UNF;
3. The graduate GPA includes all graduate credits taken as part of the degree including those from the international institution(s).
4. In an effort to provide accurate student transcripts, UNF will include course names and grades on the students' UNF transcritps for all degree-required, earned credit courses that are transferred into UNF as part of pre-approved international programs operating under collaborative academic arrangements. Courses listed will be printed under a header indicating that they are part of a university-approved program.

Any program approved prior to fall 2010 (GlobalMBA, Ibero-American MBA) is exempt from item 1 and 2 listed above.

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## Graduate Admissions

(1) The following are the minimum requirements for admission to graduate programs at the University of North Florida.
a. A baccalaureate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution with a grade point average of 3.00 (B) or higher in all work attempted as an upper-division student, normally the 60 semester hours taken during the last two years of baccalaureate study, or b. An earned graduate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution.
(2) Applicants who hold baccalaureate degrees from an international institution must submit a course-by-course degree evaluation from a UNF and NACES approved evaluation service or, on exception, a course-by-course evaluation performed by the University's International Center.
(3) Additionally, all applicants to master's programs must meet the following specific requirements:
a. Each master's program may determine other requirements for admission (e.g., standardized test scores, written essays, an interview), consistent with their mission and purpose. Any additional admissions requirements so imposed by masters programs must be approved by the Dean of the Graduate School and published annually in the Graduate Catalog and on the program website area of the Graduate School for the masters program; further, such requirements shall be reviewed and updated annually.
b. These requirements shall not include preferences in the admissions process for applicants on the basis of any category protected by law.
c. The submitted materials must be used in the context of a holistic credential review process.
(4) Additionally, all applicants to doctoral programs must meet the following specific requirements:
a. Each applicant to a doctoral degree program shall present standardized test scores that are acceptable for the program to which the student is applying.
Acceptable tests include the Graduate Record Examination (verbal, quantitative, and writing), the Miller's Analogies Test, or the GMAT, whichever is deemed most
appropriate by the program. Students, including international students, who already have a graduate degree obtained from a regionally accredited institution in the same or in a related area are not required to take the standardized test unless it is required by the program.
b. Each doctoral program may determine other requirements for admission (e.g., letters of recommendation, a resume or a curriculum vita, a written essay, an interview) consistent with their mission and purpose. Any additional admissions requirements so imposed by doctoral programs must be approved by the Dean of the Graduate School and published annually in the Graduate Catalog and on the website area of the Graduate School for the program; further, such requirements shall be reviewed and updated annually.
c. The submitted materials must be used in the context of a holistic credential review process annually.
d. These requirements shall not include preferences in the admissions process for applicants on the basis of any category protected by law.
(5) The University may grant a limited number of exceptions to those applicants who do not meet the basic admission requirements. All applicants requesting an exception must submit GRE, GMAT, or MAT scores, as appropriate, prior to making the request. Students granted an exception will be placed in a provisional admission status for the graduate degree program that they wish to enter. Continuation as a graduate student will depend upon successful completion of provisional admission requirements and any subsequent work.
(6) Applicants from countries where the official language is other than English must achieve the minimum required test scores on the TOEFL or University of Cambridge IELTS as set by the University of North Florida.
(7) The following are required of all applicants:
a. Application for admission;
b. Non-refundable application fee in the amount set forth by the university;
c. Transcripts from each college attended, whether or not credits were earned;
d. Standardized Test Scores - only if required by the individual graduate program.
(8) Admission to graduate study is granted on an individual basis with a review of the entire academic record of the applicant, including quality of past performance, standardized test scores (if required), appropriateness of work taken, and suitable professional experience. To ensure that all pertinent application materials are received in time, applications for admission must be received by the published deadlines of the university and of the program to which the application is being made.

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## Graduate Certificate Programs

Credit bearing, graduate certificate programs are comprised of related courses that constitute a coherent body of study within a discipline. These programs must be approved through the university and faculty governance processes. Furthermore, these programs must establish student-learning outcomes and assess the extent to which students achieve these outcomes. This is done via the Graduate Academic Learning Compact (GALC). Additional information about the assessment of learning outcomes can be found in the GALC policy. GALC must be developed for all graduate certificate programs.

The number of graduate credits within a graduate certificate program cannot be less than 9 or more than one-half of the credits necessary for a related master's degree. Certificate programs approved prior to the implementation of this policy are exempt from these credit limitations.

Student pursuing a graduate certificate will be required to meet the same academic requirements as those defined for degree-seeking students to remain in "good standing."

All graduate certificate students must meet all prerequisites for courses in which they wish to enroll.

## Application of Credits towards Degree programs

When concurrently enrolled in a graduate degree program, and with the approval of the sponsoring college, students can apply required coursework to both the graduate certificate program and, if applicable, their chosen graduate degree program. Students cannot return for a retroactive certificate award following graduation. Students who have graduated from a degree program and wish to return to pursue a graduate certificate will need to apply to the Graduate School, and the specific certificate program, and pay a new application fee.

If a student later returns to UNF to earn a graduate degree, up to 12 hours of UNF credit earned as a graduate certificate student may be applied to satisfy graduate degree requirements. Any application of such credit must be approved by the graduate program and must be appropriate to the program. It should be noted that not all programs allow credit earned as part of a graduate certificate to be applied towards a similar graduate degree.

## Completion of program requirements

Students are subject to the individual requirements of the graduate certificate program and will need to complete at least fifty percent of the required coursework in residence at the university (e.g., face-to-face, distance learning). Successful completion of the graduate certificate program will be noted on the student's official transcript separately from his or her degree program.

The graduate certificate is not viewed as a guaranteed means of entry into a graduate degree program.

## Admissions to Graduate Certificate Programs

Currently enrolled UNF students who wish to pursue a graduate certificate program are required to apply through the graduate school and be accepted to the desired program in accordance with program-specific admissions criteria. No application fee is required.

1. All students applying for graduate level certificate programs will submit an application to The Graduate School.
2. The Graduate School will refer the application to the appropriate department for an admission decision.
3. Each program will develop its own admission criteria for certificate programs.
4. Acceptance to the graduate certificate program is dependent on student eligibility and, if required, departmental approval.

## Certificate and Transcripts

Once the program coursework is satisfied the student may be eligible to receive a document acknowledging completion that is separate from a diploma conferral. Printing and conferring all completion documents from university certificate programs will be the sole responsibility of the Registrar and the Office of Enrollment Services Processing. All materials required to print and package the completion documents will also be housed within the Enrollment Services Processing Office.


# College of Education and Human Services Graduate Degree Requirements 

- Admissions
- Doctor of Education in Educational Leadership Admission Requirements
- Master of Education Admission Requirements
- Prerequisites for Master's Degree Majors
- Course Work Requirement
- Residence Requirement
- Fingerprinting Requirement


## Admissions

Applicants must meet minimum requirements for admission to graduate programs as established by the Florida Department of Education's Division of Colleges and Universities and the University of North Florida. Individual programs in the College have established admissions criteria beyond the minimum requirements. All applicants seeking admission to master's programs in the College should meet with an academic advisor prior to admission. Contact the Office of Academic Advising at (904) 620-2530 for additional information.

## Component Cores

Master's programs range from a minimum of 36 hours to 60 hours (exclusive of prerequisites). Most master's students are required to take two core courses regardless of program of study pursued. Specific master's degree programs may require additional core courses for all students in the given program. Each student will be expected to demonstrate satisfactory performance on all elements of the core and major requirements.

Although minimum requirements for the degree programs have been established, actual requirements differ in each of the program areas. Wherever possible, flexibility has been maintained. Individual programs of study are developed in terms of the student's competency level and career goals.
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## Doctor of Education in Educational Leadership Admission Requirements

Minimum criteria for admission to the program are the following:

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- a master's degree earned from a regionally accredited institution;
- three years of successful teaching, administration, or related work in training and development
- demonstrated leadership or leadership potential;
- demonstrated academic ability and potential to complete the course work and a doctoral dissertation successfully;
- successful interview with and recommendation of the Doctoral Admissions Committee.

Applicants will be asked to submit transcripts of previous college work, including evidence of completion of a master's degree; writing samples; and acceptable scores on the GRE. The University minimum score on the GRE is 1000 . International applicants must also submit a TOEFL score if they do not hold an academic degree from an English-speaking institution as well as a foreign credential evaluation from an approved agency. Note: All applications, transcripts, test scores, and supporting documents must be sent directly to The Graduate School, University of North Florida, 1 UNF Drive, Jacksonville, FL 32224.
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## Master of Education Admission Requirements

In addition to the University requirements for graduate admissions, the following items must be submitted to The Graduate School for consideration for admission to Master of Education programs:

1. For Professional Education in Secondary Education and for the Educational Leadership program with a concentration in School Leadership leading to Florida administrator certification, a professional Florida Teaching Certificate or its equivalent is required. Individuals not holding a professional certificate may be admitted into intial certification programs in Special Education/Exceptional Student Education K-12, Counselor Education/School Counseling K-12, and Deaf Education K-12, providing the required prerequisites are taken as part of the degree process. Generally, persons holding temporary certificates do not meet this requirement; however, consideration may be given to students who are already teaching and working toward professional certification through a combination of teaching and course work.
2. Teacher certification is not required for students seeking the Adult Learning concentration in Secondary Education; Disability Services, Applied Behavior Analysis, Autism, and ASL/English Interpreting in Special Education; or Advanced Teaching and Learning, Post Secondary and Adult Studies, Educational Leadership Techology in Educational Leadership and Athletic Administration.
3. Acceptable scores on either the Graduate Record Exam (GRE) or the Miller's Analogies Test (MAT) are required. The minimum scores may vary with each deparment. The University GRE minimum score is 1000. Students must present passing scores on all four parts of the General Knowledge (GK) test for initial teacher certification programs if scores of 1000 or better on the GRE or if MAT scores are not presented.
4. For all M.Ed. programs, three letters of recommendation citing academic and professional potential is required. Some programs may have additional requirements and/or use preestablished recommendation forms.

Students who fail to meet the College of Education and Human Services or special program/department requirements for admission may request a review of their qualifications by a program/department review committee and the dean of the College. Such requests must be in writing and include supporting evidence. These students may apply for consideration under the UNF/College exceptions policy. Contact the Office of Academic Advising, (904) 620-2530, for more information.

## Prerequisites for Master's Degree Majors

## Prerequisites

## Elementary Education

- A bachelor's degree from a regionally accredited college or university
- Minimum GPA of 3.0 in last 60 semester hours of baccalaureate degree.
- GRE scores of 1000 or MAT scores of 400
- A valid teaching certificate or its equivalent may be required in some programs.


## K-12 and Secondary Education

- A bachelor's degree from a regionally accredited college or university
- Minimum GPA of 3.0 in last 60 semester hours of baccalaureate degree
- GRE scores of 1000 or MAT scores of 400
- Valid Florida Teaching Certificate in an appropriate content field or its equivalent (except for adult learning master's degree)..
- All content requirements for certification
- Indication of content area in professional education and adult learning master's degree
- Teaching experience perferred


## Special Education

- A bachelor's degree from a regionally accredited college or university
- Minimum GPA of 3.0 in last 60 semester hours of baccalaureate degree.
- GRE scores of 1000 or MAT scores of 400.
- Eligibility for a Florida Teaching Certificate or appropriate experience as determined by the program faculty.
- Appropriate ASL/Sign Language Interpreting prerequisites
- Passing scores on all parts of the General Knowledge (GK) test if applicant GRE scores are less than 1000 for all initial certification programs..


## Counselor Education: School Counseling Concentration

- A bachelor's degree from a regionally accredited college or university
- Minimum GPA or 3.0 in last 60 semester hours of baccalaureate degree.
- GRE scores of 1000 or MAT scores of 400
- Passing scores on all four parts of General Knowledge (GK) test if non-teacher educator and GRE scores are less than 1000 or if MAT scores are used.


## Educational Leadership: School Leadership for Florida Administrator Certification

- A bachelor's degree from a regionally accredited college or university
- Minimum GPA of 3.0 in last 60 semester hours of baccalureate degree
- GRE scores of 1000 or MAT scores of 400
- Valid Florida Professional Teaching Certificate for school leadership concentration


## Teacher-Certification-Only

Students who have completed a bachelor's degree in a non-education field of study may pursue teacher certification by completing "Teacher-Certification-Only" (TCO) or the Educatoar Preparation Institute (EPI). All TCO coursework must be taken at the graduate level (i.e., 5000 and 6000 level courses) unless graduate-level courses are not offered. Enrollment of TCO students in undergraduate courses requires approval of an advisor and/or the appropriate department chair. TCO students must meet all criteria for admission to the College's undergraduate teacher education programs. TCO and EPI completion does not lead to the awarding of a degree. Students interested in TCO or the EPI program should contact the College's Office of Academic Advising at (904) 6202530 for more information.
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## Course Work Requirement

A minimum of 36 credits must be included in a master's degree program. No less than 60 percent of the total graduate hours must be at the 6000-level. At least fifty percent of the course work must be taken in the College of Education and Human Services. All requirements for the degree must be completed within six years after being admitted to the program.

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## Residence Requirement

Course work taken on campus, online through a UNF distance learning program or class, or through an off-campus cohort program is considered in-residence study for degree purposes, assuming the student is a fully admitted graduate student. At least 24 hours must be completed in residency.

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## Fingerprinting Requirement

Fingerprinting is required for students enrolled in the School Counseling master's degree and the initial certification ESE K-12 programs. Florida state law requires that all persons engaging in any type of work with children at schools must be fingerprinted and cleared through official school district procedures. Students are advised that noncompliance with fingerprinting requirements or failure to receive clearance will result in the inability to complete course and program requirements. Contact the Office of Educational Field Experiences (904/620-3934) for information regarding fingerprinting procedures.


## College of Education and Human Services Graduate Degrees

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- Curriculum and Instruction - Professional Education, MED
- Educational Leadership - Advanced Teaching \& Learning, MED
- Educational Leadership - Athletic Administration, MED
- Educational Leadership - Educational Tech Leadership, MED
- Educational Leadership - Higher Education Administration, MED
- Educational Leadership - School Leadership, MED
- Educational Leadership, DEDD
- Elementary Education - Literacy, MED
- Elementary Education - Professional Education, MED
- Elementary Education - Tch English as Second Language, MED
- Special Education - Amer Sign Language/Interpret, MED
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The College of Education and Human Services has long valued its role in the preparation of school and human services professionals. The ever-broadening, increasingly diverse needs of society have created a continuing demand not only for qualified educators, but also for other professionals who are equipped to make an impact on children and adults with whom they work. Graduate students may choose from specialization concentrations in educational leadership, counselor education, elementary education and special education, or seek certification for teaching options in school settings from pre-kindergarten to secondary levels. Many of our field placements are in challenged urban schools. The College also has degree options for individuals interested in athletic
administration and American sign language interpreting.

The College envisions its faculty and students as active leaders and responsive partners in the study and enhancement of teaching and learning within diverse learning communities. In the same vein, the College's mission is to prepare and renew professionals who are equipped to live in pluralistic societies, capable of creating learning communities which impact on continued improvement of the teaching and learning process. Emphasis is placed on application of theory to practice, with nearby schools and agencies serving as laboratories for learning.

Consistent with its commitment to accountability and to the success of graduate students during their time of matriculation, the College requires that students in all graduate programs be assessed at various transition points during their programs of study. At each transition point, faculty utilize specific data on student progress to make important decisions about continuation in the program. Transition point assessments are interspersed throughout a student's program and include measures such as formal evaluation of admission criteria; individual course assessments; formal faculty review of student performance at particular intervals within a program; program-required examinations, theses, or dissertations; completion of capstone courses; and formal review of student progress at the time of program completion. Information about transition points used within any particular program of study may be obtained by contacting the department office in which the program is offered.

In accordance with the federal Higher Education Act (HEA), the College of Education and Human Services keeps annual records of the success of teacher education candidates on a series of state assessments known as the Florida Teacher Certification Examination (FTCE). HEA provisions require that these data, along with the institution's ranking among the other institutions with teacher education programs in the state, be made available in institutional catalogs. For the year 2010 reporting period, 100 percent of students who completed UNF's teacher education programs obtained acceptable scores on all portions of the FTCE.

Within each major, one or more concentrations exist that enable students to design a strong professional program of study tailored to the candidate's specific goals.

## Master's Degree Program

The programs leading to the Master of Education degree have as their primary objective the preparation of educators and human services professionals. Master's programs are offered in educational leadership school leadership/administrator certification, postsecondary and adult studies, advanced teaching and learning, educational technology leadership and athletic administration; elementary education with concentrations in professional education, literacy and TESOL as well as graduate certificates in early childhood and TESOL; secondary education with a professional education concentration; special education with deaf education, disability services, applied behavior analysis, autism, ASL/English interpreting and exceptional student education concentrations; and counselor education (school counseling concentration).
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## Master of Education Degree Program

For a major in the Department of Childhood Education and the Department of Curriculum and Instruction, graduate students are required to complete a minimum of 36 credit hours. Master of Education programs are available in elementary, secondary, middle school, adult, and P-12 certification areas.

Advanced study options are available for students who wish to pursue indepth study in a particular interest area. Advanced study options do not lead to initial teacher certification. The number of credit hours needed for advanced study options depends on the certification requirements of a given area and the student's prior degrees and certifications. Some advanced study programs may exceed 36 credit hours.

Except where noted, all credit hours are to be earned at the graduate level. Students are reminded that course validation requires a demonstration of current knowledge of the course's goals and objectives. Initial certification is limited to specific approved programs and may require significantly more credit hours in order to fulfill accreditation requirements.

## Master of Education in Elementary Education

The mission of the Department of Childhood Education is to assist learners in developing personal and professional competencies needed for successful instruction in today's public schools and community settings.. This goal is achieved through programs emphasizing individually meaningful instruction, the use of innovative materials, and the application of theoretical concepts in clinical experiences.

The department offers a wide array of graduate studies for teachers and other educational professionals. In meeting those diverse needs, the department offers three categories of studies at the graduate level.

## Category I - Master's Degree Programs for Teachers with Professional Certificates

Programs for certificated teachers who desire to extend their professional skills and knowledge leading to the awarding of a master of education degree are the primary means for pursuing graduate study within the department. The central mission of these programs is to extend and enhance the instructional expertise of the professional teacher. These programs make provisions for "add-on" endorsements to the initial teaching certificate and expand the teacher's certified areas on instruction. The areas of M.Ed. in Elementary Education include the concentrations of TESOL and Literacy.

## Category II - Master's Degree Programs for Uncertified Post-baccalaureate

Students These programs are for graduate students who either do or do not hold professional teaching certificates but who wish to obtain a master of education degree. The areas of the M.Ed. in Elementary Education include the concentration of TESOL and Professional Education with various options of cognates including: prekindergarten/primary, Elementary, and Literacy.

## Category III - Non-degree Studies that Lead to Certificate

These studies are content focused programs that lead to certificates awarded by the University of North Florida. A baccalaureate degree from an accredited institution, either in education or a non-education field is required to purse the certificate. It should be noted that certificate programs are considered post-baccalaurate programs and therefore are not eligible for traditional financial aid programs.
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## Master of Education in Secondary Education

The mission of the department is to assist learners in developing personal and professional competencies needed for successful instruction in middle, secondary, and postsecondary educational settings. This goal is achieved through programs emphasizing individually meaningful instruction, the use of innovative materials, and the application of theoretical concepts in laboratory and clinical experiences. The department offers a wide array of graduate studies for teachers and other educational professionals. In meeting those diverse needs, the division offers four categories of studies at the graduate level.

## Category I - Master's Degree Programs for Teachers with Professional Certificates

Programs for certificated teachers that extend professional skills and knowledge and lead to the awarding of a Master of Education degree are the primary means for pursuing graduate study within the department. The central mission of these programs is to extend and enhance the instructional expertise of the professional teacher. These programs make provisions for "add-on" endorsements to the initial teaching certificate and expand the teacher's licensed areas of instruction.
sequences that approximate the minimal standards required for certification through the Florida Department of Education. A baccalaureate degree is required to pursue course-by-course certification. All undergraduate requirements for admission apply for an individual to qualify as an active "teacher certification only" (TCO) candidate. Course-by-course certification can be achieved for both initial certification and addon endorsements to a current valid teaching certificate. Because course-by-course certification is determined by current state requirements and not as a result of successful completion of the Department of Curriculum and Instruction's state approved teacher preparation program, actual requirements can and do change frequently. The COEHS Office of Academic Advising, (904) 620-2530, has current information regarding certification requirements. It is important for the student to understand that teacher certification is granted by the Florida Department of Education and not from the University of North Florida.

## Category IV - Non-Degree Studies for Professional Development and Enrichment

The college recognizes the on-going need for educational advancement of teachers. The department provides opportunities for non-degree avenues of study for experienced teachers for certificate renewal as well as post-master's-degree course of study. These opportunities are highly variable and can be customized in a variety of ways. Individuals may enroll in courses of interest or an entire school staff may request a specific course by an instructor who is sent to the school site for weekly instruction. Inquire for current possibilities by contacting the Office of Academic Advising in the College of Education and Human Services, (904) 620-2530.

## Master of Education in Special Education

The graduate program in special education prepares graduate students to assume positions as professional practitioners who work with exceptional individuals. The majority of these practitioners become teachers in self-contained classes or resource rooms, while others serve in positions such as consulting teacher, behavior analyst, parent-infant specialist, or sign language interpreter. Practitioners may serve individuals with special needs ranging from preschool through adulthood. Additionally they may work with the families of individuals with special needs.

The graduate special education program offers five concentrations. The first concentration in exceptional student education is for students working toward initial state certification in special education. The second concentration is for students working toward initial certification in deaf education. The third option is a concentration in disability services designed for students interested in serving individuals with disabilities in general education classes or non-educational settings. The fourth concentration is for students interested in specialization in applied behavior analysis, and the fifth concentration is in ASL/English Interpreting.

Majors in special education consist of a minimum of 36 credits of graduate study. An individually designed program of study for each student is developed by the student in collaboration with his or her faculty advisor.

Admission into the special education graduate program requires a minimum undergraduate grade point average (GPA) of a 3.0. In addition, scores on the Graduate Record Exam (GRE) or the Miller's Analogies Test (MAT) are required. If the applicant's undergraduate GPA is less than a 3.0, a minimum of a 1000 (combined verbal and quantitative) on the GRE or a 400 on the MAT is required. Students not meeting minimum criteria for admission may be considered for admission under the UNF/College exceptions policy. The program makes special provisions for admitting students with disabilities. Admission also requires the submission of three letters of recommendation.

Note: All applications, transcripts, test scores, and supporting documents must be sent directly to The Graduate School, University of North Florida, 1 UNF Drive, Jacksonville, FL 32224.

All students enrolled in College of Education and Human Services courses that require a field or clinical component and/or are taught at a school site are mandated by state law to be fingerprinted and cleared prior to being permitted on elementary and secondary school campuses. Students should be aware that noncompliance with fingerprinting requirements will result in the inability to complete course requirements. Contact the Office of Educational Field Experiences, (904) 620-

## Special Education Concentrations

Exceptional Student Education ConcentrationThe Exceptional Student Education concentration is designed for those students seeking initial certification as teachers of students with exceptionalities. The program of study is designed to offer graduate students the preparation needed for Florida state certification in exceptional student education, K-12.

Disability Services ConcentrationThe disability services concentration in special education is available for professionals who serve individuals with disabilities in special and general education and in settings other than schools. This concentration allows individuals to pursue graduate study in special education and in various cognate areas in education but does not lead to teacher certification. The program of study consists of a minimum of 36 credit hours and is individually designed.

Deaf Education ConcentrationThe Deaf Education concentration is designed for those students seeking initial certification as teachers of students who are deaf or hard of hearing. the program of study is designed to offer graduate students the preparation needed for Florida state certification in Deaf Education, K-12. Students who have completed their undergraduate degree in Deaf Studies at UNF have already met the "pre-requisite "course requirements.

Applied Behavior Analysis ConcentrationThe Applied Behavior Analysis(ABA) concentration is designed to prepare individuals to assume positions as professional clinical practitioners who work with exceptional individuals and are interested in behavioral assessment and appropriate interventions and in preparing for the BCBA or BCABA examinations.

ASL/English Interpreting ConcentrationThe ASL/English Interpreting concentration is designed for those students seeking advanced preparation as sign language interpreters. The University of North Florida's interpreting programs are committed to upholding the National Interpreter Educational Standards as formulated by the Conference of Interpreter Trainers. The new master's degree concentration is offered in a distance-friendly modality with online, three weekend-per-semester/online, and a five day summer session/online formats to accommodate students who do not live in northeast Florida. The program is developed in accord with current spoken and signed language research and target interpreters who aspire to become nationally certified.
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## Doctoral Program

The college offers a program of advanced graduate study leading to a Doctor of Education degree in Educational Leadership. The program includes course work in specific areas of study, and requires satisfactory performance on a comprehensive examination and completion of a dissertation. Students are admitted to a doctoral cohort who complete the majority of their course work together. Admissions requirements and a description of the program of study are included below. Applicants seeking admission to the doctoral program should contact the Department of Leadership, Counseling and Instructional Technology at (904) 620-2990.
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## Doctor of Education in Educational Leadership

Special provisions regarding admissions, programs of study, and graduation related to the Ed.D. in Educational Leadership are described later in this section. For more information about the Ed.D. in Educational Leadership, please contact the Doctoral Program in the Department of Leadership, Counseling, and Instructional Technology at (904) 620-2990.

The interdisciplinary Doctor of Education in Educational Leadership program supports the development of educational leaders, with a focus on providing the knowledge, vision, and commitment to the improvement of education through a variety of leadership roles. The program draws on the expertise of faculty from a number of departments and other instructional resources of


# College of Education and Human Services Graduate Certificates 

- Modified Program in Educational Leadership
- Transformation of Conflict
- Early Childhood Education
- Teachers of English to Speakers of Other Languages
- Sport Management


## Additional Information on:

- Graduate Certificate in Early Childhood Education
- Graduate Certificate in Teachers of English to Speakers of Other Languages
- Educator Preparation Institute


## Graduate Certificate in Early Childhood Education

The Graduate Certificate in Early Childhood Education (ECE) emphasizes the professional preparation of students at the graduate levels for a range of careers in early childhood education (children 0-8) within diverse community contexts. The completion of six Early Childhood Education graduate courses provides preparation for working with young children and their families and communities. This program prepares candidates for a highly specialized role and offers a dynamic combination of state-of-the-art theoretical courses and practical application of learning in field education. Note: Traditional forms of Financial Aid are not applicable to this certificate program.
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## Graduate Certificate in Teachers of English to Speakers of Other Languages

The Graduate Certificate in Teachers of English to Speakers of Other Languages (TESOL) provides students with advanced knowledge in the education of English Language Learners (ELLs) of any age. The completion of six graduate TESOL graduate courses awards a candidate a TESOL certificate from the University of North Florida, and qualifies a candidate to apply for the ESOL (English for Speakers of Other Languages) endorsement to be added to his/her exisiting Florida teacher's certificate. Coursework covers the ESOL domains of linguistics, assessment, culture,

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methods, and curriculum. Note: Traditional forms of Financial Aid are not applicable to this certificate program.

## Educator Preparation Institute

The Educator Preparation Institute is a ten month, teacher certification program that prepares individuals with non-education degrees to teach in P-12 classrooms. EPI completers are eligible to apply for a Florida Professional Teaching Certificate. The EPI curriculum addresses competencies on higher levels of complexity as the program proceeds. Six integrated courses, plus the Florida Reading Competency 2 course, address the statewide EPI curriculum and the Florida Educator Accomplished Practices (FEAPS), and provide instruction in professional knowledge, reading strategies, and exceptional student education (ESE).

The EPI is delivered using a blend of classroom instruction and practical field experience. A central element of the competency-based curriculum provides you with practical information, blended with essential theory and real-life practice, to provide the knowledge and skills that you will need to be a successful classroom teacher.

|  | Required EPI Modules |  |
| :--- | :--- | :--- |
| EPI 001 |  <br> Assessment | 3 credit hours |
| EPI 002 | The Instructional Process: Instructional Strategies | 3 credit hours |
| EPI 003 | The Instructional Process: The Teaching and Learning <br> Process | 3 credit hours |
| EPI 004 | The Teaching Profession: Professional Education | 3 credit hours |
| EPI 005 | The Instructional Process: Diversity in the Classroom | 3 credit hours |
| EPI 006 | The Instructional Process: Technology | 3 credit hours |
| EPI 007 | Florida Reading Competency 2 course | 2 credit hours |
| Total |  | 20 credit hours |

(Total Clock hours $=280.3$ credit hour course $=42$ clock hours. 1 credit hour $=14$ hours.)
Please note that no courses with the EPI prefix may be taken for credit in a degree program and course information is not included in this catalog. For more information regarding EPI modular descriptions, please contact the Educator Preparation Institute Office.

## Field Experience

EPI participants who are employed as teachers fulfill field experience requirements within the context of their classrooms. School-based support teams mentor them and principals confirm mastery of field based competencies in seamless collaboration with the EPI. This design feature provides efficient and effective linkages between EPI instructional modules and classroom experience.

Participants who are NOT employed as teachers are referred to as Resident Teacher Candidates (RTCs). RTCs are required to complete 60 classroom-based hours and 20 community-based hours to satisfy their field component. The EPI Director arranges placement for each RTC in an EPI Alliance School.

- The field experience serves as the practical support curriculum for the EPI courses.
- Community service is an outreach to the community and an opportunity for participants to be involved with a variety of cultures. Their work helps to prepare them to work with the diverse population in their classrooms. The Community Service component is part of the Diversity Module.


## Admission to the Program

The EPI is organized as a cohort model, with a new cohort of participants beginning each fall semester. Individuals may begin applying in March for the next available cohort. Applicants must either be P-12 teachers with temporary teaching certificates or hold at least a bachelor's degree in a field other than education.


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# Office of Educational Field Experiences 

## Educational Field Experiences Home Page

Cathy O'Farrell, Director
Linda Dacks, Resident Clincial Faculty
Christie Stevenson, Resident Clincial Facutly
Kathleen Witsell, Resident Clincial Faculty
Vuokko Cornett, Clincial Faculty
Dale Eichhorn, Clincial Faculty
Renee Jackson, Clinical Faculty
Laura Langton, Clincial Faculty
Melissa Omeechevarria, Cinical Faculty
Diane Poidevant, Clincial Faculty
Maria Ramdas, Clinical Faculty
Karen Smith, Clincial Faculty
All undergraduate programs and inital certification graduate teacher education programs in the College of Education and Human Services involve a field-based learning experience. The Office of Educational Field Experiences coordinates and administers the continuum of clinical experiences for undergraduate and graduate teacher education students in the College of Education and Human Services. The Office of Educational Field Experiences is housed in Bldg. 57/Room 1300, (904) 6203934.

All students enrolled in College of Education and Human Services courses that require field or clinical contact credits or courses that are taught at a school site or require the student to complete work at a school are mandated by state law to be fingerprinted and cleared prior to being permitted on elementary and secondary school campuses. Students should be aware that noncompliance with fingerprinting requirements will result in the inability to complete course requirements. Contact the Office of Educational Field Experiences for information regarding fingerprinting procedures.

Students participating in teaching internships must submit an application for internship no later than the fourth Friday of the semester preceding the semester of internship (excluding summer terms). Each semester the College reviews all internship applications to assure the student has met all requirements for interning, including:

1. Current status as a student in good academic standing;
2. Completion of all lower division general education and prerequisite courses with grades of " C " or higher;
3. Completion of all college and program required courses with grades of " C " or higher;
4. Successful completion of all specified critical tasks for the given major.
5. Completion of mandatory criminal background checks and official fingerprinting in consonance with the policies of local school districts and state mandates.

All student-teaching internships are considered full-time experiences. Students must adhere to the professional work credits expected of all teachers in the schools in which internship experiences are held.

Applications for pre-internship field classes, namely, Field Laboratory I (EDF 3945) and Field Laboratory II (EDF 3946) are completed under the supervision of UNF faculty during the first day of those classes. Pre-interns must complete a mandatory criminal background check and official fingerprinting as required by the policies of local school districts and state mandates.


# College of Education and Human Services Student Clubs and Organizations 

SCEC - Council for Exceptional Children, Student Chapter \#277

Karen Patterson and Susan Syverud, Faculty Advisors

## ASL - American Sign Language

## SNEA - Student National Education Association

Maria Castro, Advisor
SMA - Sports Management Alliance
Jennifer Kane, Faculty Advisor
FRA - Florida Reading Association, Student Chapter
Nile Stanley, Faculty Advisor

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## Major: PreKdg/Primary Education <br> Degree: Bachelor of Arts in Education

Prerequisites (9 credits)
Grade of "C" or higher required
EDF1005 Intro to Teaching Profession (3 Credits)

- Acceptable substitute: EDFX005

EDF2085 Intro to Diversity Educators (3 Credits)

- Acceptable substitute: EDFX085

EME2040 Intro to Tech for Educators (3 Credits)

- Acceptable substitute: EMEX040

Additional Diversity (6 credits)
Select six semesters hours with an international or diversity focus. This requirement may be satisified by the completion of the general education or free elective requirements during the first sixty semester hours. Foreign language courses may be used to meet this requirement.

## SELECT_ 6 HOURS FROM THE FOLLOWING:

- CPO 3123 (FC) Pol/Soc of Britain \& Ireland
- CPO 4034 Third World Politics
- ECO 3703 International Trade
- ECO 4504 Public Finance
- ECO 4723 International Monetary System
- FIN 4604 International Finance
- GEO 2420 CD-Cultural Geography
- HSC 4141 Etiology: Addiction
- HSC 4160 Human Dev Health Beh Adc
- HSC 4563 Dimens: Hlth Older Adu
- MAR 4156 International Marketing
- MUH 2018 Evolution of Jazz
- MUH 3055 (FC) Afr Am Mus Heritage
- PET 4640 Adapted Phys Educ
- PHH 3100 Ancient Philosophy
- PHH 3120 (FC) Greek Experience
- PHH 3400 Modern Philosophy
- PHH 3500 19th Century Philosophy
- PHH 3811 Philosophy/Zen Buddhism
- PHH 4601 20th Century Cont Philosophy
- PHH 3860 (FC) Japanese Mind
- REL 2300 CD-Comparative Religion
- REL 3145 Woman Relg Wst Exper
- REL 3213 Hebrew Bible/Old Testament
- REL 3310 Asian Religions
- REL 3330 Religions of India
- REL 3443 Liberation Theology
- SOP 3742 CD-Pysch of Women
- SYD 3700 CD-Race/Cult Minority or ANT/ASH/EUH/LAH/CLT/ENL/LIT/INR/CLP/EED/EEX/EHD/ ELD/EMR/SPA/ARH/FOL/FRE/FRT/FRW/JPN/LAS/SPN/SPT/SPW except ARH 3423, ARH 3470, ARH 3930, ARH 4710, ARH 4724, ARH 4800 and INR 4334.

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EDF3151 Educational Psychology (3 Credits)
EDF3945 Field Laboratory I (2-4 Credits)
EDF3946 Field Laboratory II (2-4 Credits)
EDF4444 Assessment of Learn/Behavior (3 Credits)
EDG4410 Classroom Managment Commun (3 Credits)
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Internships (12 credits)
All degree course work must be completed satisfactorily before enrolling into internship. Fall internship applications are due the 4th Friday of the previous spring term. Spring internship applications are due the 4th Friday of the previous fall term.

EDE4943 Practicum II: Student Intern (12 Credits)

Major Requirements (41 credits)
EEC3408 Family School Partnerships (3 Credits)
EEC3731 Hea Nutr/Sfty for the Youg Chd (2 Credits)
EEC4207 Meas/Ev/Plan Early Child Lit (3 Credits)
EEC4209 Music Art Movement (6 Credits)
EEC4210 Math Sci Soc Studies For Prima (6 Credits)
EEC4213 Teaching Begin Read and Write (6 Credits)
EEC4260 Dev Pre-Kinder Prm Tch (3 Credits)
EEX4201 Pre-K/Prim Child Exceptional (3 Credits)
LAE3210 Foundations of Literacy (3 Credits)
TSL3080 Principles and Issues in TESOL (3 Credits)
TSL4340 TESOL Methods and Curriculum (3 Credits)

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## Major: Elementary Education <br> Concentration: Elementary Education (K-6) <br> Degree: Bachelor of Arts in Education

Prerequisites (9 credits)
Grade of "C" or higher required
EDF1005 Intro to Teaching Profession (3 Credits)

- Acceptable substitute: EDFX005

EDF2085 Intro to Diversity Educators (3 Credits)

- Acceptable substitute: EDFX085

EME2040 Intro to Tech for Educators (3 Credits)

- Acceptable substitute: EMEX040

Additional Diversity (6 credits)
Select six semesters hours with an international or diversity focus. This requirement may be satisified by the completion of the general education or free elective requirements during the first sixty semester hours. Foreign language courses may be used to meet this requirement.

SELECT_ 6 HOURS FROM THE FOLLOWING:

- CPO 3123 (FC) Pol/Soc of Britain \& Ireland
- CPO 4034 Third World Politics
- ECO 3703 International Trade
- ECO 4504 Public Finance
- ECO 4723 International Monetary System
- FIN 4604 International Finance
- GEO 2420 CD-Cultural Geography
- HSC 4141 Etiology: Addiction
- HSC 4160 Human Dev Health Beh Adc
- HSC 4563 Dimens: Hlth Older Adu
- MAR 4156 International Marketing
- MUH 2018 Evolution of Jazz
- MUH 3055 (FC) Afr Am Mus Heritage
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- PHH 3120 (FC) Greek Experience
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Applications for fall internships are due the 4th Friday of the previous spring term. Applications for spring internship are due the 4th Friday of the previous fall term.

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EDF3151 Educational Psychology (3 Credits)
EDF3945 Field Laboratory I (2-4 Credits)
EDF3946 Field Laboratory II (2-4 Credits)
EDF4444 Assessment of Learn/Behavior (3 Credits)
EDG4410 Classroom Managment Commun (3 Credits)
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Major Requirements (41 credits)
EDG3324 Methods of Conceptual Teaching (3 Credits)
EDG4373 Visual Art/Music Meth Ele Tch (3 Credits)
EEX3202 Psych/Soc Exceptional Learners (3 Credits)
HSC3301 Health/Movmt Edu in Elem Sch (3 Credits)
LAE3210 Foundations of Literacy (3 Credits)
LAE3211 Methods/Resources Lit Develop (6 Credits)
LAE4312 Meas,Eval and Plan Lit Develop (3 Credits)
MAE3312 Math Methods for Elem Teachers (4 Credits)
SCE3310 Science Methods: Elem Teachers (3 Credits)
SSE3313 Social Study Methods:Elem Tchr (4 Credits)
TSL3080 Principles and Issues in TESOL (3 Credits)
TSL4340 TESOL Methods and Curriculum (3 Credits)

Internships (12 credits)
All degree course work must be completed satisfactorily before enrolling into Intership.
Applications for fall internship are due the 4th Friday of the previous spring term. Applications for spring internship are due the 4th Friday of the previous fall term.

EDE4943 Practicum II: Student Intern (12 Credits)

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## Minor: Early Childhood Education

Minor: Early Childhood Education (18 credits)

- Conditions to the minor: No more than 6 credit hours are allowed to be transferred in from another institution. These transfer courses must be preapproved. A cumulative GPA of 2.5 is required for the minor. Some minor courses require an override from the College of Education and Human Services prior to registration.

CHOOSE One of the following:

- EEC 4209 Music Art and Movement
- OR
- EEC 4210 Math, Science \& Social Studies

REQUIRED These are required courses:

- EDG 4905 Individual Investigation and Study
- EEC 3408 Family School Partnerships
- EEC 4260 Deve. App. Pract. Pre-Kinderg Prm Teacher
- LAE 3210 Foundations of Literacy


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Major: Elementary Education<br>Concentration: Literacy<br>Degree: Master of Education

Prerequisites (0 credits)

- Be eligible for or hold a teaching certificate in Elementary or Secondary Education.
- Have successfully completed one of the following: a)2011 Revised Florida Reading Competencies 1-4, b)Florida Reading Compentencies 1-5 (prior 2011 version), c) Have 12 credit hours in reading/literacy with evidence of covering indicators of the 2011 Revised Florida Reading Competencies 1-4.
- Have taken a general assessment course at either the undergraduate or graduate level such as EDF 4444 Assessment of Learn/Behavior or EDF 6442 Assessment in the Curriculum.

Core Requirements (6 credits)
EDF6480 Foundations of Ed Research (3 Credits)
EDF6607 Education in America (3 Credits)

Major Requirements (18 credits)
LAE6415 Teaching Literacy with Books (3 Credits)
RED5846 Practicum in Reading (1-3 Credits)
RED6546 Literacy Difficulties (3 Credits)
RED6XXX Literacy Coaching
SELECT Either: LAE 6319 or LAE 6339
SELECT_One of the following:

- EDE 6225 Elementary School Curriculum
- ESE 6215 Secondary School Curriculum
- EEC 6205 Early Childhood Ed

Major Electives (9 credits)
ELECTIVES Choose 3 from the following:

- EDE 6205 Teaching All Children
- EDF 6442 Assessment in the Curriculum
- EEC 6611 Early Childhood Education
- EME 6046 Technology and Literacy
- RED 6345 Motivating Reluctant Readers
- RED 6698 Teaching Critical Literacy
- RED 6697 Teaching New Literacies
- RED 6303 Building Literacy Through Play
- RED 6000 Language \& Cognitive Found. for Reading
- RED 6349 Literacy through Storytelling
- RED 6796 Literacy Research, Issues and Trends

Culminating Experience (3 credits)
RED6395 Adv Read Assess/Prog Implement (3 Credits)

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## Major: Elementary Education <br> Concentration: Tch Eng/Speakers of Other Lang <br> Degree: Master of Education

Core Requirements (6 credits)
EDF6480 Foundations of Ed Research (3 Credits)
EDF6607 Education in America (3 Credits)

Major Requirements ( 24 credits)
SELECT One of the following courses:

- ESE 6215 Secondary School Curriculum
- EDE 6225 Elementary School Curriculum
- EDG 6626 Curriculum \& Instr. for Adult Learning

EDG6325 GenEd Comp:Models of Teach (3 Credits)
TSL6345 ESOL Methods (3 Credits)
TSL6525 Cross Culture Comm/Knowledge (3 Credits)
TSL6440 Assessment in ESOL Settings (3 Credits)
TSL6142 ESOL: Curriculum Development (3 Credits)
TSL6350 Grammar for Teachers of ESOL (3 Credits)
TSL6252 Principles of Ling/ESOL (3 Credits)

Culminating Experience (6 credits)
CHOOSE ONE OF THE FOLLOWING OPTIONS:

OPTION ONE:

- TSL 6940 TESOL Practicum OPTION TWO:
- EDF 6971 Research Master's Thesis


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## Major: Special Education <br> Concentration: Exceptional Student Education <br> Degree: Bachelor of Arts in Education

Prerequisites (9 credits)
Grade of "C" or higher required
EDF1005 Intro to Teaching Profession (3 Credits)

- Acceptable substitute: EDFX005

EDF2085 Intro to Diversity Educators (3 Credits)

- Acceptable substitute: EDFX085

EME2040 Intro to Tech for Educators (3 Credits)

- Acceptable substitute: EMEX040

Additional Diversity (6 credits)
Select six semesters hours with an international or diversity focus. This requirement may be satisified by the completion of the general education or free elective requirements during the first sixty semester hours. Foreign language courses may be used to meet this requirement.

SELECT_ 6 HOURS FROM THE FOLLOWING:

- CPO 3123 (FC) Pol/Soc of Britain \& Ireland
- CPO 4034 Third World Politics
- ECO 3703 International Trade
- ECO 4504 Public Finance
- ECO 4723 International Monetary System
- FIN 4604 International Finance
- GEO 2420 CD-Cultural Geography
- HSC 4141 Etiology: Addiction
- HSC 4160 Human Dev Health Beh Adc
- HSC 4563 Dimens: Hith Older Adu
- MAR 4156 International Marketing
- MUH 2018 Evolution of Jazz
- MUH 3055 (FC) Afr Am Mus Heritage
- PET 4640 Adapted Phys Educ
- PHH 3100 Ancient Philosophy
- PHH 3120 (FC) Greek Experience
- PHH 3400 Modern Philosophy
- PHH 3500 19th Century Philosophy
- PHH 3811 Philosophy/Zen Buddhism
- PHH 4601 20th Century Cont Philosophy
- PHH 3860 (FC) Japanese Mind
- REL 2300 CD-Comparative Religion
- REL 3145 Woman Relg Wst Exper
- REL 3213 Hebrew Bible/Old Testament
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- REL 3443 Liberation Theology
- SOP 3742 CD-Pysch of Women
- SYD 3700 CD-Race/Cult Minority or ANT/ASH/EUH/LAH/CLT/ENL/LIT/INR/CLP/EED/EEX/EHD/ ELD/EMR/SPA/ARH/FOL/FRE/FRT/FRW/JPN/LAS/SPN/SPT/SPW except ARH 3423, ARH 3470, ARH 3930, ARH 4710, ARH 4724, ARH 4800 and INR 4334.

EDF3151 Educational Psychology (3 Credits)

- offered: Fall, Spring, Summer

EDF3945 Field Laboratory I (2-4 Credits)

- offered: Fall, Spring

EDF3946 Field Laboratory II (2-4 Credits)

- offered: Fall, Spring

EDF4444 Assessment of Learn/Behavior (3 Credits)

- offered: Fall, Spring, Summer

EEX4616 Clsrm Mgmt Exceptional Learner (3 Credits)

- offered: Summer Only

Major Requirements (41 credits)
EEX3202 Psych/Soc Exceptional Learners (3 Credits)

- offered: Spring, Fall, Summer

EEX3250 Read Mthds:Learners Exception (3 Credits)

- offered: Fall Only

EEX3252 Lang Arts:Exceptional Learners (3 Credits)

- offered: Spring Only

EEX4101 Language Development/Disorders (2-3 Credits)

- offered: Fall, Summer Only

EEX4221 Ed Assessment/Learners Except (3 Credits)

- offered: Fall Only

EEX4255 Curr/Instr: Learners Except (3 Credits)

- offered: Spring Only

EEX4281 Soc,Pers,Car:Learners Except (3 Credits)

- offered: Summer Only

EEX4474 Teach Mod/Sev (3 Credits)

- offered: Fall Only

EEX4484 Math Sci Except Lrnrs (3 Credits)

- offered: Spring Only

EEX4604 Behavior Mang and Rsrch (3 Credits)

- offered: Spring Only

EEX4753 Cooperative Consultation (3 Credits)

- offered: Fall Only

RED3310 Teaching Reading as a Process (3 Credits)

- offered: Fall, Spring, Summer

TSL3080 Principles and Issues in TESOL (3 Credits)

- offered: Fall, Spring, Summer

TSL4340 TESOL Methods and Curriculum (3 Credits)

- offered: Fall, Spring

Internships (12 credits)
All degree course work must be completed satisfactorily before enrolling into Internship. Fall internship applications are due the 4th Friday of the previous spring term. Spring internship applications are due the 4th Friday of the previous fall term.

EEX4861 Internship (3-12 Credits)

- offered: Fall, Spring


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## Major: Special Education <br> Concentration: Deaf Studies <br> Degree: Bachelor of Arts in Education

Prerequisites (9 credits)
Grade of "C" or higher required
EDF1005 Intro to Teaching Profession (3 Credits)

- Acceptable substitute: EDFX005

EDF2085 Intro to Diversity Educators (3 Credits)

- Acceptable substitute: EDFX085

EME2040 Intro to Tech for Educators (3 Credits)

- Acceptable substitute: EMEX040

Additional Diversity (6 credits)
Select six semesters hours with an international or diversity focus. This requirement may be satisified by the completion of the general education or free elective requirements during the first sixty semester hours. Foreign language courses may be used to meet this requirement.

SELECT_ 6 HOURS FROM THE FOLLOWING:

- CPO 3123 (FC) Pol/Soc of Britain \& Ireland
- CPO 4034 Third World Politics
- ECO 3703 International Trade
- ECO 4504 Public Finance
- ECO 4723 International Monetary System
- FIN 4604 International Finance
- GEO 2420 CD-Cultural Geography
- HSC 4141 Etiology: Addiction
- HSC 4160 Human Dev Health Beh Adc
- HSC 4563 Dimens: Hlth Older Adu
- MAR 4156 International Marketing
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- PHH 4601 20th Century Cont Philosophy
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- REL 3145 Woman Relg Wst Exper
- REL 3213 Hebrew Bible/Old Testament
- REL 3310 Asian Religions
- REL 3330 Religions of India
- REL 3443 Liberation Theology
- SOP 3742 CD-Pysch of Women
- SYD 3700 CD-Race/Cult Minority or ANT/ASH/EUH/LAH/CLT/ENL/LIT/INR/CLP/EED/EEX/EHD/ ELD/EMR/SPA/ARH/FOL/FRE/FRT/FRW/JPN/LAS/SPN/SPT/SPW except ARH 3423, ARH 3470, ARH 3930, ARH 4710, ARH 4724, ARH 4800 and INR 4334.

EDF3151 Educational Psychology (3 Credits)

- offered: Fall, Spring, Summer

EDF3945 Field Laboratory I (2-4 Credits)

- offered: Fall, Spring

EDF4444 Assessment of Learn/Behavior (3 Credits)

- offered: Fall, Spring, Summer

EEX4616 Clsrm Mgmt Exceptional Learner (3 Credits)

- offered: Summer Only

EHD4940 Deaf Education Field Practicum (2 Credits)

- offered: Spring Only

Major Requirements (52 credits)
EEX3202 Psych/Soc Exceptional Learners (3 Credits)

- offered: Fall, Spring, Summer

EEX3250 Read Mthds:Learners Exception (3 Credits)

- offered: Fall Only

EEX4484 Math Sci Except Lrnrs (3 Credits)

- offered: Spring Only

EEX3252 Lang Arts:Exceptional Learners (3 Credits)

- offered: Spring Only

EEX4101 Language Development/Disorders (2-3 Credits)

- offered: Fall, Summer

EEX4221 Ed Assessment/Learners Except (3 Credits)

- offered: Fall Only

EEX4255 Curr/Instr: Learners Except (3 Credits)

- offered: Spring Only

EEX4281 Soc,Pers,Car:Learners Except (3 Credits)

- offered: Summer Only

EEX4604 Behavior Mang and Rsrch (3 Credits)

- offered: Spring Only

EHD4245 Lang Develop Deaf/Hard of Hear (3 Credits)

- offered: Spring Only

EHD4261 Audiology Speech Science (3 Credits)

- offered: Spring Only

EHD4311 Psychology \& Education Deaf (3 Credits)

- offered: Fall Only

TSL3080 Principles and Issues in TESOL (3 Credits)

- offered: Fall, Spring, Summer

SIGN_I ASL 2140-Sign Language I

- offered: Fall, Spring, Summer

SIGN_II ASL 2150-Sign Language II

- offered: Fall, Spring, Summer

SIGN_III ASL 4131-Sign Language III

- offered: Fall, Spring

SIGN_IV ASL 4211-Sign Language IV

- offered: Spring Only


## Table of Contents

Major: ASL/English Interpreting
Degree: Bachelor of Science

Major Requirements (48 credits)
INT3134 Ethical Dec Making (3 Credits)
INT3205 Interp/Translit Process (3 Credits)
INT3226 Advanced ASL Discourse
INT3270 Interp Proc/Skill I (3 Credits)
INT3271 Interp Proc/Skill II (3 Credits)
INT3280 Interpreting Skills Lab (3 Credits)
INT3300 Assmnt Prep Performance (3 Credits)
INT3950 (CD)Serv Lrng Deaf Children (3 Credits)
INT3951 (CD)Serv Lrng Deaf Community (3 Credits)
INT4272 Adv Interp Proc/Skill I (3 Credits)
INT4273 Adv Interp Proc/Skill II (3 Credits)
INT4455 Interpreting Diverse Pop (3 Credits)
INT4910 Research in Interpreting (3 Credits)
INT4945 Interpreting Practicum I (3 Credits)
INT4947 Interpreting Practicum II (6 Credits)

## Table of Contents

## Minor: Amer Sign Lang/Deaf Studies

Minor: Amer Sign Lang/Deaf Studies (23 credits)

## Conditions to the Minor: A minimum of nine (9) hours under "Required Courses" must be taken at

 UNF.PREREQS MUST TAKE THE FOLLOWING:

- ASL 2140 American Sign Language I
- ASL 2150 American Sign Language II

REQUIRED COURSES:

- ASL 3435 Fingerspelling and Numbering in ASL (Fall Only)
- ASL 3514 Deaf Culture (Spring Only)
- ASL 4131 American Sign Language III (Fall/Spring Only)
- ASL 4211 American Sign Language IV (Fall/Spring Only)
- ASL 3301 ASL Structure (Summer Only)


## Table of Contents

## Major: Special Education <br> Concentration: Exceptional Student Education <br> Degree: Master of Education

## Prerequisites (17 credits)

EDF6211 Advanced Ed'L Psychology (3 Credits)
EEX3250 Read Mthds:Learners Exception (3 Credits)
EEX4101 Language Development/Disorders (2-3 Credits)
RED3310 Teaching Reading as a Process (3 Credits)
TSL3080 Principles and Issues in TESOL (3 Credits)
TSL4340 TESOL Methods and Curriculum (3 Credits)

## Core Requirements (22 credits)

CLINICAL Field I \& II and Internship
Two years teaching experience is required or students MUST complete clinical requirements, which include the following:
EDF 3945 Field Lab I, EDF 3946 Field Lab II, and EEX 6841 Practicum: Special Education.

- Field Lab I and II and Internship, by state law, require all students be cleared for fingerprinting and background checks prior to placement.
- Field Lab I and II require 5 hours/week for 10 weeks in school system.
- Internship is the very last semester. ALL coursework must be completed before internship.
- ALL parts of the Florida Teaching Certificate Exam (FTCE) are required for graduation. This includes all parts of the General Knowledge (GK), the Professional Education (PED), and the Subject Area Exam (SAE) for Exceptional Student Education K-12.

EDF6480 Foundations of Ed Research (3 Credits)
EDF6607 Education in America (3 Credits)
EEX5053 Foundations of Special Ed (3 Credits)

Major Requirements (24 credits)
EEX5485 Math Sci Except Lrnrs (3 Credits)
EEX5665 Classroom Management (3 Credits)
EEX6052 Curri and Instruction (3 Credits)
EEX6225 Competencies:Lab in Evaluation (3 Credits)
EEX6234 Teaching Mod/Severe Disability (3 Credits)
EEX6256 Language for Learning Impaired (3 Credits)
EEX6283 Soc,Pers,Car: Except Student (3 Credits)
EEX6402 Comm, Coll, Consult Spec Ed (3 Credits)

## Table of Contents

Major: Special Education
Concentration: Disability Services
Degree: Master of Education

Core Requirements (6 credits)
EDF6480 Foundations of Ed Research (3 Credits)
EDF6607 Education in America (3 Credits)

Major Requirements (12 credits)
EEX5053 Foundations of Special Ed (3 Credits)
EEX6025 Issues/Trends Special Ed (3 Credits)
EEX6301 Research in Special Education (1-3 Credits)
EEX6402 Comm, Coll, Consult Spec Ed (3 Credits)

Major Electives (18 credits)
ELECTIVES Select 6 Graduate Courses
A minimum of 18 credit hours (5000-6000 Level) to be selected by the student in consultation with the Program Sponsor. Some possible choices of prefixes include:

- EED/EEX/EGI/EHD/ELD/EMR/SPA/EDG/EDF/EME/TSL/SDS/MHS/EDA


## Table of Contents

## Major: Special Education <br> Concentration: Deaf Education <br> Degree: Master of Education

Informational Text
NOTE: THIS DEGREE PROGRAM IS NOT ESOL ENDORSED!!

Prerequisites (48 credits)
ASL4211 American Sign Language IV (3 Credits)
EDF3151 Educational Psychology (3 Credits)
EDF3945 Field Laboratory I (2-4 Credits)
EDF4444 Assessment of Learn/Behavior (3 Credits)
EEX3202 Psych/Soc Exceptional Learners (3 Credits)
EEX3250 Read Mthds:Learners Exception (3 Credits)
EEX3251 Math Meth for Lrnrs with Excpt (3 Credits)
EEX3252 Lang Arts:Exceptional Learners (3 Credits)
EEX4101 Language Development/Disorders (2-3 Credits)
EEX4255 Curr/Instr: Learners Except (3 Credits)
EEX4281 Soc,Pers,Car:Learners Except (3 Credits)
EEX4604 Behavior Mang and Rsrch (3 Credits)
EHD4245 Lang Develop Deaf/Hard of Hear (3 Credits)
EHD4261 Audiology Speech Science (3 Credits)
EHD4311 Psychology \& Education Deaf (3 Credits)
EHD4940 Deaf Education Field Practicum (2 Credits)
TSL3080 Principles and Issues in TESOL (3 Credits)

Core Requirements (18 credits)
EDF6480 Foundations of Ed Research (3 Credits)
EDF6607 Education in America (3 Credits)
EEX6025 Issues/Trends Special Ed (3 Credits)
EEX6841 Practicum in Special Education (3-9 Credits)

Major Requirements (19 credits)
ASL6215 Adv ASL Conversation Skills (3 Credits)
ASL6415 Sign Communication Classroom (3 Credits)
EHD5341 Curriculum/Instruct for Deaf (3 Credits)
EHD6241 Lang Instr: Deaf/Hard of Hear (3 Credits)
EHD6242 Tch Spch to Hrng Impaire Child (3 Credits)
EHD6281 Teaching Speech Practicum (1 Credit)
EHD6343 Read Instr: Deaf/Hard of Heari (3 Credits)

## Table of Contents

## Major: Special Education

Concentration: Applied Behavior Analysis
Degree: Master of Education

Core Requirements (6 credits)
EDF6480 Foundations of Ed Research (3 Credits)
EDF6607 Education in America (3 Credits)

Major Requirements ( 24 credits)

> EEX5053 Foundations of Special Ed (3 Credits)
> EEX5612 Prin of Applied Beh Analy I (3 Credits)
> EEX5617 Prin of Applied Beh Analy II (3 Credits)
> EEX5619 ABA in Dev Disab and Autism (3 Credits)
> EEX6025 Issues/Trends Special Ed (3 Credits)
> EEX6301 Research in Special Education (1-3 Credits)
> EEX6402 Comm, Coll, Consult Spec Ed (3 Credits)
> EEX6625 App Beh Anal Ed and Perf Mgmt (3 Credits)

Major Electives (6 credits)
SELECT 2 from the following list:
Select courses with the following prefixes at the 5000-6000 level.
EED/EEX/EGI/EHD/ELD/EMR/SPA/EDG/EDF/EME/TSL/SDS/MHS/EDA/EDS

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Major: Special Education
Concentration: Autism
Degree: Master of Education

Core Requirements (6 credits)
EDF6480 Foundations of Ed Research (3 Credits)
EDF6607 Education in America (3 Credits)

Major Requirements (12 credits)
EEX5053 Foundations of Special Ed (3 Credits)

- Offered FALL

EEX6025 Issues/Trends Special Ed (3 Credits)

- Offered FALL

EEX6301 Research in Special Education (1-3 Credits)

- Offered SPRING

EEX6402 Comm, Coll, Consult Spec Ed (3 Credits)

- Offered SPRING

Major Electives (18 credits)
EEX5095 Autism Nature and Needs (3 Credits)
EEX5297 Dev/Assessment with Autism (3 Credits)
EEX5767 Assistive Tech and Autism (3 Credits)
EEX6625 App Beh Anal Ed and Perf Mgmt (3 Credits)
EEX6841 Practicum in Special Education (3-9 Credits)

## Table of Contents

## Major: Special Education <br> Concentration: Amer Sign Language/Interpret <br> Degree: Master of Education

Core Requirements (6 credits)
EDF6480 Foundations of Ed Research (3 Credits)
EDF6607 Education in America (3 Credits)

Major Requirements (36 credits)
ASL6215 Adv ASL Conversation Skills (3 Credits)
EHD5315 Psych Educ of Deaf Hard Hear (3 Credits)
INT5275 Interp Process/Skill II (3 Credits)
INT5457 Interpret for Diverse Pop (3 Credits)
INT5954 Service Learning Interp (2 Credits)
INT6276 Adv Interp Process/Skill I (3 Credits)
INT6277 Adv Interp Process/Skill II (3 Credits)
INT6911 Applied Reasearch Interpret (3 Credits)
INT6932 Special Topics in Interp. (3 Credits)
INT6944 Interpreting Internship (6 Credits)
TSL6525 Cross Culture Comm/Knowledge (3 Credits)

## Table of Contents

## Major: Middle School Education <br> Concentration: Math/Science Option <br> Degree: Bachelor of Arts in Education

## Prerequisites (30 credits)

EDF1005 Intro to Teaching Profession (3 Credits)

- Acceptable substitute: EDFX005

EDF2085 Intro to Diversity Educators (3 Credits)

- Acceptable substitute: EDFX085, EDG 2701

EME2040 Intro to Tech for Educators (3 Credits)

- Acceptable substitute: EMEX040

MAC1105 (GM) College Algebra (3 Credits)

- Acceptable substitutes: MACX105, MACX147, or MACX114 and MAC X140

MAC2311 (GM) Calculus I (4 Credits)

- Acceptable substitutes: MACX311

STA2014 (GM)Elem Statistics-Health/SS (3 Credits)

- Acceptable substitutes: STAX023, STAX122, STAX014

ESC2000 Earth Science (3 Credits)
ESC2000L Earth Science Lab (1 Credit)
BSC1010C General Biology I (4 Credits)
CHM2045C General Chemistry I (4 Credits)

Additional Diversity (6 credits)
Select six semesters hours with an international or diversity focus. This requirement may be satisified by the completion of the general education or free elective requirements during the first sixty semester hours. Foreign language courses may be used to meet this requirement.

SELECT_ 6 HOURS FROM THE FOLLOWING:

- CPO 3123 (FC) Pol/Soc of Britain \& Ireland
- CPO 4034 Third World Politics
- ECO 3703 International Trade
- ECO 4504 Public Finance
- ECO 4723 International Monetary System
- FIN 4604 International Finance
- GEO 2420 CD-Cultural Geography
- HSC 4141 Etiology: Addiction
- HSC 4160 Human Dev Health Beh Adc
- HSC 4563 Dimens: Hlth Older Adu
- MAR 4156 International Marketing
- MUH 2018 Evolution of Jazz
- MUH 3055 (FC) Afr Am Mus Heritage
- PET 4640 Adapted Phys Educ
- PHH 3100 Ancient Philosophy
- PHH 3120 (FC) Greek Experience
- PHH 3400 Modern Philosophy
- PHH 3500 19th Century Philosophy
- PHH 3811 Philosophy/Zen Buddhism
- PHH 4601 20th Century Cont Philosophy
- PHH 3860 (FC) Japanese Mind
- REL 2300 CD-Comparative Religion
- REL 3145 Woman Relg Wst Exper
- REL 3213 Hebrew Bible/Old Testament
- REL 3310 Asian Religions
- REL 3330 Religions of India
- REL 3443 Liberation Theology
- SOP 3742 CD-Pysch of Women
- SYD 3700 CD-Race/Cult Minority or ANT/ASH/EUH/LAH/CLT/ENL/LIT/INR/CLP/EED/EEX/EHD/ ELD/EMR/SPA/ARH/FOL/FRE/FRT/FRW/JPN/LAS/SPN/SPT/SPW except ARH 3423, ARH 3470, ARH 3930, ARH 4710, ARH 4724, ARH 4800 and INR 4334.

Core Requirements ( 16 credits)

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EDF3151 Educational Psychology (3 Credits)
EDF3945 Field Laboratory I (2-4 Credits)
EDF3946 Field Laboratory II (2-4 Credits)
EDG3323 The Learning Process (3 Credits)
EDF4444 Assessment of Learn/Behavior (3 Credits)
EDG4410 Classroom Managment Commun (3 Credits)
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Major Requirements (35 credits)

## AST2002 Basic Astronomy (3 Credits)

- AST2002L must be taken with AST2002

BSC1011C General Biology II (4 Credits)
BSC3057 Intro to Environmental Studies (3 Credits)
EEX4484 Math Sci Except Lrnrs (3 Credits)
MAE4320 Spec Method: Middle Grade Math (3 Credits)
MTG3203 (GM)Gtry Middle School Teacher (3 Credits)
PHY1020 Introduction to Physics (2 Credits)

- PHY 1020 L must also be taken with PHY 1020

RED3333 Content Area Reading (3 Credits)
SCE4320 Special Methods: Mid Science (3 Credits)
SELECT Additional Math

- Select from one of the following prefixes:

MAA/MAC/MAD/MAP/MAS/MAT/MGF/MHF/MTG
TSL4324 TESOL for Content Area Teacher (3 Credits)
Internships (12 credits)
All degree course work must be completed satisfactorily prior to enrolling into Internship.
Applications for fall internship are due the 4th Friday of the previous spring term. Applications for spring internship are due the 4th Friday of the previous fall term.

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ESE4943 Student Internship (1-12 Credits)
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## Major: Science Education <br> Concentration: Biology (6-12) <br> Degree: Bachelor of Arts in Education

Prerequisites (29 credits)
Minimum "C" grade required. NOTE: UNF prefers that students take one Chemistry and one Physics course instead of two Physics courses in addition to the Biology.

EDF1005 Intro to Teaching Profession (3 Credits)

- Acceptable substitute: EDFX005

EDF2085 Intro to Diversity Educators (3 Credits)

- Acceptable substitutes: EDFX085, EDG2701

EME2040 Intro to Tech for Educators (3 Credits)

- Acceptable substitute: EMEX040

MAC2311 (GM) Calculus I (4 Credits)

- Acceptable substitute: MACX311, MACX241

BSC1010C General Biology I (4 Credits)

- Acceptable substitute: BSC X010/X010L

BSC1011C General Biology II (4 Credits)

- Acceptable substitute: BSC X011/X011L

CHM2045C General Chemistry I (4 Credits)

- Acceptable substitutes: CHMX045/X045L, PHYX048/X048L, PHYX048C, PHYX053/X053L, PHYX053C

CHM2046C General Chemistry II (4 Credits)

- Acceptable substitutes: PHYX048/X048L, PHYX048C, PHYX053/X053L, PHYX053C

Additional Diversity (6 credits)
Select six semesters hours with an international or diversity focus. This requirement may be satisified by the completion of the general education or free elective requirements during the first sixty semester hours. Foreign language courses may be used to meet this requirement.

SELECT_ 6 HOURS FROM THE FOLLOWING:

- CPO 3123 (FC) Pol/Soc of Britain \& Ireland
- CPO 4034 Third World Politics
- ECO 3703 International Trade
- ECO 4504 Public Finance
- ECO 4723 International Monetary System
- FIN 4604 International Finance
- GEO 2420 CD-Cultural Geography
- HSC 4141 Etiology: Addiction
- HSC 4160 Human Dev Health Beh Adc
- HSC 4563 Dimens: Hlth Older Adu
- MAR 4156 International Marketing
- MUH 2018 Evolution of Jazz
- MUH 3055 (FC) Afr Am Mus Heritage
- PET 4640 Adapted Phys Educ
- PHH 3100 Ancient Philosophy
- PHH 3120 (FC) Greek Experience
- PHH 3400 Modern Philosophy
- PHH 3500 19th Century Philosophy
- PHH 3811 Philosophy/Zen Buddhism
- PHH 4601 20th Century Cont Philosophy
- PHH 3860 (FC) Japanese Mind
- REL 2300 CD-Comparative Religion
- REL 3145 Woman Relg Wst Exper
- REL 3213 Hebrew Bible/Old Testament
- REL 3310 Asian Religions
- REL 3330 Religions of India
- REL 3443 Liberation Theology
- SOP 3742 CD-Pysch of Women
- SYD 3700 CD-Race/Cult Minority or ANT/ASH/EUH/LAH/CLT/ENL/LIT/INR/CLP/EED/EEX/EHD/ ELD/EMR/SPA/ARH/FOL/FRE/FRT/FRW/JPN/LAS/SPN/SPT/SPW except ARH 3423, ARH 3470, ARH 3930, ARH 4710, ARH 4724, ARH 4800 and INR 4334.

Foundation (8 credits)
BSC2012C General Biology III (4 Credits)
CHM2210 Organic Chemistry I (3 Credits)
CHM2210L Organic Chemistry I Laboratory (1 Credit)
Core Requirements ( 16 credits)

EDF3151 Educational Psychology (3 Credits)
EDF3945 Field Laboratory I (2-4 Credits)
EDF3946 Field Laboratory II (2-4 Credits)
EDF4444 Assessment of Learn/Behavior (3 Credits)
EDG3323 The Learning Process (3 Credits)
EDG4410 Classroom Managment Commun (3 Credits)

Major Requirements ( 27 credits)
Minimum grade of " C " or higher is required.
MCB3020C Microbial Biology (4 Credits)
PCB3023C Molecular and Cell Biology (4 Credits)
PCB3043C Principles of Ecology (4 Credits)
PCB3063C Genetics (4 Credits)
RED3333 Content Area Reading (3 Credits)
SCE4330 Special Meth:Secondary Science (3 Credits)
SELECT 2 courses @ 3000-4000 level from the following prefixes:

- AST/BCH/CHM/CHS/MCB/PCB/PHY/PHZ/PSC/ISC/ZOO

TSL4324 TESOL for Content Area Teacher (3 Credits)
Internships (12 credits)
All degree course work must be completed satisfactorily before enrolling into Internship. Fall internship applications are due the 4th Friday of the previous spring term. Spring internship applications are due the 4th Friday of the previous fall term.

ESE4943 Student Internship (1-12 Credits)

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## Major: Science Education <br> Concentration: Chemistry (6-12) <br> Degree: Bachelor of Arts in Education

Prerequisites (29 credits)
Minimum " C " grade required.
EDF1005 Intro to Teaching Profession (3 Credits)

- Acceptable substitute: EDFX005

EDF2085 Intro to Diversity Educators (3 Credits)

- Acceptable substitutes: EDFX085, EDG2701

EME2040 Intro to Tech for Educators (3 Credits)

- Acceptable substitute: EMEX040


## MAC2311 (GM) Calculus I (4 Credits)

- Acceptable substitute: MACX311

CHM2045C General Chemistry I (4 Credits)

- Acceptable substitute: CHMX045/X045L

CHM2046C General Chemistry II (4 Credits)

- Acceptable substitute: CHMX046/X046L

BSC1010C General Biology I (4 Credits)

- Acceptable substitute: BSCX010/X010L

PHY2048C Fund Physics I (4 Credits)

- Acceptable substitutes: PHYX048/PHYX048L, PHYX053/X053L PHYX053C, PHYX054C

Additional Diversity (6 credits)
Select six semesters hours with an international or diversity focus. This requirement may be satisified by the completion of the general education or free elective requirements during the first sixty semester hours. Foreign language courses may be used to meet this requirement.

SELECT_ 6 HOURS FROM THE FOLLOWING:

- CPO 3123 (FC) Pol/Soc of Britain \& Ireland
- CPO 4034 Third World Politics
- ECO 3703 International Trade
- ECO 4504 Public Finance
- ECO 4723 International Monetary System
- FIN 4604 International Finance
- GEO 2420 CD-Cultural Geography
- HSC 4141 Etiology: Addiction
- HSC 4160 Human Dev Health Beh Adc
- HSC 4563 Dimens: Hlth Older Adu
- MAR 4156 International Marketing
- MUH 2018 Evolution of Jazz
- MUH 3055 (FC) Afr Am Mus Heritage
- PET 4640 Adapted Phys Educ
- PHH 3100 Ancient Philosophy
- PHH 3120 (FC) Greek Experience
- PHH 3400 Modern Philosophy
- PHH 3500 19th Century Philosophy
- PHH 3811 Philosophy/Zen Buddhism
- PHH 4601 20th Century Cont Philosophy
- PHH 3860 (FC) Japanese Mind
- REL 2300 CD-Comparative Religion
- REL 3145 Woman Relg Wst Exper
- REL 3213 Hebrew Bible/Old Testament
- REL 3310 Asian Religions
- REL 3330 Religions of India
- REL 3443 Liberation Theology
- SOP 3742 CD-Pysch of Women
- SYD 3700 CD-Race/Cult Minority or ANT/ASH/EUH/LAH/CLT/ENL/LIT/INR/CLP/EED/EEX/EHD/ ELD/EMR/SPA/ARH/FOL/FRE/FRT/FRW/JPN/LAS/SPN/SPT/SPW except ARH 3423, ARH 3470, ARH 3930, ARH 4710, ARH 4724, ARH 4800 and INR 4334.


## Foundation (8 credits)

Minimum " C " grade required

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CHM2210 Organic Chemistry I (3 Credits)
CHM2210L Organic Chemistry I Laboratory (1 Credit)
CHM2211 Organic Chemistry II (3 Credits)
CHM2211L Organic Chemistry II Lab (1 Credit)
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Core Requirements ( 16 credits)

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EDF3151 Educational Psychology (3 Credits)
EDF3945 Field Laboratory I (2-4 Credits)
EDF3946 Field Laboratory II (2-4 Credits)
EDF4444 Assessment of Learn/Behavior (3 Credits)
EDG3323 The Learning Process (3 Credits)
EDG4410 Classroom Managment Commun (3 Credits)
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Major Requirements (29 credits)
CHM3120C Quantitative Analytical Chemis (4 Credits)
CHM3610 Inorganic Chemistry (3 Credits)
CHM3610L Inorganic Chemistry Laboratory (1 Credit)
CHM4410C Physical Chemistry I (4 Credits)
RED3333 Content Area Reading (3 Credits)
SCE4330 Special Meth:Secondary Science (3 Credits)
SELECT 2 of the following:
Must select two of the three below

- BCH 4033 Biochemistry AND BCH 4033L Biochemistry Lab or
- CHM 4130C Mod Analytical Chemistry or
- CHS 4610 and CHS 4610L Environmental Chemistry and lab

TSL4324 TESOL for Content Area Teacher (3 Credits)

Internships (12 credits)

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Major: English Education<br>Concentration: English (6-12)<br>Degree: Bachelor of Arts in Education

Prerequisites (18 credits)
EDF1005 Intro to Teaching Profession (3 Credits)

- Acceptable substitute: EDFX005

EDF2085 Intro to Diversity Educators (3 Credits)

- Acceptable substitutes: EDFX085, EDG2701

EME2040 Intro to Tech for Educators (3 Credits)

- Acceptable substitute: EMEX040

SPC2608 Fundamentals of Speech (3 Credits)

- Acceptable substitute SPCX017

ENGLISH Select 1 course for 3 credits

- ENLXXXX

LITERATURE Select 1 course for 3 credits

- LITXXXX
- AMLXXXX

Additional Diversity (6 credits)
Select six semesters hours with an international or diversity focus. This requirement may be satisified by the completion of the general education or free elective requirements during the first sixty semester hours. Foreign language courses may be used to meet this requirement.

SELECT_ 6 HOURS FROM THE FOLLOWING:

- CPO 3123 (FC) Pol/Soc of Britain \& Ireland
- CPO 4034 Third World Politics
- ECO 3703 International Trade
- ECO 4504 Public Finance
- ECO 4723 International Monetary System
- FIN 4604 International Finance
- GEO 2420 CD-Cultural Geography
- HSC 4141 Etiology: Addiction
- HSC 4160 Human Dev Health Beh Adc
- HSC 4563 Dimens: Hlth Older Adu
- MAR 4156 International Marketing
- MUH 2018 Evolution of Jazz
- MUH 3055 (FC) Afr Am Mus Heritage
- PET 4640 Adapted Phys Educ
- PHH 3100 Ancient Philosophy
- PHH 3120 (FC) Greek Experience
- PHH 3400 Modern Philosophy
- PHH 3500 19th Century Philosophy
- PHH 3811 Philosophy/Zen Buddhism
- PHH 4601 20th Century Cont Philosophy
- PHH 3860 (FC) Japanese Mind
- REL 2300 CD-Comparative Religion

REL 3145 Woman Relg Wst Exper

- REL 3213 Hebrew Bible/Old Testament
- REL 3310 Asian Religions
- REL 3330 Religions of India
- REL 3443 Liberation Theology
- SOP 3742 CD-Pysch of Women
- SYD 3700 CD-Race/Cult Minority or ANT/ASH/EUH/LAH/CLT/ENL/LIT/INR/CLP/EED/EEX/EHD/ ELD/EMR/SPA/ARH/FOL/FRE/FRT/FRW/JPN/LAS/SPN/SPT/SPW except ARH 3423, ARH 3470, ARH 3930, ARH 4710, ARH 4724, ARH 4800 and INR 4334.

Core Requirements (13 credits)

EDF3151 Educational Psychology (3 Credits)
EDF3945 Field Laboratory I (2-4 Credits)
EDF3946 Field Laboratory II (2-4 Credits)
EDF4444 Assessment of Learn/Behavior (3 Credits)
EDG4410 Classroom Managment Commun (3 Credits)

Major Requirements (42 credits)
LAE4335 Spec Method:Secondary English (3 Credits)
ENG4013 Approach to Lit Interpretation (3 Credits)
RED3333 Content Area Reading (3 Credits)
AML3621 (GW) Black American Literature (3 Credits)
LIT3333 (GW) Adolescent Literature (3 Credits)
ENL3333 Shakespeare (3 Credits)
ENC3310 G(W) Writing Prose (3 Credits)
LIN3010 Principles of Linguistics (3 Credits)
RED3310 Teaching Reading as a Process (3 Credits)
EEX3250 Read Mthds:Learners Exception (3 Credits)
TSL3080 Principles and Issues in TESOL (3 Credits)
TSL4340 TESOL Methods and Curriculum (3 Credits)
TSL4360 TESOL Meth \& Curr for Sec Tchr (3 Credits)
SELECT 1 FROM THE FOLLOWING LIST:

- AML 3102 G(W) American Fiction
- AML 3154 G(W) American Poetry
- ENG 4105 Film as Literature
- ENL 3112 G(W) British Novel I
- ENL 3132 G(W) British Novel II
- LIT 3043 G(W) Modern Comtemporary Drama
- LIT 3331 G(W) Children's Literature
- LIT 4041 Study in Drama
- LIT 3045 Periods of Drama Literature
* 

Internships (12 credits)
All degree course work must be completed satisfactorily before enrolling into Internship. Fall internship applications are due the 4th Friday of the previous spring term. Spring internship applications are due the 4th Friday of the previous fall term.

ESE4943 Student Internship (1-12 Credits)

## Table of Contents

## Major: Math Education <br> Concentration: Math (6-12) <br> Degree: Bachelor of Arts in Education

Prerequisites (21 credits)
A grade of " C " or better is required in all prerequisite coursework.
EDF1005 Intro to Teaching Profession (3 Credits)

- Acceptable substitute: EDFX005

EDF2085 Intro to Diversity Educators (3 Credits)

- Acceptable substitutes: EDFX085, EDG2701

EME2040 Intro to Tech for Educators (3 Credits)

- Acceptable substitute: EMEX040

MAC2311 (GM) Calculus I (4 Credits)

- Acceptable substitute: MACX311

MAC2312 (GM) Calculus II (4 Credits)

- Acceptable substiute: MACX312


## SELECT One 4HR Math Elective

- MACXXXX/MTGXXXX/MASXXXX

Additional Diversity (6 credits)
Select six semesters hours with an international or diversity focus. This requirement may be satisified by the completion of the general education or free elective requirements during the first sixty semester hours. Foreign language courses may be used to meet this requirement.

SELECT_ 6 HOURS FROM THE FOLLOWING:

- CPO 3123 (FC) Pol/Soc of Britain \& Ireland
- CPO 4034 Third World Politics
- ECO 3703 International Trade
- ECO 4504 Public Finance
- ECO 4723 International Monetary System
- FIN 4604 International Finance
- GEO 2420 CD-Cultural Geography
- HSC 4141 Etiology: Addiction
- HSC 4160 Human Dev Health Beh Adc
- HSC 4563 Dimens: Hlth Older Adu
- MAR 4156 International Marketing
- MUH 2018 Evolution of Jazz
- MUH 3055 (FC) Afr Am Mus Heritage
- PET 4640 Adapted Phys Educ
- PHH 3100 Ancient Philosophy
- PHH 3120 (FC) Greek Experience
- PHH 3400 Modern Philosophy
- PHH 3500 19th Century Philosophy
- PHH 3811 Philosophy/Zen Buddhism
- PHH 4601 20th Century Cont Philosophy
- PHH 3860 (FC) Japanese Mind
- REL 2300 CD-Comparative Religion
- REL 3145 Woman Relg Wst Exper
- REL 3213 Hebrew Bible/Old Testament
- REL 3310 Asian Religions
- REL 3330 Religions of India
- REL 3443 Liberation Theology
- SOP 3742 CD-Pysch of Women
- SYD 3700 CD-Race/Cult Minority or ANT/ASH/EUH/LAH/CLT/ENL/LIT/INR/CLP/EED/EEX/EHD/ ELD/EMR/SPA/ARH/FOL/FRE/FRT/FRW/JPN/LAS/SPN/SPT/SPW except ARH 3423, ARH 3470, ARH 3930, ARH 4710, ARH 4724, ARH 4800 and INR 4334.

Core Requirements (16 credits)

EDF3151 Educational Psychology (3 Credits)
EDF3945 Field Laboratory I (2-4 Credits)
EDF3946 Field Laboratory II (2-4 Credits)
EDF4444 Assessment of Learn/Behavior (3 Credits)
EDG3323 The Learning Process (3 Credits)
EDG4410 Classroom Managment Commun (3 Credits)

Major Requirements (38 credits)

```
MAA4200 (GM) Mathematical Analysis (4 Credits)
MAC2313 (GM) Calculus III (4 Credits)
MAE4330 Spec Method: Secondary Math (4 Credits)
MAS3105 (GM) Linear Algebra (4 Credits)
MAS3203 (GM) Number Theory (3 Credits)
MHF3202 (GM)Foundations of Mathematics (3 Credits)
MHF3404 (GM) History of Mathematics (3 Credits)
MTG3212 (GM) Modern Geometry (3 Credits)
RED3333 Content Area Reading (3 Credits)
STA4321 (GM)Probability and Statistics (4 Credits)
TSL4324 TESOL for Content Area Teacher (3 Credits)
```

Internships (12 credits)
All degree course work must be completed satisfactorily before enrolling into Internship. Fall internship applications are due the 4th Friday of the previous spring term. Spring internship applications are due the 4th Friday of the previous fall term.

ESE4943 Student Internship (1-12 Credits)

## Table of Contents

## Major: Science Education <br> Concentration: Physics (6-12) <br> Degree: Bachelor of Arts in Education

## Prerequisites (29 credits)

EDF1005 Intro to Teaching Profession (3 Credits)

- Acceptable substitute: EDFX005

EDF2085 Intro to Diversity Educators (3 Credits)

- Acceptable substitutes: EDFX085, EDG2701

EME2040 Intro to Tech for Educators (3 Credits)

- Acceptable substitute: EMEX040

MAC2311 (GM) Calculus I (4 Credits)

- Acceptable substitute: MACX311

MAC2312 (GM) Calculus II (4 Credits)
MAC2313 (GM) Calculus III (4 Credits)
PHYSICS Requirement:
Choose one from the following:

- PHY 2048/PHY 2048L and PHY 2049/PHY 2049L OR
- PHY 2048C and PHY 2049C OR
- PHY 2053/ PHY 2053L and PHY 2054/PHY 2054L OR
- PHY 2053C and PHY 2054C OR

CHM2045C General Chemistry I (4 Credits)

- Acceptable substitutes: CHMX045/X045L, CHMX045C,or
- CHMX046C, or CHMX046/X046L

Additional Diversity (6 credits)
Select six semesters hours with an international or diversity focus. This requirement may be satisified by the completion of the general education or free elective requirements during the first sixty semester hours. Foreign language courses may be used to meet this requirement.

SELECT_ 6 HOURS FROM THE FOLLOWING:

- CPO 3123 (FC) Pol/Soc of Britain \& Ireland
- CPO 4034 Third World Politics
- ECO 3703 International Trade
- ECO 4504 Public Finance
- ECO 4723 International Monetary System
- FIN 4604 International Finance
- GEO 2420 CD-Cultural Geography
- HSC 4141 Etiology: Addiction
- HSC 4160 Human Dev Health Beh Adc
- HSC 4563 Dimens: Hlth Older Adu
- MAR 4156 International Marketing
- MUH 2018 Evolution of Jazz
- MUH 3055 (FC) Afr Am Mus Heritage
- PET 4640 Adapted Phys Educ
- PHH 3100 Ancient Philosophy
- PHH 3120 (FC) Greek Experience

PHH 3400 Modern Philosophy

- PHH 3500 19th Century Philosophy
- PHH 3811 Philosophy/Zen Buddhism
- PHH 4601 20th Century Cont Philosophy
- PHH 3860 (FC) Japanese Mind
- REL 2300 CD-Comparative Religion
- REL 3145 Woman Relg Wst Exper
- REL 3213 Hebrew Bible/Old Testament
- REL 3310 Asian Religions
- REL 3330 Religions of India
- REL 3443 Liberation Theology
- SOP 3742 CD-Pysch of Women
- SYD 3700 CD-Race/Cult Minority or ANT/ASH/EUH/LAH/CLT/ENL/LIT/INR/CLP/EED/EEX/EHD/ ELD/EMR/SPA/ARH/FOL/FRE/FRT/FRW/JPN/LAS/SPN/SPT/SPW except ARH 3423, ARH 3470, ARH 3930, ARH 4710, ARH 4724, ARH 4800 and INR 4334.

Foundation (4 credits)
AST2002 Basic Astronomy (3 Credits)
AST2002L Basic Astronomy Lab (1 Credit)

Core Requirements (16 credits)

```
EDF3151 Educational Psychology (3 Credits)
EDF3945 Field Laboratory I (2-4 Credits)
EDF3946 Field Laboratory II (2-4 Credits)
EDF4444 Assessment of Learn/Behavior (3 Credits)
EDG3323 The Learning Process (3 Credits)
EDG4410 Classroom Managment Commun (3 Credits)
```

Major Requirements (31 credits)
PHY3101 Modern Physics (3 Credits)
PHY3101L Modern Physics Lab (1 Credit)
PHY3220 Classical Mechanics (4 Credits)
PHY3320 Electricity and Magnetism (4 Credits)
PHY3424 Optics (3 Credits)
PHY3722C Electronics for Scientists (4 Credits)
PHY4523 Thermodyn and Statistical Mech (4 Credits)
RED3333 Content Area Reading (3 Credits)
SCE4330 Special Meth:Secondary Science (3 Credits)
TSL4324 TESOL for Content Area Teacher (3 Credits)

Internships (12 credits)
EDE4943 Practicum II: Student Intern (12 Credits)

## Table of Contents

## Major: Social Studies Education <br> Concentration: Social Studies (6-12) <br> Degree: Bachelor of Arts in Education

```
Prerequisites (21 credits)
    Grade of C or higher required
            EDF1005 Intro to Teaching Profession (3 Credits)
                    - Acceptable substitute: EDFX005
EDF2085 Intro to Diversity Educators (3 Credits)
                    - Acceptable substitutes: EDFX085, EDG2701
EME2040 Intro to Tech for Educators (3 Credits)
- Acceptable substitute: EMEX040
POS2041 Intro to American Government (3 Credits)
- Acceptable substitute: POSX041
AMH2010 United States History to 1877 (3 Credits)
- Acceptable substitute: AMHX010
AMH2020 U.S. History Since 1877 (3 Credits)
- Acceptable substitute: AMHX020
ADDITIONAL Social Studies course
Select 1 course from the following disciplines
- Anthropology (ANT)
- Cultural Geography (GEO)
- ***(Acceptable Substitute for GEO is GEA XXXX )
- Economics (ECO)
- Psychology (PSY)
- Sociology (SOC)
Additional Diversity (6 credits)
```

Select six semesters hours with an international or diversity focus. This requirement may be satisified by the completion of the general education or free elective requirements during the first sixty semester hours. Foreign language courses may be used to meet this requirement.

SELECT_ 6 HOURS FROM THE FOLLOWING:

- CPO 3123 (FC) Pol/Soc of Britain \& Ireland
- CPO 4034 Third World Politics
- ECO 3703 International Trade
- ECO 4504 Public Finance
- ECO 4723 International Monetary System
- FIN 4604 International Finance
- GEO 2420 CD-Cultural Geography
- HSC 4141 Etiology: Addiction
- HSC 4160 Human Dev Health Beh Adc
- HSC 4563 Dimens: Hlth Older Adu
- MAR 4156 International Marketing
- MUH 2018 Evolution of Jazz
- MUH 3055 (FC) Afr Am Mus Heritage
- PET 4640 Adapted Phys Educ
- PHH 3100 Ancient Philosophy
- PHH 3120 (FC) Greek Experience
- PHH 3400 Modern Philosophy
- PHH 3500 19th Century Philosophy
- PHH 3811 Philosophy/Zen Buddhism
- PHH 4601 20th Century Cont Philosophy
- PHH 3860 (FC) Japanese Mind
- REL 2300 CD-Comparative Religion
- REL 3145 Woman Relg Wst Exper
- REL 3213 Hebrew Bible/Old Testament
- REL 3310 Asian Religions
- REL 3330 Religions of India
- REL 3443 Liberation Theology
- SOP 3742 CD-Pysch of Women
- SYD 3700 CD-Race/Cult Minority or ANT/ASH/EUH/LAH/CLT/ENL/LIT/INR/CLP/EED/EEX/EHD/ ELD/EMR/SPA/ARH/FOL/FRE/FRT/FRW/JPN/LAS/SPN/SPT/SPW except ARH 3423, ARH 3470, ARH 3930, ARH 4710, ARH 4724, ARH 4800 and INR 4334.

Core Requirements (16 credits)

```
EDF3151 Educational Psychology (3 Credits)
EDF3945 Field Laboratory I (2-4 Credits)
EDF3946 Field Laboratory II (2-4 Credits)
EDG3323 The Learning Process (3 Credits)
EDF4444 Assessment of Learn/Behavior (3 Credits)
EDG4410 Classroom Managment Commun (3 Credits)
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Major Requirements (34 credits)

```
AMH3420 Florida History (3 Credits)
ECO3622 American Economic History (3 Credits)
GEO3372 Conservation of Nat Resources (3 Credits)
HIS3051 (GW)Craft Of The Historian (3 Credits)
INR3016 Global Issues in Contemp Poli (3 Credits)
RED3333 Content Area Reading (3 Credits)
SSE4384 Special Method: Social Studies (4 Credits)
ASH 3000 LEVEL COURSE
```

- Select one ASH course at the 3000-4000 level.


## HISTORY 3000 LEVEL COURSE

- From the following prefixes: AFH/AMH/ASH/EUH/HIS/LAH NOTE: if AMH 2000 was not taken to meet prerequisites, this course must be any AMH 3000-level course other than AMH 3420 AFH/AMH/ASH/EUH/HIS/LAH/WOH

LAH_3300 OR ANY LAH 3000 LEVEL COURSE *

TSL4324 TESOL for Content Area Teacher (3 Credits)
Internships (12 credits)
All degree course work must be completed satisfactorily before enrolling into Internship. Fall internship applications are due the 4th Friday of the previous spring term. Spring internship applications are due the 4th Friday of the previsou fall term.

ESE4943 Student Internship (1-12 Credits)

SELECT 1 CREDIT FROM THE FOLLOWING
LIST OF PREFIXES AT THE 3000-4000 LEVEL:

- AMH/ECO/EUH/HIS/INR/LAH/POS/PSY/SOP/SYA/SYG/SYO


## Table of Contents

## Major: Art Education

Concentration: Art Education (K-12)
Degree: Bachelor of Arts in Education

Prerequisites (27 credits)
A minimum " C " grade is required.
EDF1005 Intro to Teaching Profession (3 Credits)

- Acceptable substitute: EDFX005

EDF2085 Intro to Diversity Educators (3 Credits)

- Acceptable substitutes: EDFX085, EDG2701

EME2040 Intro to Tech for Educators (3 Credits)

- Acceptable substitute: EMEX040

ARH2050 Art History Survey I (3 Credits)

- Acceptable substitute: ARHX050

ARH2051 Art History Survey II (3 Credits)

- Acceptable substitute: ARHX051

ART1201C Two-Dimensional Design (3 Credits)

- Acceptable substitute: ARTX201

ART2203C Three-Dimensional Design (3 Credits)

- Acceptable substitutes: ARTX203, ARTX202

ART1300C Drawing I (3 Credits)

- Acceptable substitute: ARTX300

ART2301C Drawing II (3 Credits)

- Acceptable substitutes: ARTX301, ARTX330, ARTX205, ARTX310, ARTX305

Additional Diversity (6 credits)
Select six semesters hours with an international or diversity focus. This requirement may be satisified by the completion of the general education or free elective requirements during the first sixty semester hours. Foreign language courses may be used to meet this requirement.

SELECT_ 6 HOURS FROM THE FOLLOWING:

- CPO 3123 (FC) Pol/Soc of Britain \& Ireland
- CPO 4034 Third World Politics
- ECO 3703 International Trade
- ECO 4504 Public Finance
- ECO 4723 International Monetary System
- FIN 4604 International Finance
- GEO 2420 CD-Cultural Geography
- HSC 4141 Etiology: Addiction
- HSC 4160 Human Dev Health Beh Adc
- HSC 4563 Dimens: Hlth Older Adu
- MAR 4156 International Marketing
- MUH 2018 Evolution of Jazz
- MUH 3055 (FC) Afr Am Mus Heritage
- PET 4640 Adapted Phys Educ
- PHH 3100 Ancient Philosophy
- PHH 3120 (FC) Greek Experience
- PHH 3400 Modern Philosophy
- PHH 3500 19th Century Philosophy
- PHH 3811 Philosophy/Zen Buddhism
- PHH 4601 20th Century Cont Philosophy
- PHH 3860 (FC) Japanese Mind
- REL 2300 CD-Comparative Religion
- REL 3145 Woman Relg Wst Exper
- REL 3213 Hebrew Bible/Old Testament
- REL 3310 Asian Religions
- REL 3330 Religions of India
- REL 3443 Liberation Theology
- SOP 3742 CD-Pysch of Women
- SYD 3700 CD-Race/Cult Minority or ANT/ASH/EUH/LAH/CLT/ENL/LIT/INR/CLP/EED/EEX/EHD/ ELD/EMR/SPA/ARH/FOL/FRE/FRT/FRW/JPN/LAS/SPN/SPT/SPW except ARH 3423, ARH 3470, ARH 3930, ARH 4710, ARH 4724, ARH 4800 and INR 4334.

Foundation (3 credits)
ART2500C Painting Fundamentals (3 Credits)
Core Requirements ( 16 credits)
EDF3151 Educational Psychology (3 Credits)
EDF3945 Field Laboratory I (2-4 Credits)
EDF3946 Field Laboratory II (2-4 Credits)
EDG3323 The Learning Process (3 Credits)
EDF4444 Assessment of Learn/Behavior (3 Credits)
EDG4410 Classroom Managment Commun (3 Credits)

Major Requirements ( 31 credits)
ARE4353 Art Methods K-12 (4 Credits)
ARE4356 Tch Aesth, Crit, and Art Hist (3 Credits)
ART2400C Introduction to Printmaking (3 Credits)
ART3504C Painting Studio (3 Credits)
ART3707C Sculpture I (3 Credits)
ART3786C Ceramics (3 Credits)
ART4965C Fine Arts Portfolio (3 Credits)
PGY2401C Black and White Photography (3 Credits)
RED3333 Content Area Reading (3 Credits)
TSL4324 TESOL for Content Area Teacher (3 Credits)

Internships (12 credits)
All degree course work must be completed satisfactorily before enrolling in Internship. Fall internship applications are due the 4th Friday of the previous spring term. Spring internship applications are due the 4th Friday of the previous fall term.

EDE4943 Practicum II: Student Intern (12 Credits)

## Table of Contents

## Major: Physical Education <br> Concentration: Physical Education (K-12) <br> Degree: Bachelor of Arts in Education

Prerequisites (24 credits)
EDF1005 Intro to Teaching Profession (3 Credits)

- Acceptable substitute: EDFX005

EDF2085 Intro to Diversity Educators (3 Credits)

- Acceptable substitutes: EDFX085, EDG 2701

EME2040 Intro to Tech for Educators (3 Credits)

- Acceptable substitute: EMEX040

BSC2085C Human Anatomy and Physiology I (4 Credits)
BSC2086C Human Anatomy \& Physiology II (4 Credits)

- Acceptable substitute for BSC2086C is PETX622

SELECT 4-5 CREDIT HOURS
of Skill Development Courses in Physical Activities from the following prefixes:
PEM/PEN/PEL/PEO/PEP/PEQ (Must be in different sports.)
CHOOSE 3 credit hours from below:
Conditioning, Fitness and Wellness courses

- PEM 1131 Weight Training
- PEM 1930 Aerobic Dance
- PEN 2172 Fitness Swimming
- PEM 1104 Physical Conditioning

Additional Diversity (6 credits)
Select six semesters hours with an international or diversity focus. This requirement may be satisified by the completion of the general education or free elective requirements during the first sixty semester hours. Foreign language courses may be used to meet this requirement.

SELECT_ 6 HOURS FROM THE FOLLOWING:

- CPO 3123 (FC) Pol/Soc of Britain \& Ireland
- CPO 4034 Third World Politics
- ECO 3703 International Trade
- ECO 4504 Public Finance
- ECO 4723 International Monetary System
- FIN 4604 International Finance
- GEO 2420 CD-Cultural Geography
- HSC 4141 Etiology: Addiction
- HSC 4160 Human Dev Health Beh Adc
- HSC 4563 Dimens: Hlth Older Adu
- MAR 4156 International Marketing
- MUH 2018 Evolution of Jazz
- MUH 3055 (FC) Afr Am Mus Heritage
- PET 4640 Adapted Phys Educ
- PHH 3100 Ancient Philosophy
- PHH 3120 (FC) Greek Experience
- PHH 3400 Modern Philosophy
- PHH 3500 19th Century Philosophy
- PHH 3811 Philosophy/Zen Buddhism
- PHH 4601 20th Century Cont Philosophy
- PHH 3860 (FC) Japanese Mind
- REL 2300 CD-Comparative Religion
- REL 3145 Woman Relg Wst Exper
- REL 3213 Hebrew Bible/Old Testament
- REL 3310 Asian Religions
- REL 3330 Religions of India
- REL 3443 Liberation Theology
- SOP 3742 CD-Pysch of Women
- SYD 3700 CD-Race/Cult Minority or ANT/ASH/EUH/LAH/CLT/ENL/LIT/INR/CLP/EED/EEX/EHD/ ELD/EMR/SPA/ARH/FOL/FRE/FRT/FRW/JPN/LAS/SPN/SPT/SPW except ARH 3423, ARH 3470, ARH 3930, ARH 4710, ARH 4724, ARH 4800 and INR 4334.


## Foundation (6 credits)

CHOOSE PET 2351C or APK 3110C
TSL4324 TESOL for Content Area Teacher (3 Credits)
Core Requirements (28 credits)

```
EDF3945 Field Laboratory I (2-4 Credits)
EDF3946 Field Laboratory II (2-4 Credits)
EDG3323 The Learning Process (3 Credits)
EDF4444 Assessment of Learn/Behavior (3 Credits)
RED3333 Content Area Reading (3 Credits)
EDG4410 Classroom Managment Commun (3 Credits)
PET4945L Student Teaching (12 Credits)
```

Major Requirements (31 credits)
PE02004 Theory/Practice in Coaching
PEO3106 Fitness Education (3 Credits)
PET3311 Kinesiology and Motor Behavior (3 Credits)
PET3434 Teaching Movement (3 Credits)
PET3641 Cur Mth K12 and Adpt PE (3 Credits)
PET3820 Teaching Sport Skill (3 Credits)
PET4401 Admin Physical Education/Sport (3 Credits)
SELECT ONE PHYSICAL ED ELECTIVE
from the following list of prefixes:
PEL, PEN, PEO, PEP, PEQ, PEM, PET, HSC
SELECT_1 Health Elective
from the following:

- HSC 2100 Personal Health Issues \& Problems
- HSC 3555 Diseases: Prevention, Intervention \& Treatment
- HSC 4133 Sexuality Education
- HSC 4134 Mental/Emotional Health Education
- HSC 4150 Substance Abuse \& Violence Prevention
- HUN 2201 Basic Principles of Nutrition
- PEP 4135 Principles of Strength \& Conditioning
- PET 3080 Physical Activity \& Health
- PET 4550 Physical Fitness Assessment \& Exercise Prescri
- PET 2622 Care/Prevention of Sport Injuries (must take if
- not taken as a lower level prerequisite)


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## Major: Curriculum and Instruction <br> Concentration: Professional Education <br> Degree: Master of Education

Core Requirements (6 credits)
EDF6480 Foundations of Ed Research (3 Credits)
EDF6607 Education in America (3 Credits)

Major Requirements (18 credits)
EDG6070 Tchr Thinking/Decision Making (3 Credits)
ESE6215 Secondary School Curriculum (3 Credits)
EDG6923 Curriculum Readings (3 Credits)
SELECT_ 2 from the following:

- EDG 6336 Improvement of Instruction
- EME 6050 Enhancing Instruction with Technology
- EDG 6407 Managing Effective Learning Environments
- EDF 5608 Sociological Bases of Education
- EDG 6356 Gen Ed Comp: Models of Teaching

SELECT 1 from the following:

- LAE 6339 Spec. Methods: English
- SCE 6337 Spec Methods: Science
- SSE 6385 Spec Methods: Social Studies
- MAE 6336 Spec Methods: Math
- FLE 6555 Special Methods: Foreign Language

ELECTIVES Select as follows:
Select 3 Content Courses from Arts \& Sciences or other colleges in consultation with program sponsor.

Culminating Experience (3 credits)
EDG6911 Action Research in Education (3 Credits)

Major Electives (9 credits)
ELECTIVE Select 3 Courses ( 9 Hours)
Content Specialization: Content must satisfy initial certification requirements, plus 3 content courses (various semester hours) selected from Arts and Sciences in consultation with program sponsor.

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## Major: Sport Management

Degree: Bachelor of Science

```
Prerequisites (6 credits)
    ACG2021 Prin of Financial Accounting (3 Credits)
    ECO2013 Principles of Macroeconomics (3 Credits)
Major Requirements (30 credits)
    EDA4214 Rec. Dev. for NP Org. (3 Credits)
            - Offered Spring Only
    PET3473 Communication in Sport (3 Credits)
            - Offered Spring Only
    PET3493 Issues in Sport (3 Credits)
            - Offered Fall Only
PET4401 Admin Physical Education/Sport (3 Credits)
            - Offered Fall/Spring/Summer
PET4464 Sport Finance (3 Credits)
            - Offered Fall Only
PET4476 Sport Law (3 Credits)
            - Offered Fall Only
SPM2000 Intro to Spt Mgmt (3 Credits)
            - Offered Fall/Spring/Summer
    SPM3044 Governance and NCAA Compliance (3 Credits)
            - Offered Spring Only
    SPM3104 Sport Facility Management (3 Credits)
            - Offered Summer Only
    SPM3306 Sport Marketing (3 Credits)
            - Offered Spring Only
Required Business (15 credits)
    ECO2023 Principles of Microeconomics (3 Credits)
    MAN3025 Administrative Management (3 Credits)
    MAN3504 Operations Management (3 Credits)
    MAR3023 Principles of Marketing (3 Credits)
    STA2023 (GM) Elem Statistics-Business (3 Credits)
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Field Experience (15 credits)
SPM3948C Sport Management Practicum (3 Credits)

- Offered Fall/Spring/Summer

SPM4941 Sport Management Internship (12 Credits)

- Offered Fall/Spring/Summer


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## Major: Sport Management <br> Concentration: Community Sport <br> Degree: Bachelor of Science

Prerequisites (12 credits)
ACG2021 Prin of Financial Accounting (3 Credits)
BSC2085C Human Anatomy and Physiology I (4 Credits)

- Acceptable substitutes: PETX030C

ECO2013 Principles of Macroeconomics (3 Credits)
PET2622 Care/Prevention Sport Injuries (3 Credits)

- Acceptable substitute: PETX622C

Major Requirements (48 credits)
EDA4214 Rec. Dev. for NP Org. (3 Credits)
PET3473 Communication in Sport (3 Credits)
PET3493 Issues in Sport (3 Credits)
PET4401 Admin Physical Education/Sport (3 Credits)
PET4464 Sport Finance (3 Credits)
PET4476 Sport Law (3 Credits)
SPM2000 Intro to Spt Mgmt (3 Credits)
SPM3044 Governance and NCAA Compliance (3 Credits)
SPM3104 Sport Facility Management (3 Credits)
SPM3306 Sport Marketing (3 Credits)
_SELECT 6 courses or 18 hours
FROM THE FOLLOWING LIST:

- PET 3713 Spec Methods K-8/6-12 PE
- APK 3110C Physiology of Exercise
- PET3311 Kinesiology/Motor Behavior
- PET 4640 Adapted Physical Education
- PEP 3205 Gym/Body Man in Elem
- PEO 4004 Theory/Practice Coach
- PEO 3007 Selected Coaching
- PET 3474 Special Topics in Sports
- SPM 3948C Sport Management Practicum
- or choose any 3000-4000 level course from any HSC/HUN/ PEL/PEM/PEN Health/Fitness Sport Activity.
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Internships (12 credits)
SPM4941 Sport Management Internship (12 Credits)

## Table of Contents

## Minor: Sport Management

Minor: Sport Management (15 credits)

- SPM 3306 Sport Marketing (Spring only)
- PET 3473 Communication in Sport (Spring only)
- SPM 3044 Sport Governance (Spring Only)
- PET 4464 Sport Finance (Fall only)
- PET 3493 Issues in Sport (Fall only)
- PET 4476 Sport Law (Fall only)
- SPM 3104 Sport Facility Management (Summer only)
- PET 4401 Administration of PE/Sport (Fall/Sprg/Summer)

SPM2000 Intro to Spt Mgmt (3 Credits)
SELECT FOUR OF THE COURSES BELOW:

- SPM 3306 Sport Marketing
- PET 4464 Sport Finance
- PET 3473 Communication in Sport
- PET 4401 Administration of PE/Sport
- PET 3493 Issues in Sport
- PET 4476 Sport Law
- SPM 3104 Sport Facility Management
- SPM 3044 Sport Governance


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## Major: Educational Leadership <br> Degree: Doctor of Education

Major Requirements (64 credits)
EDA7980 Doctoral Dissertation Research (1-12 Credits)
A minimum of 24 hours of dissertation is required.
EDA7190 Evolving Idea of the Ed Leader (3 Credits)
EDA7192 Leadership:Group/Team Context (3 Credits)
EDA7193 Ed Leadership Iv:Leadsp/Change (3 Credits)
EDA7194 Seminar in Educational Policy (3 Credits)
EDA7262 Ed Leader III:Org Theory \& Des (3 Credits)
EDA7400 Research Ed Ld:Quantita Method (3 Credits)
EDA7410 Research Ed Ld:Qualita Method (3 Credits)
EDA7420 Foundations Research:Ed Leadsp (3 Credits)
EDA7421 Inquiry Into Rsch in Ed Leadsp (1 Credit)
EDA7945 Practicum:Leadership Assm/Deve (1-6 Credits)
Minimum of 3 hours required.
EDA7979 Research Seminar:Ed Leadership (3-6 Credits)
Minimum of 3 hours required.
EDF7215 Psy-Soc Aspects of Lrn \& Instr (3 Credits)
EDF7545 Philosophy of Education (3 Credits)
EDF7635 Cultrl/Soc Foundation of Ed (3 Credits)
(12 credits)
COGNATE 12 HOURS REQUIRED
12 hours of 6000-7000 level courses may be used for cognate. Courses must be within the same discipline. NOTE: Courses used in previous degree will not apply.

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Major: Educational Leadership
Concentration: School Leadership
Degree: Master of Education

Core Requirements (6 credits)
EDF6607 Education in America (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- EDF 6480 Foundations in Education Research
- EDG 6911 Action Research in Education
* 

Major Requirements (33 credits)
EDA6061 Introduction to Ed Leadership (3 Credits)
EDA6196 Leadership/Learning Organizat (3 Credits)
EDA6215 Developing School/Comm Resourc (3 Credits)
EDA6232 Law and Ethics in Edu Lead (3 Credits)
EDA6242 School Finance (3 Credits)
EDA6271 Technology and Ed Leadership (3 Credits)
EDA6945 Practicum in Educatl Leadrshp (1-9 Credits)
EDG6287 Princpls of School Acblty \& As (1-3 Credits)
EDG6625 Curriculum Leadership Schools (3 Credits)
EDS6050 Instructional Leadership (3 Credits)
EDS6130 Human Resource Deve in Educati (3 Credits)

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## Major: Educational Leadership <br> Concentration: Higher Education Admin. <br> Degree: Master of Education

Core Requirements (6 credits)
EDF6480 Foundations of Ed Research (3 Credits)
EDH6069 Foundations of Higher Ed (3 Credits)

Major Requirements (18 credits)
EDH6401 Higher Education Policy (3 Credits)
EDH6405 Higher Education Law (3 Credits)
EDH6505 Higher Education Finance (3 Credits)
EDH6635 Org and Leadershp in Higher Ed (3 Credits)
SDS6646 Foundations of Student Affairs (3 Credits)
SDS6700 Diversity in Higher Ed. (3 Credits)

Major Electives (12 credits)
CHOOSE 12 hours from the following:

- EDA 6930 Grants Development \& Proj Design
- EDA 6945 Practicum in Ed. Leadership
- EDA 6271 Technology and Educational Leadership
- EDA 6199 International Perspectives of Ed Leadership
- EDA 6191 Team Leadership
- EDA 6196 Ldrsp for Learng Organizations
- EDA 6302 Lifelong Learning \& Development
- EDG 6626 Curriculum Leadership
- EDS 6130 Human Resource Development in Ed.
- EME 6409 Interactive Distance Education
- EME 6601 Instructional Design \& Applications
- SDS 6640 Leadership of Student Affairs
- SDS 6645 Student Development in Higher Ed.
- SPM 5605 Sport Governance \& Compliance
- Non-Profit Management Certificate (12 hours)
- PAD 6142 Management of Non-profit Organizations
- PAD 6164 NPO Stakeholder Relations
- PAD 6208 NPO Financial Management
- PAD 6934 E-Governance in Public NP Org.
- or choose 4 with faculty advisor approval


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## Major: Educational Leadership <br> Concentration: Advanced Teaching \& Learning <br> Degree: Master of Education

Core Requirements (6 credits)

## SELECT 1 FROM THE FOLLOWING:

- EDF 6607 Education in America
- EDF 6687 Multi \& Urban Foundation in Education


## SELECT_1 FROM THE FOLLOWING:

- EDF 6480 Foundations in Education Research
- EDG 6911 Action Research in Education

Major Requirements (21 credits)

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EDS6050 Instructional Leadership (3 Credits)
EDA6945 Practicum in Educatl Leadrshp (1-9 Credits)
EDA6191 Team Leadership (3 Credits)
EDA6196 Leadership/Learning Organizat (3 Credits)
EDA6302 Lifelong Learning/Prof Develop (3 Credits)
EDG6285 Fundamentals of Program Eval (3 Credits)
EDG6626 Curr/Instr for Adult Learning (3 Credits)
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Major Electives (12 credits)

## SELECT 12 HOURS

## FROM THE FOLLOWING LIST

- EDA 6271 Ed Management System
- EDA 6330 Admin Management Student Services
- EDF 6211 Advanced Educational Psychology
- EDF 6442 Assessment in the Curriculum
- EDG 6287 Princ School Accountability \& Assessment
- EDG 6625 Curriculum Leadership in School
- EDG 6336 Improvement of Instruction
- EME 6405 Educational Web Design
- EME 6409 Interactive Distance Education
- EME 6418 Educational Multimedia
- EME 6441 Technology for Special Populations
- EME 6601 Instructional Design \& Application
- TSL 6142 ESOL Curriculum Development
- TSL 6345 Methods Teaching ESOL
- EEX 5053 Foundations in Special Education
- EEX 6283 Social, Personal, Career Exceptional Child
- OR a pre-approved elective


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## Major: Educational Leadership <br> Concentration: Educational Tech Leadership <br> Degree: Master of Education

Core Requirements (6 credits)
SELECT ONE FROM THE FOLLOWING:

- EDF 6607 Education in America OR
- EDF 6687 Multicultural \& Urban Foundations in Education

SELECT_ ONE FROM THE FOLLOWING:

- EDF 6480 Foundations in Education Research OR
- EDG 6911 Action Research in Education

Major Requirements (18 credits)
EDA6061 Introduction to Ed Leadership (3 Credits)
EDA6191 Team Leadership (3 Credits)
EDA6196 Leadership/Learning Organizat (3 Credits)
EDA6302 Lifelong Learning/Prof Develop (3 Credits)
EDG6285 Fundamentals of Program Eval (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- EDA 6271 Technology for Educational Leaders
- EME 5403 Technology in Education

Major Electives (15 credits)
EME6061 Ed Tech Portfolio (0 Credits)
SELECT_ 5 FROM THE FOLLOWING LIST:

- EME 6050 Enhance Instructional Technology
- EME 6405 Educational Web Design
- EME 6409 Interactive Distance Education
- EME 6418 Educational Multimedia
- EME 6441 Technology for Special Populations
- EME 6601 Instructional Design \& Application
- EME 6628 Education Technology Systems
- EME 7415 Education Design Multimedia
- EME 6046 Technology and Literacy
- Or AN ELECTIVE selected in consultation with an Educational Technology facutly advisor.


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Major: Educational Leadership
Concentration: Athletic Administration
Degree: Master of Education

Prerequisites (3 credits)
SPM6008 Foundations of Sport Mgt (3 Credits)

Core Requirements (6 credits)
Minimum of $B$ grades required
EDF6480 Foundations of Ed Research (3 Credits)
EDF6607 Education in America (3 Credits)

Major Requirements (30 credits)
" B " grade is required
SPM5206 Ethics and Issues in Sport (3 Credits)
SPM5308 Mkt and Promo in Sport (3 Credits)
SPM5506 Sport Finance (3 Credits)
SPM5605 Sport Gov and Compl (3 Credits)
SPM6106 Sport Facility and Risk Mgt (3 Credits)
EDS6130 Human Resource Deve in Educati (3 Credits)
EDA6232 Law and Ethics in Edu Lead (3 Credits)
EDA6191 Team Leadership (3 Credits)
EDG6285 Fundamentals of Program Eval (3 Credits)
SPB6946 Practicum in Ath Admin (3 Credits)

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## Major: Counselor Education <br> Concentration: School Counseling <br> Degree: Master of Education

Prerequisites
STUDENTS WHO HAVE NOT FULFILLED THE FL DOE ENDORSEMENTS FOR ESOL AND READING MUST TAKE THESE COURSES: TSL 6700 ISSUES IN ESOL FOR SCHOOL COUNSELORS AND RED 3333 CONTENT AREA READING.

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Core Requirements (6 credits)
EDF6495 Rsrch and Assess in Sch Cnsl (3 Credits)
EDF6607 Education in America (3 Credits)

Major Requirements (42 credits)

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MHS6407 Theories of Counseling (3 Credits)
MHS6421 Counseling Children/Adolescent (3 Credits)
MHS6482 Person/Life Span Development (3 Credits)
MHS6530 Group Work for Schl Counseling (3 Credits)
MHS6600 Seminar:Consultation Skills (3 Credits)
MHS6780 Lgl,Eth,Prof School Counseling (3 Credits)
SDS6000 School Family: Mng Student Beh (3 Credits)
SDS6014 Org/Adm of School Counseling (3 Credits)
SDS6310 Career/Lifestyle Development (3 Credits)
SDS6466 Crisis/Disaster Management (1 Credit)
SDS6820 Supervised Field Exp I (1 Credit)
SDS6821 Supervised Field Exp II (1 Credit)
SDS6830 Internship Couns/Coordination (3 Credits)
SDS6831 Mngmt of Resources (3 Credits)
SDS6832 Internship: Career Advising (3 Credits)
SDS6940 Practicum in School Counseling (3 Credits)
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## Florida's Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 27 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online Statewide Course Numbering System to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at http://scns.fldoe.org.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course profiles."

## Example of Course Identifier

$\left.\begin{array}{|l|l|l|l|l|l|}\hline \text { Prefix } & \begin{array}{l}\text { Level } \\ \text { Code }\end{array} & \begin{array}{l}\text { Century } \\ \text { Digit }\end{array} & \begin{array}{l}\text { Decade } \\ \text { Digit }\end{array} & \text { Unit Digit } & \text { Lab Code } \\ \text { ENC } & 1 & 1 & \text { (first digit) } & \begin{array}{l}\text { (second } \\ \text { digit) }\end{array} & \text { (third digit) }\end{array} \begin{array}{l}\text { (fourth } \\ \text { digit) }\end{array}\right]$

## General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three
digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions, as listed below in Exceptions to the General Rule for Equivalency.

For example, a freshman composition skills course is offered by 59 different postsecondary institutions. Each institution uses "ENC_101" to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "ENC" means "English Composition," the century digit " 1 " represents "Freshman Composition," the decade digit "0" represents "Freshman Composition Skills," and the unit digit "1" represents "Freshman Composition Skills I."

In the sciences and certain other areas, a " C " or " L " after the course number is known as a lab indicator. The " $C$ " represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at the community college is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101.

Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

NOTE: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on semester-term systems. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

## The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

## Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:
Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating non public postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

## Exceptions to the General Rule for Equivalency

Since the initial implementation of the SCNS, specific disciplines or types of courses have
been excepted from the guarantee of transfer for equivalent courses. These include varying topics courses that must be evaluated individually, or applied courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.
A. Courses not offered by the receiving institution.
B. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
C. Courses in the _900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Theses, and Dissertations.
D. College preparatory and vocational preparatory courses.
E. Graduate courses.
F. Internships, apprenticeships, practica, clinical experiences and study abroad courses with numbers other than those ranging from 900-999.
G. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (i.e., portfolio, audition, interview, etc.).

## Courses at Nonregionally Accredited Institutions

The Statewide Course Numbering System makes available on its home page (http://scns.fldoe.org) a report entitled "Courses at Nonregionally Accredited Institutions" that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to the Florida Department of Education, Office of Articulation, 1401 Turlington Building, 325 West Gaines Street, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at (850) 245-0427 or at http://scns.fldoe.org .

## Undergraduate Courses

## Clinical and Applied Movement Sciences

## Course Descriptions:

APK3115C: Practical Skills in Strength and Conditioning<br>Prerequisites: HSC 4612, PET 3312C, PET 3325, PET 3768C<br>Co-requisite: EP 4135 This course is designed to provide students with practical instruction in strength and conditioning activities that will assist clients in reaching their athletic goals.<br>Activities will address the athletic components of strength, power, speed, agility, and endurance.

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## APK4120C: Clinical Exercise Physiology

Prerequisites: HSC 4612, HSC 4615L, PET 3080 This course involves the study of how exercise is utilized as an intervention in the prevention and treatment of chronic disease. The physiology of medications typically prescribed in chronic disease will be addressed as well as their exercise interactions. The knowledge, skills, and abilities (KSAS) that help prepare students for American College Sports Medicine (ACSM) certification as an exercise specialist will be introduced.(A laboratory fee of $\$ 12.00$ will be assessed.)

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## HSC3553: Pathophysiology

Description: This 3 credit course involves the study of physiologic changes in the body that result from disease processes. An overview of basic concepts of disease processes will be provided and particular attention will be placed on the etiology, development, and progression of chronic diseases of the cardiovascular, pulmonary, neurologic, metabolic, and musculoskeletal systems.

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## HSC4612: Exercise Physiology for Health Science

This course is a study of how acute and chronic bouts of exercise change the structure and function of the human body. Emphasis will be given to the effects of exercise on health related fitness, the training of athletes, and the enhancement of sport performance.

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## HSC4615L: Lab Methods in Exercise Physiology for Health

## Science

Prerequisite or Corerequisite: HSC 4612. Field and laboratory tests and procedures commonly used in the study of Exercise Physiology for Health Science will be examined in this course. It is designed for undergraduate Community Health students with a minor in Exercise Science. (A laboratory fee of $\$ 25.00$ will be assessed.)

PEM3930: Special Topics in Exercise Science
Prerequisite: PET 3351C. An in-depth examination of one topic in the exercise science field. Topics will vary each semester but will be chosen from the following broad areas: fitness in special populations, exercise in rehabilitative settings, fitness, and cardiovascular health.

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## PEP4135: Principles of Strength and Conditioning

Prerequisites: PET 3351C and PET 3312C. In depth study of the scientific principles and techniques related to the strength and conditioning of the athletic population. Designed to provide a background for certification as a strengthening and conditioning specialist.

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## PET3080: Physical Activity Epidemiology

This course examines the current state of physical activity and public health with a particular focus on chronic diseases. This course will review the positive associations regular physical activity, exercise, and fitness purvey on overall health as well as examining the associations with various common, chronic conditions e.g. type 2 diabetes, heart disease. This course will be taught from an epidemiological perspective incorporating the use of the scientific literature with the objective of augmenting student knowledge in epidemiology and study design.

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#### Abstract

PET3312C: Biomechanics Prerequisites: BSC 2085C and BSC 2086C. Integration of mechanics, physics, and analysis of human motion. Emphasis will be placed on functional anatomy, musculoskeletal and neurological systems and pathomechanics of sports injuries.(A laboratory fee of \$15 assessed.)

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## PET3321: Gross Anatomy for Athletic Trainers

Prerequisites: Declared major in Athletic Training, PET 3603C and PET 3620. Corequisite: PET 3671. Study designed to expose the athletic training student to the macroscopic aspects of human morphology with emphasis on the musculoskeletal and neuromuscular systems. Human cadaveric specimens will be utilized along with other clinical and surgical information provided, in part, by qualified local medical professionals. (A laboratory fee of $\$ 75$ will be assessed.)

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## PET3324C: Gross Anatomy for Health Care Professionals

Prerequisites: BSC 2085C, BSC 2086C Study designed to expose students in health care professions to the macroscopic aspects of human morphology with emphasis on the musculoskeletal and neuromuscular systems. Human cadaveric specimens will be utilized along with other clinical and surgical information provided in part by qualified local medical professionals. A laboratory fee of $\$ 50.00$ will be assessed.

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Prerequisites: BSC 2085C and BSC 2086C with "B" grade or better The course focuses on analyzing, evaluating, and understanding exercise and sport skills. Early emphasis is on filming with video cameras to help; 1) identify and analyze the movement phases of various exercises and sport skills, and 2) generate illustrated scientific reports. Next, functional anatomy is learned in great detail to better understand the joint motions and muscles involved during exercise and sport. Last, the relevance of functional anatomy to injury prevention is addressed.

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## PET3603C: Introduction to Sports Medicine

This course introduces students to the philosophy, conceptual framework, and objectives of the UNF Athletic Training Education Program, the role of the NATABOC certified athletic trainer, and the relationship of athletic training to the U.S. health care system. Orientation to historical and contemporary issues and trends that affect the practices of athletic training are emphasized. Other sports medicine related topics such as risk management and injury prevention, pathology, assessment and care of injuries and illness, general medical conditions and disabilities, and psychosocial intervention and referral will also be introduced. (A laboratory fee of \$15 assessed.)

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## PET3620: Introduction to Athletic Injuries

Current principles and practices in the prevention, recognition, and management of athletic related injuries and illnesses. (A material fee of $\$ 11.50$ will be assessed.)

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## PET3621C: Orthopedic Taping and Bracing

Prerequisite: Declared major in Athletic Training. Corequisites: PET 3603C, PET 3620. Current principles and practice in the selection, fabrication, and application of tape, splints, casts, braces, and other orthotic devices used in athletic training and sports medicine. (A laboratory fee of $\$ 30$ will be assessed.)

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## PET3624C: Emergency Management of Athletic Trauma

Prerequisites: HSC 2400, PET 3603C, PET 3620, and a declared major in Athletic Training. Advanced study and application of emergency management techniques in dealing with trauma resulting from injuries and illnesses suffered by an athletic population. (A laboratory fee of \$15 assessed.)

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## PET3660: Athletic Training Administration

Prerequisites: PET 3603C, PET 3620 and declared major in Athletic Training. A study of the standards, policies and practices in the organization, supervision and administration of athletic training programs. Emphasis will be placed upon planning, developing, organizing and directing an athletic training program in a variety of sports medicine settings.

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PET3670: Athletic Training Clinical Instruction I
Prerequisite: Declared major in Athletic Training. Corequisites: PET 3603C, PET 3620, and PET 3621C. An intermediate clinical experience in an athletic training - sports medicine setting
with follow-up seminars. Student will integrate and apply academic work in providing care to injured athletes under the direct supervision of an NATA-BOC certified athletic trainer. To be taken in the Fall semester of the student's Junior year.(A material fee of $\$ 15$ assessed.)

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#### Abstract

PET3671: Athletic Training Clinical Instruction II Prerequisites: PET 3670 Co-requisites: PET 4632C and PET 4633C and PET 3321 An intermediate clinical experience in an athletic training - sports medicine setting with follow-up seminars. Student will integrate and apply academic work in providing care to injured athletes under the direct supervision of an NATA-BOC certified athletic trainer. To be taken in the Spring semester of the student's Junior year. (A material fee of $\$ 15$ assessed.)


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## PET3672: Observation and Practicum in Athletic Training I

Prerequisites: Declared major in Athletic Training, PET 3603C, PET 3620, and HSC 2400. A beginning clinical experience in an athletic training - sports medicine setting with follow-up seminars. Student will integrate and apply academic work in providing care to injured athletes under the direct supervision of an NATA-BOC certified athletic trainer. May be repeated for credit maximum number of 3 times for a maximum number of 9 credits.(A material fee of $\$ 15$ assessed.)

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## PET3673: Observation and Practicum in Athletic Training II

Prerequisite: PET 3672. A beginning clinical experience in an athletic training - sports medicine setting with follow-up seminars. Student will integrate and apply academic work in providing care to injured athletes under the direct supervision of an NATA-BOC certified athletic trainer. This class is an elected continuation of Observation and Practicum I. May be repeated for credit.(A material fee of $\$ 15$ assessed.)

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## PET3674: Clinical Experience in Athletic Training

PREREQS: PET 3670, PET 3671 and enrolled in the Athletic Training Program. This course is an intermediate clinical experience in an athletic training-sports medicine setting with follow-up seminars. Students will integrate and apply academic work in providing care to physically active individuals under the direct supervision of a NATABOC certified athletic trainer. This class is to be taken in the Summer semester between the first and second year in the Athletic Training Education Program. (A material fee of $\$ 7.50$ will be assessed.)

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## PET3768C: Practical Skills in Exercise Instruction

This course is designed to provide students with practical instruction in choosing and demonstrating appropriate activities that address the 5 components of fitness; aerobic endurance, anaerobic endurance, muscular strength, body composition, and flexibility. Particular attention will be placed on proper form and technique of muscle strengthening exercises, cardiorespiratory exercises, and group exercise instruction.

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interaction, and prepares students to develop suitable and innovative exercise training programs for future clients.

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## PET4550: Physical Fitness Assessment and Exercise Prescription

Prerequisite: PET 3351C. This course will cover traditional and state of the art processes used to assess physical fitness, as well as techniques used to prescribe personalized exercise programs. Supervised lab experiences in assessment and prescription will be included. (A material fee of $\$ 30$ will be assessed)

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## PET4623: Rehabilitation of Athletic Injuries

Prerequisite: PET 4630C. A study of the functional progressions and outcomes in the process of rehabilitating athletic injuries. Emphasis will be placed on rehabilitation goals and objectives as well as return participation criteria. (A material fee of $\$ 11.50$ will be assessed.)

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## PET4625: Research in Sports Medicine

This course is a study of the research process and its applications to sports medicine. Emphasis will be given to the components of scientific research and a scientific research proposal. Evaluation and interpretation of current research reports and manuscripts in the field of sports medicine will also be covered.

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## PET4627: Human Injury: Mechanisms and Prevention

Prerequisite: PET 3325 This course is designed to give the student a comprehensive understanding of common orthopedic injuries. Topics will include; physiology of tissue damage and repair, mechanisms of common injuries, injury prevention, basic primary care of injuries (1st Aid), modalities utilized in the rehabilitation of injuries, and the integration of the post rehab patient into an exercise program.

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## PET4630C: Therapeutic Exercise

Prerequisites: PET 3351C, and PET 4632C. A study of clinical sports therapy techniques used in the rehabilitation and reconditioning of athletic injuries. Includes goniometry, manual muscle testing, therapeutic and resistance exercises and proprioceptive neuromuscular facilitation. (A laboratory fee of \$15 assessed.)

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## PET4632C: Therapeutic Modalities

Prerequisites: PET 3603C, PET 3620, and declared major in Athletic Training. A study of current theory and application in the use of therapeutic modalities in the sports medicineathletic training setting. Emphasis will be placed on thermal, electrotherapeutic and hydrotherapeutic modalities. (A laboratory fee of \$15 assessed.)

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Prerequisites: PET 3603C, PET 3620, and declared major in Athletic Training. The study and practice of techniques used when assessing athletic injuries to the upper extremity, head and spine. (A laboratory fee of $\$ 15$ assessed.)

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## PET4634C: Orthopedic and Injury Assessment II

Prerequisite: PET 4633C. The study and practice of techniques used when assessing athletic injuries to the lower extremity and spine. (A laboratory fee of $\$ 15$ assessed.)

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## PET4676C: Athletic Training Clinical Experience

Prerequisite: Permission of Athletic Training Program Director This course will be a clinical experience in an athletic training setting through direct supervision of a Board of Certification certified athletic trainer and lecture and laboratory sessions. The student will integrate and develop skills and techniques while providing health care to athletes and patients. This course may be repeated up to 6 credits.

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## PET4677L: Independent Study in Athletic Training

Prerequisite: Permission of Athletic Training Program Director This course will be a specific research project of a sports medicine related topic with a supervising faculty member. This course may be repeated up to 6 credits.

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## PET4905: Independent Study in Exercise Science <br> v. 1-

Prerequisite: Permission of supervising faculty and Exercise Science Program Director This course will be a specialized study or research project of a exercise science related topic under the direction of program faculty. This course may be repeated up to 6 credits.

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## PET4933: Seminar in Athletic Training

Prerequisite: PET 3660. The advanced study and discussion of specialized topics and contemporary issues related to the field of athletic training. Emphasis will be placed on professional development and employment preparation. (A material fee of $\$ 11.50$ will be assessed.)

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PET4940: Clinical Practice in Athletic Training I
Prerequisite: PET 3671. Corequisites: PET 4633C, PET 3660, and PET 4630C. An advanced clinical experience in an athletic training - sports medicine setting with follow-up seminars. Student will integrate and apply academic work in providing care to injured athletes under the direct supervision of an NATA-BOC certified athletic trainer. To be taken the Fall semester of the student's Senior year. (A material fee of \$15 assessed.)

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Prerequisite: Completion of all other major and core program requirements This is a concentrated Exercise Science internship under a qualified supervisor in a selected work setting. The internship is designed as a culminating experience which provides the student with an opportunity to practice under careful observation and in cooperation with a skilled practitioner.

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## PET4943: Pre Internship in Exercise Science

Prerequisite: Completion of all major program requirements except PET 4942 The purpose of this course is to prepare students for entry into the professional field of exercise science. Students will review and practice entry-level assessment skills, prepare a professional portfolio, secure an internship site, and complete an internship work plan. Students will be provided with information about the variety of agencies and sites where exercise science is practiced. They will explore the variety of professional paths that exist in exercise science in preparation for selecting an internship site.

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## PET4947C: Clinical Practice in Athletic Training II

Prerequisite: PET 4940. Corequisites: PET 4634C, PET 4623, PET 4604, PET 4933, PEP 4135. An advanced clinical experience in an athletic training - sports medicine setting with follow-up seminars. Student will integrate and apply academic work in providing care to injured athletes under the direct supervision of an NATA-BOC certified athletic trainer. To be taken the Spring semester of the student's Senior year. (A laboratory fee of \$15 assessed.)

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## Undergraduate Courses

Nutrition and Dietetics

## Course Descriptions:

## DIE3213: Nutrition Therapy I

Prerequisite: HUN 3230, HUN 3231, HUN 2201, BCH 3023C, BSC 2085C \& BSC 2086C, CHM 2045C, FSS 1202, FSS 1202L, HUN 3403.
Description: Students will be able to identify common illness conditions of populations at different stages in the life cycle, conduct nutrition assessments and screen for special dietary needs, and plan progressive diets and diets modified in consistency and residue.

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DIE3246: Nutrition Therapy II
Prerequisite: DIE 3213. Students will assess nutrient needs of, and develop nutrient based care plans for, persons with various disease conditions.

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DIE3310: Community Nutrition
Prerequisite: HUN 2201. An introduction to state, federal, and local nutrition intervention programs and their impacts. Emphasis is placed on diagnostic tools used in community nutrition and programs as well as methods used to address community nutrition issues.

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## DIE4122: Management of Food and Nutrition Services I

Prerequisite: HUN 2201, MCB 2010C, FSS 1202, FSS 1202L, HSA 3111, MAC 1105. Description: Principles for effective management of food and nutrition services in various health care settings are provided. The component parts of the food service system, from purchasing through meal service, are explored along with methods for effective and efficient delivery of nutrition care.

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## DIE4125: Management of Food and Nutrition Services II

Prerequisite: DIE 4122. A study of methods for successful management of resources for food and nutrition services in the health care setting. Principles for planning and coordinating human resources, finances, materials, space, and equipment are included.

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DIE4515: Nutrition and Dietetics Professional Capstone
This capstone course for senior nutrition students will focus on professional issues in nutrition and dietetics, including practice areas, advanced degrees, specialty certifications, employment opportunities, supervised practice opportunities, ethics, and leadership. Students will develop
a professional resume and will sharpen their skills in negotiation, assertiveness, and interviewing.

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## DIE4900: Dietetics Readings and Conference <br> v. 1-

This course involves in-depth readings and group discussions and conferences on selected topics of critical issue in the dietetics field. Student readings will vary each semester and will involve a formal survey of the literature and presentation of a summary analysis of findings.

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## DIE4906: Dietetics Independent Study and Research

v. 1-

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Prerequisite: Permission of Department Chairperson This course involves design and completion of a specific dietetics research project conducted under the guidance of a faculty member. It may be repeated up to 12 credits.

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## DIE4912: Projects in Nutrition and Dietetics

v. 1-

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This course involves the development and implementation or participation in conducting a designated project in dietetics. Students will work with a faculty person to determine the topic and project.

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## DIE4931: Special Topics in Nutrition and Dietetics

This course is a detailed study of a topic in the dietetics field. Topics will vary each time the course is offered and will be based on the need to address a current dietetics issue or subject in detail. Students should refer to the "Schedule of Courses" or the department for further information. The course may be repeated for up to 12 credits with a change in course content.

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## FOS4041: Food Science and Composition

Prerequisites: FSS 1202, FSS 1202L, CHM 2045C. Corequisite: FOS 4041L. Students will study the composition of foods and the chemical, physical, and qualitative changes that occur as a result of food storage, preservation, processing, and production methods. Students will evaluate the role of agencies, programs, and laws in the regulation of foods and consumer protection.

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FOS4041L: Food Science and Composition Laboratory
Prerequisite: FSS 1202, FSS 1202L, CHM 2045C
Co-requisite: FOS 4041
Description: Students will learn practical skills related to food composition and the chemical, physical, and qualitative changes that occur as a result of food storage, preservation, processing, and production methods. Students will develop recipes or products that incorporate food science, safety, regulation, and consumer demand principles.
Course Fees: \$30

Corequisite: FSS 1202L. Students will acquire basic knowledge about food production and preparation. Included are basic principles of food science, food production, resource management, use and care of equipment, standards and evaluations of food products, recipe modification, safety, sanitation, purchasing, and agencies and laws related to food standards and grades.

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FSS1202L: Food Fundamentals Laboratory

Co-requisite: FSS 1202.
Description: Students will acquire practical laboratory skills and knowledge concerning basic food science composition and preparation. Included are basic principles of food science, food production, resource management, use and care of equipment, evaluations of food products, recipe modification, safety and sanitation, purchasing, and legal food standards and grades. Course Fees: \$30

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## FSS4230: Quantity Food Preparation

Prerequisites: FSS 1202, FSS 1202L, MCB 2013C, CHM 2045C. Large scale food preparation principles for application in a variety of commercial, institutional, community based settings.

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## FSS4230L: Field Experience in Quantity Food Preparation

Prerequisites: FSS 1202, FSS 1202L, MCB 2010C, CHM 2045C; Co or prerequisite: FSS 4230. Practical application of quantity food preparation principles in the commercial, institutional, and community setting. Students must meet the health requirements of the participating facility. May be repeated for 3 credits. (A laboratory fee of $\$ 15$ assessed.)

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## HSC3578: Food, Health and Society

This course is an analysis of how social, psychological, cultural, historical, political, and ecological factors impact food, nutrition, and society. Students will gain an understanding of the U.S. food system and how the food system structure and function affects societal health. The course will also discuss information about how food globalization impacts health. Emphasis will be given to understanding how food-related social factors impact nutrition and dietetics practice.

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HSC4572: Nutrition and Health
Prerequisite: CHM 2045C. A study of the processing and function of nutrients. Examines digestion, absorption and metabolism of nutrients as well as their food sources. Also examines energy balance, overweight and underweight and prevention of nutritional problems.

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Prerequisite: BSC 1005C. This course is an introduction to nutrition science using the scientific method and natural sciences principles from biology and chemistry to explore nutrient structures, usage/metabolism, functions, sources, standards, and roles in health and disease; and basic research methods.

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## HUN1003C: Weight Management through Nutrition and Fitness

Students will describe the nutrition and fitness principles of weight management and identify obstacles of, and set personal goals for, weight management. The students will describe and evaluate the major types of weight management techniques, products, and programs available in the U.S. market. Students will develop recipes and prepare dishes that are based on their personal weight management plan.

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## HUN2201: Basic Principles of Human Nutrition

Description: HUN 2201, Basic Principles of Nutrition, is an introductory course in food and nutrition science relative to the health and well-being of the individual and the community. The functions and chemical composition of the essential nutrients, and how they are processed and utilized in the body are discussed. Dietary habits, nutrient requirements, food choices, healthy eating practices, menu planning, shopping for food and food preparation are studied. Myths and misinformation about nutrition are identified and evaluated based on the scientific evidence. This course meets the 3 credits non-lab course requirement toward the General Education Natural Science requirements and learning through reflective judgment.

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HUN3230: Advanced Nutrition Science I
Prerequisites:HUN 2201,CHM 2045, CHM 2045L, BSC2085C, BSC2086C Co-requisites: FSS 1202, FSS 1202L, BSH 3023C (all may be taken earlier) This course covers the advanced study of macronutrients (carbohydrates proteins and lipids) fiber and energy as well as their function in relation to human requirements. Advanced concepts of macronutrients and fiber digestion, absorption and metabolism, as well as energy metabolism, food sources, human requirements and biochemical markers of nutrient deficiency/excess will be discussed. The concepts of energy balance, regulation of food intake, overnutrition, disordered eating, chronic disease (diabetes, hypoglycemia, obesity and cardiovascular diseases), physical activity and its implications for human health will be covered.

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## HUN3231: Advanced Nutrition Science II

Prerequisite: HUN 3230 This course covers the advanced study of micronutrients (vitamins, pseudovitamins, minerals, trace and ultratrace elements) and their function in the body systems in relation to human requirements. Micronutrients digestion, absorption, metabolism, food sources, human requrements and biochemical markers of nutrient deficiency/excess will be discussed. Advanced concepts in acid-base and fluid-electrolyte balance, water and its role in blood pressure and volume regulation will be covered. The role of micronutrients in bone health, immunity, energy metabolism will be discussed. The role of phytochemicals and antioxidants in the prevention of chronic diseases (cancer and cardiovascular diseases among others) will be covered.

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HUN3800: Nutrition Science Research and Ethics
Prerequisites: STA 2014, HUN 2201 This course is designed to develop basic skills related to finding, reading and applying research findings in the field of nutrition \& dietetics. Students will conduct a literature search and develop a literature review. The course also provides an overview of the ethical considerations involved in human research and the concept of evidence-based dietetic practice.

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## HUN4016C: Nutrition Counseling and Communication

Prerequistes: HUN 2201, HUN 3230, HUN 3231 Through lecture, lab and video recording activities, students will describe theories related to communication, motivation, and nutrition counseling and apply basic nutrition counseling methods to the conduct of nutrition interviews and counseling sessions.

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HUN4414: Nutrition for Physical Activity and Health
Prerequisite: HUN 2201 A detailed study of the relationship between athletic performance and nutrition. Topics covered include the energy systems and the fuel sources utilized; the role of protein, carbohydrates, and fat in the athlete's diet; appropriate vitamin and mineral intake; hydration and fluid replacements; ergogenic aids and nutritional quackery.

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HUN4601C: Nutrition Education
Prerequisite: HUN 2201, HUN 3230, and HUN 3231
Description: Through lecture and lab activities, students will describe learning theories applicable to nutrition education, plan nutrition education sessions, develop nutrition education materials and work with instructional media in preparation for group and individual nutrition education. Students will modify nutrition education materials for varied population groups.

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## Table of Contents

## Undergraduate Courses

## Nursing

## Course Descriptions:

## NSP3486: AIDS: A Health Perspective

This course provides a comprehensive view of the spectrum of HIV infection from a multidisciplinary perspective. Faculty from the College of Health and invited experts in the community will present content relevant to: risk, prevention, testing, counseling and treatment. Ethical/legal, psychosocial and health care values are also addressed.

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## NSP3785: RN Refresher

Prerequisites: Current licensure as a Registered Nurse; permission from the Nurses Manager of the Department of Nursing Education at Baptist Medical Center. This course provides a review of the body systems using the nursing process. Nurses will apply concepts in clinical practice. The course will provide clinical experience with assessment skills, data collection, nursing care plan and intervention and patient outcomes. Nurses will be expected to demonstrate entry level RN competency in the clinical setting.

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## NSP4955: Culture and Health Care in Ireland

Prerequisite: At least a junior standing and an interest in health care. A nine-day international travel program to Ireland for UNF students. Focus is on the Irish health care system, arts and culture. This international study course will provide UNF students and members of the health care community the opportunity to spend one week in Ireland visiting cultural sites, attending presentations related to health care delivery in Ireland, and observing selected health care settings. This is a Pass/Fail course.

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## NUR2930: Special Topics in Nursing

Electives on various issues related to nursing. Topics will vary and may include: AIDS: A Health Care Perspective, Introduction to Professional Nursing, etc. May be repeated up to 15 credits with different course content.

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## NUR3026L: Nursing Therapeutics I

Prerequisite: Admission to the Nursing Program Corequisites: NUR 3065L, NUR 3119, NUR 3619, NUR 3166, NUR 3118L This course includes information required for basic therapeutic nursing interventions. The focus of this course is on the development of psychomotor skills required to provide direct or indirect nursing care for individuals across the lifespan.

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Prerequisite: NUR 3026L. Corequisites: NUR 3535C This course includes information required for advanced therapeutic nursing interventions. The focus of this course is on the development of psychomotor skills required to provide direct or indirect nursing care for individuals across the lifespan.

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## NUR3028L: Nursing Competencies

Prerequisite: Admissions to the Accelerated Option in the Prelicensure Nursing Track Corequisites: NUR 3065L, NUR 3066L, NUR 3128, NUR 3619 This course includes information required for therapeutic nursing interventions. The focus of this course is on the development of psychomotor skills required to provide direct or indirect nursing care for individuals across the lifespan.

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## NUR3065L: Health Assessment of Individuals Across the Lifespan

Prelicensure Students:Prerequisites: Admissions to the nursing program Prelicensure Corequisites: NUR 3026L or NUR3028L, NUR 3118L or NUR 3066L, NUR 3619 RN-BSN Co-requisite: NUR 3166 This course includes information required for the health assessment of the individual throughout the lifespan. The focus is on the development of a collaborative partnership with the individual and the assessment of biological, psychological, environmental, and sociocultural systems with emphasis on sociocultural and developmental variations. The nursing process is introduced and the development of nursing diagnoses based on assessment findings is presented. The emphasis is on knowledge and skills required to critically evaluate health assessment data. (A laboratory fee of $\$ 15$ will be assessed.)

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## NUR3082: Transition Concepts

Prerequisite: NUR 3065L, NUR 3166, NUR 3619
Description: This course includes information on issues and concepts related to professional nursing roles and practice, including concepts for collaborative nursing practice. Emphasis is on factors that affect the optimal health and well being of vulnerable individuals, families, and communities with a special emphasis on information required for assessment and health promotion of those coping with chronic illness or disease.

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NUR3082L: Transition Practice
Prerequisite: NUR 3065L, NUR 3166, NUR 3619, and NUR 3825
Co-requisite: NUR 3167, NUR 4826, NUR 4827, and NUR 3082
Description: The learner will participate in clinical activities as a provider of culturally competent, evidence-based nursing care.

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## NUR3118L: Clinical Nursing Practice

Prerequisite: Admission to the Nursing Program Corequisites: NUR 3065L, NUR 3619, NUR 3166, NUR 3026L, NUR 3119 This course provides the opportunity to use knowledge and skills in nursing care in a variety of environments of care. The focus is on the use of the nursing process in collaborative partnerships with individuals, families, and communities. The
learner will participate in clinical activities as a provider of culturally sensitive, evidence-based nursing care.

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NUR3128: Pathophysiology and Pharmacology
Prerequisite: Admission to the Nursing Program or permission of the instructor This course includes information about the pathophysiology, etiology and pharmacotherapeutic management of disease processes across the lifespan. The focus is on alterations in physiologic function as manifestations of disease with attention to differences in children, adults and older adults. Emphasis is placed on relating signs, symptoms and laboratory findings of common alterations and understanding the appropriate pharmacologic management.

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#### Abstract

NUR3166: Nursing Science I Prerequisite: Admission to the Nursing Program. Corequisite: NUR 3065L The course introduces the UNF School of Nursing Philosophy and Conceptual Framework, standardized nursing languages, taxonomies and classification systems. The focus is on nursing research evidence for practice and the review of scientific literature. Emphasis is on the use of a variety of technologic aids, such as bibliographic databases and web-based resources available to nurse scientists.


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## NUR3167: Nursing Science II

Prerequisites: NUR 3166 or NUR 3816 This course includes information related to research and evidence-based practice processes. The focus is on assessment of the elements of research reports for quality. Emphasis is on skill development in rapid critical appraisal toward integrating research evidence into best practices.

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## NUR3219C: Adult Health I Rehabilitation and Chronic Care Nursing Concepts and Practice

Prerequisite: NUR 3028L AND NUR 3065L AND NUR 3118L AND NUR 3619 AND NUR 3825 Co-requisite: NUR 3531C and NUR 3166 and NUR 3128
Description: The course centers on rehabilitation and the nursing care of persons with chronic conditions or disabilities. The focus is on the use of the nursing process in collaborative partnership with adults who are experiencing physical illness or disease, in the inpatient and outpatient setting. Emphasis is on professional nursing roles and responsibilities in designing, managing, and evaluating care for adults in order to maintain, restore, and optimize their level of functioning. The learner will participate in clinical activities as a provider of culturally sensitive, evidence-based nursing care. This course, along with NUR 3531C Psychiatric and Mental Health Nursing Concepts and Practice, replaces NUR 3535C Psychiatric and Rehabilitative Nursing Concepts and Practice.

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NUR3225: Adult Health II Medical Surgical Nursing Concepts
Prerequisite: NUR 3128
Co-requisite: NUR 3536 and NUR 3235L
Description: This course includes information required for the care of adults with acute diseases and conditions. The focus is on the use of the nursing process in collaborative partnership with adults with physical illness or disease. Emphasis is on professional nursing
roles and responsibilities in designing, managing, and evaluating care for adults in order to maintain, restore, and optimize their level of functioning. The learner will participate in clinical activities as a provider of culturally sensitive, evidence-based nursing care.

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## NUR3229: Adult Health I Concepts of Rehabilitation and Chronic Care Nursing

Prerequisite: NUR 3028L and NUR 3065L and NUR 3128 and NUR 3619 and NUR 3619L Co-requisite: NUR 3225 and NUR 3235L and NUR 3816 and NUR 3532
Description: This course includes information required for the care of adults with chronic diseases and conditions. The focus is on the use of the nursing process in collaborative partnership with adults who are experiencing physical illness or disease, in the inpatient and outpatient setting. Emphasis is on professional nursing roles and responsibilities in designing, managing, and evaluating care for adults in order to maintain, restore, and optimize their level of functioning. The learner will participate in clinical activities as a provider of culturally sensitive, evidence-based nursing care.

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## NUR3235L: Clinical Practicum II

Prerequisites: NUR 3066L, NUR 3128 Corequisites: NUR 3255, NUR 3536 This course provides the opportunity to use knowledge and skills in nursing care in a variety of environments of care. The focus is on the use of the nursing process in collaborative partnerships with individuals, families, and communities. The learner will participate in clinical activities as a provider of culturally sensitive, evidence-based nursing care to individuals and families with psychiatric, rehabilitation, and medical-surgical nursing needs. (A laboratory fee of $\$ 15$ will be assessed.)

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## NUR3255C: Adult Health II Medical-Surgical Nursing Concepts and Practice

Prerequisite: NUR 3166 and NUR 3128 and NUR 3531C and NUR 3219C Co-requisite: NUR 3167 and NUR 4826
Description: This course, NUR 3255C Adult Health II Medical Surgical Nursing Concepts and Practice, includes information required for the care of adults with acute diseases and conditions. The focus is on the use of the nursing process in collaborative partnership with adults with physical illness or disease. Emphasis is on professional nursing roles and responsibilities in designing, managing, and evaluating care for adults in order to maintain, restore, and optimize their level of functioning. The learner will participate in clinical activities as a provider of culturally sensitive, evidence-based nursing care.

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## NUR3257: Critical Care Nursing

Prerequisite: RN or instructor's permission. This course provides a sound theoretical foundation for the delivery of professional nursing care to critically ill adults. The pathophysiology as well as the clinical management of clients will be emphasized.

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## NUR3531C: Psychiatric and Mental Health Nursing Concepts and Practice

Prerequisite: NUR 3028L and NUR 3065L and NUR 3118L and NUR 3619 and NUR 3825

> Co-requisite: NUR 3166 and NUR 3128 and NUR 3219C
> Description: This is the second clinical course for pre-licensure baccalaureate nursing students. This course includes information required for assessment and care that supports the adaptation of individuals with mental illness. The focus is on factors that affect the optimal health and well being of vulnerable individuals, families, and communities. Emphasis is on professional nursing roles and responsibilities in designing and managing care for individuals with psychiatric conditions in a variety of community and inpatient settings. The learner will participate in clinical activities as a provider of direct and indirect care. This course, along with NUR 3219C Adult Health I Rehabilitation and Chronic Care Nursing Concepts and Practice, replaces NUR 3535C Psychiatric and Rehabilitative Nursing Concepts and Practice.

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NUR3532: Concepts of Psychiatric and Mental Health Nursing
Prerequisite: NUR 3028L and NUR 3065L and NUR 3128 and NUR 3619 and NUR 3619L Co-requisite: NUR 3225 and NUR 3235L and NUR 3816 and NUR 3229
Description: This course includes information required for assessment and care that supports the adaptation of individuals with mental illness. The focus is on factors that affect the optimal health and well being of vulnerable individuals, families, and communities. Emphasis is on professional nursing roles and responsibilities in designing and managing care for individuals with psychiatric conditions in a variety of community and inpatient settings. The learner will participate in clinical activities as a provider of direct and indirect care.

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## NUR3535C: Psychiatric and Rehabilitative Nursing Concepts and Practice

PREREQUISITES: NUR 3118L, NUR 3026L, NUR 3065L; COREQUISITES: NUR 3027L, NUR 3128 This course includes information on factors that affect the optimal health and well being of vulnerable individuals, families, and communities. The focus is on the use of the nursing process in collaborative partnerships with individuals with physical or mental illness, disease, or disability. Emphasis is on professional nursing roles and responsibilities in designing and managing care for individuals with psychiatric and chronic conditions in a variety of environments of care. The learner will participate in clinical activities as a provider of direct and indirect culturally sensitive, evidence-based nursing care.

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## NUR3536: Psychiatric and Rehabilitative Nursing

Prerequisite: NUR 3065L, NUR 3128 Corequisites: NUR 3235L, NUR 3225 This course includes information on factors that affect the optimal health and well being of vulnerable individuals, families, and communities. The focus is on the use of the nursing process in collaborative partnerships with individuals with physical or mental illness, disease, or disability. Emphasis is on professional nursing roles and responsibilities in designing and managing care for individuals with psychiatric and chronic conditions in a variety of environments of care.

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## NUR3619: Family/Community Assessment

Prerequisite: Admission to the Nursing Program
Co-requisite: NUR 3028L and NUR 3065L and NUR 3128 and NUR 3619L Description: his course includes information required for family and community health assessment and nursing practice. Community health nursing is conceptualized within an ecological model that recognizes the influence of personal, social and environmental determinants of health on everyday life. The focus is on working in partnership with families
and communities to identify strengths and challenges for health promotion, risk reduction and illness prevention. Particular attention is given to cultural sensitivity and health literacy in community nursing practice.

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## NUR3619L: Clinical Practicum I

Prerequisite: Admission into the Accelerated Option of the Prelicensure Nursing Track. Corequisites: NUR 3065L, NUR 3619, NUR 3028L, NUR 3128 This course provides the opportunity to use knowledge and skills in nursing care in a variety of environments of care. The focus is on the use of the nursing process in collaborative partnerships with individuals, families, and/or communities. The learner will participate in clinical activities as a provider of culturally sensitive, evidence-based nursing care.

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## NUR3694: Parish Nursing

Prerequisites: Admission to the Nursing Program and completion of the first semester of course work or current licensure as a Registered Nurse. This course provides a foundation for participation in the role of parish nurse. Content is based on the approved curriculum sponsored by the International Parish Nurse Resource Center.

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## NUR3816: Professional Nursing Concepts

Prerequisites: NUR 3065L, NUR 3619, NUR 3619L, NUR 3066L, NUR 3028L Corequisites: NUR 3225, NUR 3235L, NUR 3536 This course includes information on the profession of nursing and introduces the student to the heritage of nursing. The focus is on philosophical, theoretical, and ethical bases of professional nursing practice. Principles of leadership and management are explored. The emphasis is on multi-faceted dimensions of nursing as a vital component of health care.

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## NUR3825: Socialization to Professional Nursing

Prerequisite: Admission to the nursing program. Corequisites: NUR 3065L, NUR 3619, NUR 3166, NUR 3026L, NUR 3118L. This course includes information on the profession of nursing and introduces the student to the heritage of nursing. The focus is on the contemporary image of the nursing profession in its varied roles within the health care system. The philosophical and theoretical bases of nursing as a profession are explored. The emphasis is on nursing as a vital component of health care and on initial socializing of students into the professional role.

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## NUR3949: Experiential Studies in Nursing

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Prerequisite: Acceptance in cooperative education program. Students will participate in supervised work experiences related to their areas of interest. Students may repeat this course for credit, up to a total of six (6) semester hours.

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## NUR4168: Nursing Science III

Prerequisite: NUR 3167 This course includes information required to begin to bridge the research-practice gap. The focus is on the use of systematic reviews and guidelines for
evidence-based practice. Emphasis is on the role of the nurse in creating environments that support evidence-based nursing practice. This is a Pass-Fail course.

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## NUR4178: Alternative Healing

Prerequisite: At least a junior level student and an interest in health care. This course introduces the student to various multi-ethnic alternative medicine theories and interventions. The goal is to provide them with knowledge and experience of mind/body self-healing skills that can be integrated into their healthcare education. The course examines the philosophies of complementary and alternative medicine through the applications of critical thinking using basic understanding of the functions of the human body. The class is appropriate for all majors.

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## NUR4351C: Pediatric Nursing Concepts and Practice

Prerequisite: NUR 3167 and NUR 3255C and NUR 4826
Co-requisite: NUR 4827 and NUR 4168 and NUR 4491C
Description: This course includes information on factors that affect the optimal health and well being of children. The focus of this course is the use of the nursing process in collaborative partnership with children. Emphasis is on professional nursing roles and responsibilities in designing and managing culturally sensitive care for children in order to maintain, restore, and optimize their level of functioning. The learner will participate in clinical activities as a provider of culturally sensitive, evidence-based nursing care.

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## NUR4352: Concepts of Pediatric Nursing

Prerequisite: NUR 3225 and NUR 3235L and NUR 3816 and NUR 3532 and NUR 3229 Co-requisite: NUR 3167 and NUR 4636 and NUR 4466L and NUR 4828 and NUR 4492 Description: This course includes information on factors that affect the optimal health and well being of children. The focus of this course is the use of the nursing process in collaborative partnership with children. Emphasis is on professional nursing roles and responsibilities in designing and managing culturally sensitive care for children in order to maintain, restore, and optimize their level of functioning. The learner will participate in clinical activities as a provider of culturally sensitive, evidence-based nursing care.

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## NUR4465: Women's Health and Pediatric Nursing

Prerequisite: NUR 3255. Corequisite:NUR 4465 L This course includes information on factors that affect the optimal health and well being of women and children. The focus is on the use of the nursing process in collaborative partnership with women across the lifespan and with children. Emphasis is on professional nursing roles and responsibilities in designing and managing culturally sensitive care for women and children in order to maintain, restore, and optimize their level of functioning.

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## NUR4465C: Women's Health and Pediatric Nursing Concepts/Practice

Prerequisite: NUR3167, NUR 3255C This course includes information on factors that affect the optimal health and well being of women and children. The focus of this course is the use of the nursing process in collaborative partnership with women across the lifespan and with children. Emphasis is on professional nursing roles and responsibilities in designing and
managing culturally sensitive care for women and children in order to maintain, restore, and optimize their level of functioning. The learner will participate in clinical activities as a provider of culturally sensitive, evidence-based nursing care.

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## NUR4466L: Clinical Practicum III

Prerequisites: NUR 3235 L. Corequisites: NUR 4465, NUR 4636, NUR 4828. This course provides the opportunity to use knowledge and skills in nursing care in a variety of environments of care. The focus is on the use of the nursing process in collaborative partnerships with individuals, families, and communities. The learner will participate in clinical activities as a provider of culturally sensitive, evidence-based care to women and children with nursing needs. The learner will also participate in clinical activities as a provider, designer and manager of care with communities and populations. (A laboratory fee of $\$ 15$ will be assessed.)

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## NUR4491C: Maternity and Women's Health Nursing Concepts and Practice

Prerequisite: NUR 3167 and NUR 4826 and NUR 3255C
Co-requisite: NUR 4827 and NUR 4168 and NUR 4351C
Description: This course includes information on factors that affect the optimal health and well being of women. The focus of this course is the use of the nursing process in collaborative partnership with women across the lifespan. Emphasis is on professional nursing roles and responsibilities in designing and managing culturally sensitive care for women in order to maintain, restore, and optimize their level of functioning. The learner will participate in clinical activities as a provider of culturally sensitive, evidence-based nursing care.

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## NUR4492: Concepts of Maternity and Women's Health Nursing

Prerequisite: NUR 3225 and NUR 3235L and NUR 3816 and NUR 3532 and NUR 3229 Co-requisite: NUR 3167 and NUR 4636 and NUR 4466L and NUR 4828 and NUR 4352 Description: This course includes information on factors that affect the optimal health and well being of women. The focus of this course is the use of the nursing process in collaborative partnership with women across the lifespan. Emphasis is on professional nursing roles and responsibilities in designing and managing culturally sensitive care for women in order to maintain, restore, and optimize their level of functioning. The learner will participate in clinical activities as a provider of culturally sensitive, evidence-based nursing care.

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## NUR4636: Community Partnerships

Prerequisites: NUR 3225, NUR 3536, NUR 3235L Co-requisites: NUR 3167, NUR 4465, NUR 4466L, NUR 4828 This course includes information on the importance of partnerships in promoting community health. The focus is on collaborative planning, implementation, and evaluation of culturally sensitive, evidence-based health promotion and prevention interventions with individuals and populations.

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promotion and prevention interventions with individuals and populations. The learner will participate in clinical activities as a provider, designer and manager of care with communities and populations.

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## NUR4636L: Community Nursing Practice

Prerequisite: NUR 3167, NUR 4826, NUR 4827, NUR 3082, and NUR 3082L
Co-requisite: NUR 4168, NUR 4636, NUR 4945L, and NUR 4945
Description: Students use evidence and theories from a variety of disciplines in the provision of culturally sensitive care and the improvement of nursing practice in the community setting.

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## NUR4826: Applied Nursing Ethics

Prerequisite/Corequisite: NUR 3167. RNs:None. This course includes information required for examination of professional values and ethical decision-making in clinical practice. The focus is on values clarification, ethical theory, ethical decision-making models, and professional ethical standards. Emphasis is on ethical obligations of professional nurses in their roles as citizens, members of a profession, providers of care, and designers and managers of care.

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## NUR4827: Leadership and Management in Nursing

Prelicensure Prerequisite: Prerequisite: NUR 3167. Pre/Corequisite: NUR 4826. RNs:None. This course includes information required to understand leadership and management as integral components of the role of the professional nurse in the health care setting. The focus is on leadership and management concepts useful to the individual through the organizational level. Emphasis is on developing collaborative and interpersonal skills essential in the design, delegation, and management of care.

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## NUR4828: Role Transition

Prerequisite: NUR 3225 and NUR 3235L and NUR 3816 and NUR 3532 and NUR 3229
Co-requisite: NUR 3167 and NUR 4636 and NUR 4466L and NUR 4492 and NUR 4352
Description: During this course the student demonstrates achievement of program objectives while working in partnership with individuals, families, communities and other health care professionals. This course includes information required for transition from the baccalaureate student role to the role of a professional baccalaureate prepared nurse. The focus is on skills used by the nurse to excel as a clinician, professional leader, communicator and as a citizen. Students use evidence and theories from a variety of disciplines in the provision of culturally sensitive care and the improvement of nursing practice. In addition, the student demonstrates competence in a simulation experience and comprehension of nursing concepts through case study activities. The pre-requisities are:NUR 3225 Adult Health Nursing, NUR 3235L Clinical Practicum II, NUR 3816 Professional Nursing Concepts and NUR 3532 Concepts of Psychiatric and Mental Health Nursing. The co-requisities are: NUR 3167 Nursing Science II, NUR 4636 Community Partnerships, Clinical Practicum III, and NUR 4492 Concepts of Maternity and Women's Health Nursing.

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NUR4905: Senior Problems v. 1-

Prerequisite: Senior standing and permission of instructor. Independent study on selected clinical problems. May be repeated for 9 credits.
NUR4917: Honors Researchv. 1-

Prerequisites: NUR 4165 and admission to the Honors Program in the College of Health. This course provides a vehicle for upper division nursing students to work closely with a faculty member on a research utilization or faculty research project. Students must enroll for 3 hours TOTAL credit over one or more semesters. May be repeated for a total of 9 credits.

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## NUR4935: Special Topics in Nursing

Nursing electives on varying topics. May be repeated for a total of 15 credits with a change of course content.

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## NUR4945: Professional Integration

Prerequisite: NUR 3167, NUR 4826, NUR 4827, NUR 3082, and NUR 3082L Co-requisite: NUR 4168, NUR 4636, NUR 4945L, and NUR 4636L Description: During this course the student demonstrates achievement of program objectives while working in partnership with individuals, families, communities and other health care professionals. This course includes information required for transition from the baccalaureate student role to the role of a professional baccalaureate prepared nurse. The focus is on skills used by the nurse to excel as a clinician, professional leader, communicator, and as a citizen.

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NUR4945C: Professional Nursing Integration

Prerequisite: NUR 4827 and NUR 4168 and NUR 4351C and NUR 4491C
Co-requisite: NUR 4636C
Description: During this course the student demonstrates achievement of program objectives while working in partnership with individuals, families, communities and other health care professionals. This course includes information required for transition from the baccalaureate student role to the role of a professional baccalaureate prepared nurse. The focus is on skills used by the nurse to excel as a clinician, professional leader, communicator and as a citizen. Students use evidence and theories from a variety of disciplines in the provision of culturally sensitive care and the improvement of nursing practice. In addition, the student demonstrates competence in a simulation experience and comprehension of nursing concepts through case study activities.

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## NUR4945L: Directed Clinical Study

Prerequisite: Must be taken in the semester in which the student intends to graduate. During this course the student demonstrates achievement of program objectives while working in partnership with individuals, families, communities and other health care professionals. Students use evidence and theories from a variety of disciplines in the provision of culturally sensitive care and the improvement of nursing practice. (A laboratory fee of $\$ 15$ will be assessed.)

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## Undergraduate Courses

## Public Health

## Course Descriptions:

## DIE4940: Nutrition and Diet Field Experience <br> v. 3-

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This course provides supervised field experience in nutrition and dietetics. Experiences are modeled after the Commission on Accreditation of Dietetic Education foundation skills and knowledge.

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GEY3004: Aging in America

Description: This course is designed to provide a comprehensive overview of the social, economic, cultural, and demographic issues impacting aging in contemporary America. An interdisciplinary focus will be utilized in examining these issues and major trends in gerontology.

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GEY3250: Aging, Health and Technology

Description: This course is designed to encourage exploration of technologies which support community-based seniors and caregivers in maintaining health and independence.

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## GEY3503: Assisted Living Facility Administration

Description: This course provides the core curriculum required by the state of Florida for all individuals managing assisted living facilities while exploring the historical and policy factors impacting development of supportive, healthy living environments for seniors.

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GEY4612: Aging and Mental Health

Description: This course is a review of the psychological, social and biological aspects of aging as they relate to mental health. It will explore an integrated approach between various biopsychosocial processes and etiological factors associated with psychological changes in the elderly. An emphasis will be placed on various strategies, therapies and services which may be directed at improving the mental health of the elderly.

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Description: This course addresses racial/ethnic, gender, socioeconomic, cultural and religious differences that define the elder population and impact delivery of health services. It will investigate recent research on the impact of diversity and inclusion with aging populations.

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## GEY4631: Aging, Employment, and Consumerism

Description: This course will explore topics related to the aging of the workforce and consumerism in a growing senior population.

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HSA2530: The Language of Healthcare

Description: The course will provide a basic introduction to medical terminology and the many terms and acronyms common in usage related to clinical, administrative and regulatory activity within the healthcare field.

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HSA3109: Foundations of Managed Care
An examination of managed care as it applies to health and hospital services. Basic managed health care concepts will be emphasized.

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HSA3111: Introduction to Health Administration
A study of behavioral, organizational and situational factors affecting the management role in health delivery settings and strategies for analyzing problems and implementing changes. Emphasis on management strategies and techniques as applicable to professionals working in the health setting.

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HSA3113: Consumer Issues in Healthcare

Description: This course examines healthcare consumerism and resulting consumer-focused initiatives. Topics covered include online health care resources, the role of special interest groups, consumer advocacy and other related issues.

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HSA3154: Aging Policy and Politics
This course will introduce students to aging policy at the federal, state and local level. Topics covered will include major landmarks in development of public policy for aging and the influence of seniors and senior organizations on the political process.

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Principles and methods of marketing health care services with emphasis on newly developing health care services. Considers roles of professions, governing bodies, organization administration and consumers.

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## HSA3191: Health Information Systems I

Examination of health information systems with focus on system technology, hardware configurations and the nature and characteristics of information systems in health care settings. Various applications for information systems in the health care delivery system will be emphasized as well as their potential benefits.

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## HSA3210: Long Term Care Administration

This course provides an introduction to the organization, financing, and management of the institutional and community based health care and social services that make up the long-term care delivery system.

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HSA3340: Healthcare Human Resources
This course introduces students to the management and development of personnel within numerous public and private healthcare settings. The course will introduce students to the key functions of human resources, the legal and regulatory aspects of human resources management and the current human resources challenges faced by healthcare organizations.

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## HSA3383: Quality Management in Healthcare

This course is designed to acquaint the student with quality management concepts, tools and techniques used in health services industry and the application of quality management theory to health care product and service outcomes.

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HSA3522: Managerial Epidemiology

Description: This course will provide a focused look at how epidemiology and the study of population health and the mechanisms by which health is measured, studied, and evaluated can be applied to health care and public health management.

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HSA3750: Evaluation of Health Programs
Focuses on determining the relative worth of organized programs and services in the health care industry. Examines the various evaluative models including behavioral, systems, decision making, case study and accreditation. Study of needs assessment, formative and summative evaluation is also studied.

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Description: This course is taken in preparation for the health administration internship. Students will participate in structured activities that prepare them to demonstrate skills needed to successfully secure an internship site and complete administrative assignments and projects within the health care workplace.

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## HSA4111: U.S. Health Care System

An overview of the organization and delivery mechanisms in the U.S. health care system. Various settings for the delivery of health care and personnel and financial resources integral to the delivery of care are presented. Course also includes the historical development and future growth and direction of the system.

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## HSA4150: Introduction to Health Policy

This course is an introduction to health policy. It will focus on how U.S. health policy is developed and will provide students with a general understanding of the policymaking process and debates related to major U.S. health care legislation.

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HSA4170: Health Care Finance
Prerequisites: ACG 2021 This course focuses on the economic impact of fiscal policies in healthcare organizations. Methods of analyzing financial reports and the fiscal components of the budgetary process will be covered. In addition, the relationship of the economic environment and health care costs and their implications for health care organizations will be explored.

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## HSA4553: Health Law and Ethics

The principles and rules of law and how they relate to health care organizations and the ethical issues of consumers and providers of health care. The course also focuses on ethics and its principles and application in service settings. Contemporary issues confronting those delivering and using health care will be examined.

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HSA4850: Health Administration Internship
Prerequisite: ACG 2021, ACG 2071, ECO 2023, STA 2023, CGS 1100, and HSA 4170 Co-requisite: HSA 4004
Description: The health administration internship provides the student with the opportunity to gain practical experience and integrate classroom knowledge and theory in an administrative setting within the health care industry.

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HSA4905: Independent Study
Prerequisites: Permission of supervising faculty and Department Chair. Students will complete a specialized study or research project on a health administration topic under direction of program faculty. This course may be repeated once for an additional 3 credits.

Prerequisite: HSA 4170, ACG 2021, ACG 2071, ECO 2023, STA 2023, and CGS 1100
Co-requisite: HSA 4004
Description: This capstone course is designed to enable students to integrate knowledge and skills derived from prior coursework as they address current management issues for health services organizations.

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HSA4930: Special Topics in Advanced Health Care

## Administration

Administrative and financial issues faced by hospitals, ambulatory care settings, various forms of alternative health delivery systems, and the long-term care industry. Recent federal and state legislation will also be assessed.

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## HSA4938: Seminar on Managed Care

A series of seminars presented by faculty and students on topics of interest in the managed care arena. The seminar will provide a forum for the discussion of topics of interest in managed care operations.

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## HSA4941: Long-Term Care Administration Internship

Prerequisites: HSA 4939, HSC 4563, HSA 3154, GEY 3004, and GEY 3503
Description: The long-term care administration internship provides the student with the opportunity to gain practical experience and integrate classroom knowledge and theory in a skilled nursing facility setting. It is specifically designed to meet the state mandated internship requirements (rule 64B10-16 F.A.C) for admission to the Florida Nursing Home Administrators Licensure Examination.

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HSA4955: Study Abroad Health
This course provides students with the opportunity to study the organization, financing and delivery of health care in other countries. While abroad, students will visit hospitals and health organizations, and meet with local public health officials as they explore cultural and political issues impacting health care. This course may be repeated once for study of a different country for an additional 3 credits.

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## HSC2000: Health Care Careers

This course is designed to assist students in planning and pursuit of their own career goals. Students will be provided with an introduction to the health care industry emphasizing the roles of the various health care professionals. The course investigates the wide variety of health care careers, focusing on the nature of the work, job descriptions, necessary abilities, legal and ethical responsibilities, and education preparation and credentialing. Students will learn how to gain reliable information regarding individual jobs in health care and understand impact of current trends in health care on employment opportunities. An opportunity to interface with health care professionals is provided.

This course examines US health priorities with an emphasis on behavioral and social determinants of health. Material presented will raise levels of awareness and provide information needed to make informed health related choices, encourage attitude change, and develop decision making skills which facilitate healthier lifestyle behaviors.

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## HSC2400: First Aid and Emergency Care

Examination of the emergency care of sports injuries, the recognition of injury mechanisms and the means of injury prevention. Also focuses on emergency first aid in addition to preventive and therapeutic taping.

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## HSC2930: Special Topics

v. 1

3

Study of a topic(s) in the health field. A topic(s) will vary each time the course is offered and will be based on the need to address a current health issue(s) or subject(s) in detail. May be repeated for a total of 6 credits with a change of course content.

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HSC3032: Foundations of Community Health
Prerequisite: PSY 2012 and MAC 1105 and STA 2014 or STA 2023 and CHM 2045 and CHM 2045L and MCB 2010C and BSC 2085C and BSC 2086C
Co-requisite: HSC 2100
Description: The purpose of this course is to introduce students to the community health profession and to provide a foundation for subsequent major courses. Students will become familiar with the responsibilities and competencies of health educators including: assessing, planning, implementing and evaluating health programs; communicating and advocating for health and health education; and serving as a resource person in health education. Students will also learn to access and critically evaluate health related information, and explore health education ethics, philosophies, and theoretical foundations. Student development and professionalism is emphasized.

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## HSC3304: Instructional Methods in Health Education

Prerequisites: HSC 3032, HSC 3713 This course focuses on educating individuals about healthful behaviors and motivating the adoption of a healthy lifestyle in school, community, worksite and other relevant agencies. Methods, techniques and resources used to implement health education programs will be included. The format of this course is an instruction laboratory allowing students to develop, implement and evaluate a variety of methods for delivering health related information to diverse populations.

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HSC3500: Epidemiology
Prerequisite: STA 2014 or STA 2023
Description: A study of the distribution and determinants of health and disease in humans utilizing basic concepts in clinical medicine laboratory science, statistical and data handling methods. The causes of disease will be examined leading to the proposal of potentially effective strategies for prevention and control.

Study of medical terminology and how it relates to the systems of the body. Emphasis placed on the fundamentals of terminology and communication within health related fields.

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## HSC3555: Human Diseases: Pathophysiology, Prevention and Treatment

Prerequisites: BSC 2085C, BSC 2086C This course provides an overview of the etiology, pathophysiology, diagnosis, prevention and treatment of the major human diseases. Both infectious and non-infectious diseases of the human body systems will be presented.

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## HSC3661: Health, Human Relations, and Interpersonal Skills Building

Relationships compose a large part of our existence both personally and professionally. In the health care fields as in any profession, whether relationships begin, continue, or end depends largely on our interpersonal skills. The purpose of this course is to help students develop healthy, effective interpersonal skills in their personal and professional lives. This course provides an overview of the importance and power of interpersonal relationships, the difficulties inherent in cultivating interpersonal relationships, and the skills necessary to effectively develop and maintain professional health and personal relationships. Through didactic instruction and experiential activities student will learn a variety of interpersonal skills and techniques.

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## HSC3713: Planning and Evaluating Health Programs

Prerequisites: HSC 3032, HSC 4730 This course will examine the methods and instruments used to conduct needs assessments, develop complete program plans, and implement evaluations for community health programs. Emphasis will be placed on assessing individual and community needs, the development of logical and sequential program plans based on measurable and appropriate objectives, and procedures to evaluate the effectiveness of health programs. A field experience may be required.

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## HSC3949: Experiential Studies in Health Science

v. 0-

3

Prerequisite: Acceptance in cooperative education program. Students will participate in supervised work experiences related to their areas of interest. Students may repeat this course foe credit, up to a total of six (6) semester hours.

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HSC3990: Exp: Health Sciences
v. 0-

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This course will examine the methods and instruments used to conduct needs assessments, develop complete program plans, and implement evaluations for community health programs. Emphasis will be placed on assessing individual and community needs, the development of logical and sequential program plans based on measurable and appropriate objectives, and
procedures to evaluate the effectiveness of health programs. A field experience may be required.

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HSC4102: Fitness for Health

Description: This course will present concepts and testing skills of physical fitness and health that can be applied in multiple settings. An overview of working with special populations in a fitness setting will be addressed along with general health principles that can be applied to one's client and/or personal health. Differences between physical activity, exercise, and physical fitness will be explored as well as the impact on morbidity and mortality.

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## HSC4133: Sexuality Education

Prerequisite: Must meet senior level status. Corequisites: 9 semester hours of 3-4000 level HSC courses. This course provides an overview of physiological, psychological, and sociological aspects of human sexuality throughout the lifespan including gender, family life, relationships, reproduction sexual behavior, STDs/HIV, safer sex, and sexual coercion. Planning, implementing and evaluating school and community sexuality education programs are included in the course. Policy issues that affect sexuality education are also addressed.

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## HSC4134: Mental and Emotional Health Education

Corequisites: 9 semester hours of 3-4000 level HSC courses. The purpose of this course is to examine educational planning and program implementation involved in facilitating the development and maintenance of mental and emotional health. Communication skills effective for the helping professional are also addressed.

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## HSC4150: Substance Abuse and Violence Prevention

Corequisites: 9 semester hours of 3-4000 level HSC courses. This course is a study of issues related to the prevention continuum, including primary, secondary, and tertiary prevention. Substance use, misuse, abuse, and dependency, as well as violence are addressed. The focus of the course is the application of substance abuse/dependence and violence prevention programs in a variety of settings. A field experience is required.

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## HSC4160: Human Development, Health Behavior and Addiction

Study of the chronological and psychological developmental effects on behavior. A review of social and cultural backgrounds that influence patterns of mental health, substance use and abuse and how addiction and/or mental health problems create dysfunctional behavior socially, physiologically and sexually.

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HSC4181: Alternative Healing
This course examines the philosophy of complementary medicine. An overview of various methodologies effective in complementary medicine will be examined with the goal of understanding how these methodologies can be used to improve one's health.

Description: This course will provide an ecological examination of the relationship between environmental conditions, and human health and safety. Special emphasis will be given to principles, processes, priorities, and current research in the study of environmental problems and their impact on health and disease in human populations.

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HSC4563: Dimensions of Health for the Older Adult
A study of the framework in which healthy aging is viewed from interactional, developmental, phenomenological and structural perspectives with emphasis on health promotion in later life.

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## HSC4579: Women's Health Issues

This course will direct students in exploring health concerns specific to women in the context of women's role in society. The course focuses on major threats to women's health, for example, heart disease, osteoporosis, and breast cancer. Students will explore recent research related to these diseases or conditions which impact women's health and identify how they may play a more proactive role in determining their own health.

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HSC4652: Healthcare Ethics and Cultural Diversity
This course will provide students a comprehensive overview of conventional healthcare ethics and a cross cultural perspective on selected issues. Issues to be discussed include death and dying, reproductive ethics, professional/client relationship, AIDS, biomedical research, genetics and healthcare resources. Methods of instruction include lecture, discussion, media presentations, and internet resources.

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HSC4663: Communicating Prevention Concerns and Resources
Study of communication theory and practice and health specific prevention information. Emphasis will be placed on strategies for fostering communication between healthcare and prevention providers and consumers. A focus will be placed on the prevention professional as a liaison between consumer groups, individuals and providers.

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HSC4730: Research in Community Health
Prerequisites: STA 2014 or STA 2023 This course presents basic research skills in community health. Students will interpret and evaluate contemporary health related research reports, peer reviewed professional articles and other relevant research materials. A major component of this course will be the development of a literature review for an approved health topic.

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STA 2023, CHEM 2045C, MCB 2010C, BSC 2085C, BSC 2086C This course prepares students for the health education/health promotion profession by preparing them for Certified Health Education Specialist (CHES) certification. Students will revise/create a resume, prepare a professional portfolio, practice interviewing techniques, explore various professional paths and review professional ethics and etiquette. Students will secure internship placement from approved prospective sites and create a detailed work plan. This course must be completed the semester immediately prior to HSC 4814.

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HSC4814: Community Health Internship

Prerequisite: Completion of all required program courses The community health internship is the final culminating course providing field experience which allows students to apply the knowledge, skills and abilities acquired during their program coursework. This graded practical experience requires students maintain a workload reflective of a professional in a community health setting. This significant learning opportunity for students is also meant to be a time of service and innovation to the supervising agencies. This course must be completed during the last academic semester of enrollment.

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HSC4900: Readings and Conference

In-depth readings and group discussions and conferences on selected topics of critical issue in the health science field. Student readings will vary each semester and will involve a formal survey of the literature and presentation of a summary analysis of findings.

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## HSC4901: Skill Development in Health Administration

This course is designed to develop and enhance the skills necessary for success as a health care executive through on site study and practice of management in health care settings. Students will concentrate either on long term care or general health care administration. Each student will be expected to complete a major paper as partial satisfaction of course requirements.

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HSC4906: Independent Study and Research
v. 1-

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Prerequisite: Permission of Department Chairperson.
Description: A specific health related research project conducted under the guidance of a faculty advisor.
Repeatability: This course may be repeated for up to 12 credits.
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HSC4910: Honors Research
v. 1-

3
Prerequisites: HSC 4730 and admission to the Honors in the Major track in the College of Health. The course provides a vehicle for students to work closely with a sponsoring faculty member on an individually supervised research project. Students must enroll for three hours total.

## HSC4912: Projects

## v. 1-

3

Development and implementation or participation in conducting a designated project related to health science. Students will work with a faculty person to determine topic and project.

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## HSC4931: Special Topics

A detailed study or a topic in the health science field. Topics will vary each time the course is offered and will be based on the need to address a current health issue or subject in detail. Refer to "Schedule of Courses" or department for further information. May be repeated up to 12 credits with a change in course content.

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HSC4934: Seminar
v. 1-

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Students will attend and present seminars conducted by faculty and other students. The seminars will focus on faculty and student interests and/or current issues in the health field.

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HUN2000: Contemporary Nutrition Issues
Student will identify basic concepts in nutrition, be introduced to eating patterns in the United States, and discuss the relationship of contemporary food and nutrition to current health issues.

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SLS3316: Introduction to the Health Professions
This course will provide the student with an overview of the positions in the health care industry. The course will in addition focus on the development of personal skills required for success in job seeking and retention.

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## Undergraduate Courses

## Accounting and Finance

## Course Descriptions:

## ACG2021: Principles of Financial Accounting

Prerequisite: Sophomore standing and completion of MAC 1105 or equivalent with " C " or better.
Description: This course is a conceptual introduction to financial accounting. In this course, primary emphasis is placed on income measurement and the interpretation of conventional financial statements.
Availability: Offered every semester.
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## ACG2071: Principles of Managerial Accounting

Prerequisite: ACG 2021 and MAC 1105 or equivalents each with a grade of "C" or better. Description: This course is the conceptual introduction to managerial accounting. The material covers accounting for cost reporting and control, reports, statements, and analytical tools used by management.
Availability: Offered every semester.
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ACG3103: Intermediate Accounting Problems and Concepts I
Prerequisite: ACG 2021 with a "C" or better.
Co-requisite: CGS 1100.
Description: The course is a study of accounting principles and assumptions underlying the theories of matching costs and revenues to determine income and financial position. The course stresses asset acquisition, valuation, and allocation. The course encourages a critical evaluation of existing accounting theory and practice.
Availability: Offered every semester.
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ACG3113: Intermediate Accounting Problems and Concepts II
Prerequisite: ACG 3103 with "C" or better.
Description: This course is a continuation of ACG 3103.
Availability: Offered every semester.
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## ACG3123: Intermediate Accounting Problems and Concepts III

Prerequisite: ACG 3113 with "C" or better.
Description: This course is a continuation of ACG 3113 with emphasis on special contemporary problems, FASB pronouncements, and fund accounting.
Availability: Offered every semester.

Prerequisite: ACG 3103 with "C" or better.
Description: This course includes specific accounting methods and techniques applicable to governmental and not-for-profit organizations.
Availability: Offered infrequently.
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## ACG4201: Advanced Accounting

Prerequisite: ACG 3123 with "C" or better.
Description: This course is an in-depth study of consolidated financial statements. Other topics include accounting for foreign operations and international accounting standards.
Availability: Offered infrequently.
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ACG4251: International Accounting
Prerequisite: ACG 3113 with "C" or better
Description: This course is an in-depth study of the major issues and practices in international accounting. Topics include history, environmental influences, the international monetary system, accounting for changes in monetary values, contemporary issues, information disclosure, pricing, international information systems, international auditing standards and professional groups.
Availability: This course is usually offered every summer.
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ACG4361: Cost Accounting
Prerequisite: ACG 2071 and CGS 1100 with "C" or better.
Description: This course includes an analysis of cost data for goods and services for planning, controlling, and decision-making.
Availability: Offered every semester.
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## ACG4381: Controllership

Prerequisite: ACG 4361 with "C" or better
Description: This course studies the duties and responsibilities of the chief accounting officer in a business organization. Topics will include the relationship of the controller to other officers of an organization and the selection and use of accounting data for control and decisionmaking.
Availability: This course is usually offered fall and spring.
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## ACG4401: Accounting Information Systems

Prerequisite: ACG 3103 with "C" or better.
Description: This course includes analysis, design, and implementation of transaction processing cycles and the roles they play in the internal control of the organization.
Availability: Usually offered every semester.
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Prerequisite: ACG 4401 and ACG 4651 or ACG 4671 with "C" or better
Description: This course focuses on how to design effective and efficient systems of internal control, and how to perform audits in an EDP environment. Special emphasis is placed on software, auditing techniques, advanced techniques and computer security.
Availability: This course is offered infrequently.
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#### Abstract

ACG4651: Auditing Prerequisite: ACG 3113 and ACG 4401 with "C" or better. Description: This course includes an examination of the external auditor's professional responsibilities and functions in today's international marketplace. This course addresses audit planning, internal control evaluation, substantive testing, and report generation in detail. Availability: Usually offered every summer.


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## ACG4671: Internal Auditing

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Prerequisite: ACG 3113 and ACG 4401 with "C" or better.
Description: This course is an examination of corporate governance perspectives, managing risk, and internal controls. It examines the internal auditor's role in evaluating and improving the effectiveness of risk management, control, and governance processes. Particular emphasis is placed on the professional standards of internal auditing, audit approaches, managing the internal audit, and planning, performing, and reporting audit work.
Availability: Offered infrequently.
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ACG4682: Forensic Accounting
Prerequisite: ACG 4401 with "C" or better
Description: This course is an examination of the tools and techniques utilized in the investigation of financial fraud. Particular emphasis is placed upon fraudulent financial reporting, litigation support, cybercrime, business valuation, and disaster recovery and reconstruction.
Availability: Usually offered every fall.
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ACG4863: Accounting and Management Control in the Film
Industry 3

Prerequisite: ACG 3103
Description: This course is an exploration of accounting and management control systems for highly creative activities, using the film industry as a model. There is a particular emphasis on the preparation and analysis of film budgets.
Availability: Offered infrequently in the summer.
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ACG4901: Directed Independent Study in Accounting

Prerequisite: ACG 3103 with "C" or better and a UNF GPA of 3.00 or above
Description: This course involves special studies undertaken independently by students under the supervision of an accounting department faculty member. Each student must have the
faculty supervisor and Department Chairperson's approval of a special study prior to enrollment.
Repeatability: This course may be repeated with change of content up to a maximum of 6 credits.

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## ACG4931: Special Topics in Accounting

v. 1-

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Prerequisite: ACG 2071 with a "C" or better and permission of the advisor or department chair

Description: This course is a study of special topics not offered in other departmental courses. Repeatability: This course may be repeated with change of content up to a maximum of 9 credits.

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## ACG4941: Accounting Internship <br> v. 1-

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Prerequisite: ACG 3103 with "C" or better and a UNF GPA of 3.00 or above.
Description: Significant accounting work experience with a cooperating accounting business, governmental, or civic organization is required in this course. Credit depends upon length of internship. Prior approval of advisor and department chair is required. Grading is on a pass/fail basis. See www.unf.edu/coggin for detailed internship guidelines.

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ACG4944: Small Business Counseling
Prerequisite: ACG 3103 with a "C" or better and permission of the instructor and the department chair
Description: This course is a practicum in providing assistance to small businesses with accounting problems.

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## ACG4956: Study Abroad in Accounting

Prerequisite: Permission of the instructor
Description: In this course students will study a country's business practices with a particular emphasis on accounting. During this course the student will: understand the culture, geography, history, and politics of the country; travel to the country; study the difference between business in the U.S. and business in that country; and learn about the current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip work.
Repeatability: This course may be repeated up to 9 credits

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FIN3140: Personal Finance

Description: This course is a survey of the problems and techniques of personal, financial planning. It includes: consumer credit, insurance, taxes, home ownership, personal investment, managing cash income, controlling expenditures and estate planning. This course may not be taken for credit by students majoring in financial services or finance.

Prerequisite: ECO 2013, FIN 3403
Description: This course presents financial markets theory and applies it to the mechanisms of financial markets and institutions. Themes include the supply of and demand for loanable funds; interest rate theory and determination; money and capital markets; and monetary, fiscal and debt management policies by various types of financial institutions.

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## FIN3403: Financial Management

Prerequisite: ACG 2071, STA 2023, ECO 2023 with "C" or better
Description: This course focuses on management techniques for and considerations in determining short-term, intermediate-term, and long-term financial needs. Sources of funds available to management and the relevant financial instruments will be examined.

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FIN4126: Seminar in Financial Planning
Prerequisite: FIN 4504 and REE 4043
Description: This course is designed to study current issues in financial planning through case analysis and discussions.
Availability: This course is usually offered in the spring only.
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FIN4128: Financial Planning Process and Development
Prerequisite: FIN 4504, TAX 3721 or TAX 3001, and RMI 4135
Co-requisite: RMI 3011 and FIN 4132
Description: This course examines professional issues in financial planning, including: ethical considerations; regulation and certification requirements; written and oral communication skills; and professional responsibility. Students are expected to use skills obtained in other financial planning courses and perhaps work experiences in the completion of a comprehensive personal financial planning case, other mini-case studies, and calculation templates.

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## FIN4132: Estate Planning

Prerequisite: TAX 3721
Description: This course focuses on the fundamentals of estate planning, including the social and family implications of federal/state taxation of transfers of wealth by gift or at death. Trusts, guardianships and post mortem planning are covered in this course. How planning is affected by business assets, employee benefits, and insurance will also be studied. Availability: This course is offered only in the spring term.

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FIN4414: Financial Management II
Prerequisite: FIN 3403 with "C" or better
Description: This course involves the examination of advanced topics in financial management of the profit-making firm. Topics covered include: determination of funds, cost of capital, and capital-structure planning. Case discussion is used in addition to readings and problems.

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Prerequisite: Permission of the instructor is required.
Description: This course will teach the user intense Microsoft Excel-based financial modeling. While we start with some basic functions, the course involves very advanced finance from other finance courses. Therefore, an understanding of basic corporate finance, investment, and derivatives theories is assumed and not the focus of this course. Rather, the focus in this course is on teaching the user how to model a particular financial theorem in Microsoft Excel. For example, you will learn how to estimate betas and the security market line in Microsoft Excel, but an understanding of the topic is assumed.

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## FIN4461: Financial Statement Analysis

Prerequisite: FIN 3403
Description: This course is an in-depth analysis of financial statements, and of the basis which underlie their preparation. It presents a thorough understanding of the process of income determination and of asset and liability measurement, as well as the distortions to which these may be subject.

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FIN4504: Investments
Prerequisite: FIN 3403 with "C" or better
Description: This course focuses on the principles and practices of investments. The factors influencing security values are covered in this course.

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FIN4514: Securities Analysis and Portfolio Management
Prerequisite: FIN 4504
Description: This course is an examination of the theoretical framework, analytical tools, and decision-making skills required for analysis and selection of investments. Portfolio selection, management, and performance evaluation are also considered.

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FIN4533: Derivatives
Prerequisite: FIN 4504
Description: This course introduces students to the theoretical and practical aspects of the markets for financial futures, options, and other derivatives.
Availability: This course is normally offered in the fall semester only.
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## FIN4556: Behavioral Finance

## Prerequisite: FIN 4504

Description: This course introduces students to the area of behavioral finance, which is a rapidly growing area that deals with the influence of psychology on the behavior of financial practitioners. Behavioral phenomena play an important role in portfolio theory, asset pricing, corporate finance, and the pricing of derivative financial instruments. This course covers behavioral biases, violations of the EMH and market prediction, individual and institutional investor behavior, and corporate finance.
Availability: This course is normally offered in the spring semester only.
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## Prerequisite: FIN 4504

Description: This is the first in a sequence of two courses whereby students manage a real portfolio of securities. The students selected for this course establish the security selection criteria, research the prospective investments, generate reports, make decisions to buy or sell, and execute the trades. Administrative responsibilities are assigned and analyst teams are formed. Students accepted into the course must continue to Student Managed Investment Fund II during the next term.
Availability: This course is offered only in the fall.
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## FIN4561: Student Managed Investment Fund II

Prerequisite: FIN 4560
Description: This course is a continuation of Student Managed Investment Fund I. In this course students will continue to evaluate securities; however, more attention is directed at the beginning to position the portfolio for the idle summer months by identifying core holding, and the preparation of the Annual Fund Report.
Availability: This course is offered only in the spring.
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FIN4604: International Finance
Prerequisite: FIN 3403
Description: This course is a comprehensive survey of international finance. It provides a basic understanding of the forces that affect the relative values of currencies, the financial problems associated with international capital markets, and international institutions. Case studies will be used to illustrate specific situations.

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FIN4901: Directed Independent Study Finance
Prerequisite: FIN 3403
Description: This course involves special studies undertaken independently by students under the supervision of a finance faculty member. Students must have the faculty supervisor and Department Chairperson's approval for a special study prior to enrollment. May be repeated with change of content up to a maximum of 6 credits.

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FIN4931: Special Topics in Finance
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Prerequisite: FIN 3403 and permission of the advisor and the department chair
Description: This course involves the study of special topics not offered in other departmental courses.
Repeatability: This course may be repeated with change of content up to a maximum of 6 credits.

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## FIN4941: Finance Internship

business, governmental or civic organization. Credit received depends upon the length of the internship. Grading is on a pass/fail basis.

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FIN4956: Study Abroad in Finance
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Prerequisite: Permission of the instructor
Description: In this course students will study a country's business practices with a particular emphasis on finance. During this course the student will: understand the culture, geography, history, and politics of the country; travel to the country; study the differences between business in the U.S. and business in that country; and learn about the current issues facing that nation. This course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip work.

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## REE4043: Real Estate Analysis

Description: This course is a prerequisite to all other courses in real estate and regional development. This course looks at the decision-making process for development, financing, marketing, and management of real estate within the framework of our government, economic, legal, and social systems.

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## REE4103: Real Estate Appraisal

Prerequisite: REE 4043
Description: This course focuses on the valuation and appraisal framework applied to residential and income-producing property. The emphasis in the course is on valuation theory and process as a tool for business decisions.

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REE4204: Real Estate Finance
Prerequisite: REE 4043
Description: This course focuses on financial analysis and structuring of real estate projects, traditional and creative concepts and mechanisms for construction and permanent financing, portfolio problems, governmental programs, money and mortgage market analysis, computers and financial models.

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## REE4303: Real Estate Finance and Investments

Prerequisite: FIN 3403, REE 4043
Description: This course studies advanced concepts, principles and models of real estate finance and investment analysis. Emphasis in the course is on case analysis and policy information.
Availability: This course is usually offered only in the spring.
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Description: This course involves the investigation of selected problems and topics of current and permanent import in real estate and urban land economics.
Repeatability: This course may be repeated with change of content up to a maximum of 6 credits.

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## RMI3011: Risk Management and Insurance

Description: This course focuses on understanding the importance of risk in the business firm and the family unit; principles underlying the selection of the means of handling economic risk; and the analysis of insurance as one of the techniques of risk management. Availability: This course is usually offered only in the spring.

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## RMI4135: Employee Benefit Plans

Prerequisite: MAN 3025
Description: This course focuses on the study of the group and social insurance that provide death, disability, and retirement benefits. This course also covers the analysis of contractual arrangements, benefit formulas, financing, and underwriting.

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## TAX3001: Federal Income Tax

Prerequisite: ACG 2071 with "C" or better
Description: This course focuses on the federal income tax law as it applies primarily to individuals.

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TAX3011: Income Tax for Corporations and Partnerships
Prerequisite: TAX 3001 with "C" or better and ACG 3103 with a "C" or better Description: This course focuses on the federal income taxation of corporations and partnerships.

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TAX3721: Tax Planning in Financial Decisions
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Prerequisite: ACG 2021 with a " C " or better
Description: This course is designed for those business students interested in a general understanding of the tax law and its implications for the planning and decision-making processes necessary for both individuals and business entities. Accounting majors may not take this course for credit.

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TAX4901: Directed Independent Study in Taxation
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Prerequisite: TAX 3001 with a " C " or better and permission of the instructor and department chairperson
Description: This course involves special studies undertaken independently by students under the supervision of an accounting department faculty member.
Repeatability: This course may be repeated with change of content up to a maximum of 6 credits.

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## Undergraduate Courses

## Management

## Course Descriptions:

## BUL3130: The Legal Environment of Business

Description: This course is an introduction to law as it relates to and impacts upon the operation of business. Consideration is given to the Uniform Commercial Code, antitrust, employment laws, business ethics, international law and the social and political environment in which a business operates.

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## BUL3371: Real Estate Law

Prerequisite: REE 4043 and BUL 3130 each with a "C" or better.
Description: This course demonstrates a survey of legal principles affecting the operation of today's real estate industry. Topics include real estate brokerage, conveyance, mortgages, leases, zoning, building codes, liens, and pollution control.

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## BUL4350: Business Law II

Prerequisite: BUL 3130 with a " C " or better.
Description: This course covers advanced work in business law. It is intended primarily for students preparing for professional certification in areas such as accounting and real estate.

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BUL4905: Directed Individual Studies in Business Law

Prerequisite: BUL 3130 or equivalent and approval of department chair.
Description: This course allows students to investigate selected topics in business law.
Repeatability: This course may be repeated with a change in content up to a maximum of six credits.

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## GEB1011: Foundations of Business

Description: This course is a basic overview of the functional areas of business providing a general framework for understanding the development, structure, and social responsibility of business as it applies to the American and international economies. Emphasis is placed on the interaction of management, marketing, transportation, finance, accounting and insurance within the business environment.

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Description: This class provides both business and non-business majors with hands-on skills necessary to succeed as an entrepreneur. The curriculum provides a balance between individual work and team projects. Students will apply practical skills to develop a business plan for a new venture.

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## GEB2956: CD- Study Abroad in Business

Prerequisite: Permission of the instructor.
Co-requisite: Students must take a Foreign Language course and introduction to Global Business (MAN 2652) during the same term as the study abroad course.
Description: Students will study a country's general business practices. During this course, the student will: understand the culture, geography, history, and politics of the country; travel to the country; study the differences between business in the U.S. and business in that country; and learn about the current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip work.

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## GEB3124: Students in Free Enterprise Professional Development Program

Prerequisite: MAN 3025
Description: The purpose of this course is to provide students with the best opportunity to develop leadership, teamwork, and communication skills through learning, practicing, and teaching principles of free enterprise. This is accomplished through outreach projects in the community. Students will have the opportunity to assist young entrepreneurs in their business venture.

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GEB3132: Family Business Management
Prerequisite: MAN 3025
Description: This course examines the unique challenges and practices of family-owned businesses. Topics include planning for a firm's growth and continuity, dynamics of family interactions, conflict resolution in a family firm, preparing the next generation for entry into and management of family firms, and succession strategies. Since family-owned or controlled business comprise close to $90 \%$ of businesses worldwide, students would benefit from understanding the dynamics of family business as they may work for a family-owned business, plan on entering a professional field where their clientele may include family businesses or plan to bring family into their own business.

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Prerequisite: MAN 3025 and MAR 3023
Description: This course focuses on the practical application of key marketing concepts and methods specifically relevant to entrepreneurial ventures. Students will study and discuss cases focusing on the marketing survival strategies of successful entrepreneurs and learn about the marketing challenges of entrepreneurial ventures from assigned readings, class discussions, and guest speakers. Each class session will cover components of the marketing plan for an entrepreneurial venture, making comparisons on how the strategies differ from traditional marketing in corporate America. A major project required in the course is the development of marketing inventions for actual entrepreneurial ventures. Students will also
review books and publications covering current entrepreneurial strategies and present key issues to the class.

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## GEB3361: International Business Internship <br> v. 1- <br> 20 <br> Description: This course involves field practice at designated businesses or government agencies significantly involved in international business operations, research or marketing. Grading is on a pass/fail basis. <br> Repeatability: The course is repeatable for credit. This course can be taken from between 1-20 credit hours based on the requirements of the individual program. Instructor permission is required. <br> Back to Top

## GEB3949: Experiential Studies in Business <br> v. 0 -

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Prerequisite: Acceptance in the cooperative education program
Description: Students will participate in supervised work experiences related to their areas of interest.
Repeatability: This course may be repeated for credit, up to a total of six (6) semester hours.
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## GEB4104: Small Business Consulting

Prerequisite: MAN 3025 and MAR 3023 and FIN 3403
Description: Student consulting teams work with local entrepreneurial clients that are facing business challenges. Students will define the specific problem areas, gather and evaluate relevant data, and recommend and implement solutions pertaining to the challenges in specific small businesses. Under close supervision the teams will develop a comprehensive consulting report which will include their analysis and recommendations to the client.

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## GEB4113: Entrepreneurship

Prerequisite: MAN 3025 and MAR 3023 and FIN 3403
Description: In this course students will examine the concepts and issues of creating new ventures and challenges of managing their growth through assigned readings, case analyses of business ventures, and entrepreneurs as guest speakers. Student teams will research a business opportunity and develop and present a business plan for the new venture.

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## GEB4910: G(W) Honors Research in Business Administration

Prerequisite: Acceptance to the Honors in the Major track in business administration.
Description: This course allows students to perform research in an area of interest.
Availability: This course is repeatable up to 6 hours.
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Description: This course provides a discussion of the process of international business to include: economics, cultural, financial, and legal factors that, together with governmental assistance, allow multinationals of various nations to conduct trade activities across national boundaries.

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# GEB4942: Entrepreneurial Internship 3 <br> Prerequisite: GEB 4113, permission of instructor <br> Description: This course provides internships as an opportunity for entrepreneurship students to utilize the knowledge they have learned in the classroom and to gain real experience in an entrepreneurial business. Students will have the opportunity to observe business practices of successful entrepreneurs, to experience the challenges of operating a business, and to recognize the knowledge, skills, and abilities necessary to be a successful entrepreneur. 

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## GEB4956: Study Abroad in Business

Prerequisite: Permission of the instructor. Students will study a country's business practices, with a particular emphasis on business. During this course, the student will: understand the culture, geography, history, and politics of the country; travel to the country; study the differences between business in the US and business in that country; and learn about the current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip work.

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## ISM4011: Introduction to Management Information Systems

Prerequisite: MAN 3025 and CGS 1100
Description: This course will cover the fundamentals of management information systems with an emphasis on the relationships of MIS and data processing to decision-making in modern organizations.

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MAN2652: Introduction to Global Business

Description: This course provides an overview of the environment under which global business operates. Emphasis is placed on developing an understanding of the key issues involving: the key environmental factors impacting global business management and operations.

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MAN3025: Administrative Management
Prerequisite: (recommended) SOP 3004
Description: This course covers fundamentals of management which permeate organizations; including introductory studies of administrative structure, the organizational environment, and managerial functions and processes.

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Description: This course provides an overview of methods and tools for planning and controlling the production and distribution of goods and services. Topics include: forecasting, production planning, inventory management, and other functions necessary to properly allocate, evaluate and manage resources in the supply chain processes. Managers in both manufacturing and service inter-organizational systems need to understand these topics in order to increase firm value by reducing costs and required assets while at the same time maintaining or increasing output, quality and customer service.

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## MAN4064: Organizational Ethics: A Global Perspective

Prerequisite: MAN 3025 or permission of the instructor
Description: This course provides a thorough grounding in the principles of ethics as applied to the business firm and other organizations, the economic system of the United States and international business. It presents a summary of the field of ethics as well as an in-depth consideration of the ethics of global economic activity.

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## MAN4082: E-Business Strategy

Prerequisite: MAN 3025, ISM 4011
Description: This course examines various e-business strategy models that use computer networks to improve organizational performance, including all aspects of an organization's electronic interactions with its stakeholders.

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MAN4143: Effective Business Leadership
Prerequisite: MAN 3025
Description: This course seeks to challenge the student to develop personal leadership skills and to help students to become a better leader in the world of practical business and have a positive impact on society. Each class will consist of one or more of the following: Lecture, current topics discussion, role playing exercises, presentations and case analysis.

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## MAN4201: Organization Theory

Prerequisite: MAN 3025
Description: This course provides an understanding of the structure of different organizations and examines where they fit in dynamic environments. A few of the topics include: organizational structure, strategy, environment, decision-making, technology, change and culture. This course gives students a theoretical foundation of organizational principles while providing a macro view of the relationship between an organization and its environment.

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## MAN4240: Organizational Behavior

Prerequisites: MAN 3025 This course examines people in organizations from both an individual and a group perspective. A few of the topics include motivation, leadership, personality, attitudes, values, stress, and politics. Students will gain a greater understanding of human behavior in organizations and how this unpredictable phenomenon impacts organizational practices.

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## Prerequisite: MAN 3025

Description: This course reviews various human resource subjects and programs. The topics include: equal employment opportunity, organization culture, job analysis, human resource planning, recruitment, selection, performance appraisal, training/development, compensation/incentives, discipline and grievance procedures. Both line managers and HR specialists need to grasp these subjects, so they can better analyze situations, select suitable situational programs, measure outcomes and revise when necessary.

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## MAN4335: Employee Benefits

## Prerequisite: MAN 3025

Description: This course is an in-depth study of both wage and non-wage related benefits made available to employees by the firm and various related social and governmental programs.

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## MAN4401: Labor Relations

Prerequisite: MAN 3025
Description: This course provides an overview of union-management relations. The topics include: labor history, labor law, union organizing, collective bargaining, impasse procedures, discipline, grievance procedures, fractional bargaining, grievance arbitration, and labormanagement cooperation programs. Both line managers and HR specialists need to grasp these subjects, so they can more effectively handle conflicts and foster greater cooperation with regard to handling wages, hours and working conditions.

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## MAN4441: Negotiations

Prerequisite: MAN 3025
Description: This course is a broad based examination of negotiation and includes theory based on studies of collective bargaining between labor and management. Emphasis is placed on experiential exercises and on improving interpersonal skills. Active participation in the learning process is expected.

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## MAN4520: Trends in Process Management and Quality

## Prerequisite: MAN 3504

Description: This course examines how organizations can develop excellence in, and excellence through, continuously improving process management and quality. The course examines and analyzes various process management techniques and quality improvement initiatives, and focuses on how both manufacturing and service firms can translate these activities into value and competitive advantage. This course is recommended for students from all functional areas of business, but particularly those interested in careers in management, operations management, quality management, supply chain management, and management consulting.

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used to aid managerial decision making. It includes sections on decision theory, integer and linear programming, simple and multiple regression and correlation, analysis of variance, simulation and network models. A specific software package is used for problem solution.

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## MAN4583: Project Management

## Prerequisite: ISM 4011, MAN 3504

Description: This course is intended to demonstrate appropriate project management techniques that may be applied to all functional areas of a business such as marketing projects, human resource projects, logistics management projects, or information technology projects.

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## MAN4600: International Management

Prerequisite: MAN 3025 or permission of the instructor
Description: This course is an intensive analysis of the process, practice, and theory of international business; financial accounting, marketing, and legal aspects of multinational business operations; governmental assistance to international business; cultural environment of international business to include factors such as language, religion, values and attitudes, law, education, politics, technology, and social organization.

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## MAN4701: Business and Society

Prerequisite: MAN 3025
Description: This course examines the relationship between business firms and other elements of society such as the individual in the organization, the community, the ecology, the consumer, and the government.

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## MAN4720: Strategic Management and Business Policy

Prerequisite: MAR 3023 or equivalent, FIN 3403 or equivalent, and MAN 3025 or equivalent and at least a 2.0 GPA
Description: This course demonstrates an analysis of how functions such as sales, finance, procurement, distribution and personnel are correlated to form an integrated business policy and how corporate strategy is formulated, implemented and evaluated. This course is taken in a student's final term at UNF.

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## MAN4905: Directed Individual Study in Management

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Prerequisite: Permission of the instructor
Description: This course allows students to investigate special topics in management, particularly topics of local or regional interest.
Repeatability: This course may be repeated with change of content up to a maximum of 6 credits.

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Prerequisite: Permission of instructor, minimum UNF GPA of 3.5
Description: This course is a study of special topics not offered in other courses in the department.
Repeatability: This course may be repeated with change of content up to a maximum of 9 credits.

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## MAN4940: Human Resource Management Internship

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Prerequisite: MAN 3025, MAN 4301 and prior approval of the department chair, associate dean and internship coordinator
Description: This internship is designed to provide the student with significant experience in human resource management with a cooperating business or governmental organization. This course is offered on a pass/fail basis.

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## MAN4942: Management Internship

Prerequisite: MAN 3025 and MAN 3504
Description: This internship is designed to provide the student with significant experience in organizational management. The internship provides the student with an opportunity to apply their educational background to management issues confronted by cooperating firms.

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## MAN4956: Study Abroad in Management

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Prerequisite: Permission of the instructor
Description: In this course students will study a country's business practices, with a particular emphasis on management. During this course students will: understand the culture, geography, history, and politics of the country; travel to the country; study the differences between business in the U.S. and business in that country; and learn about the current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip work.

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## Undergraduate Courses

## Economics

## Course Descriptions:

## ECO2000: Economics for Teachers

Designed for social studies teachers and teachers of grade K-12. Analysis of the operation of our modern economy, emphasizing the competencies and skill required for teacher certification in Florida and to meet the Sunshine State Standards. The objective of the course is to provide you with a basic understanding of how our economy functions. When you complete the course you will be able to integrate economics into all areas of social studies as well as any other disciplines you may be teaching. We will also look at alternatives to the market as well as the fundamentals of consumer economics. This course cannot be taken by any College of Business Administration majors or by Economics majors in Arts and Sciences.

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## ECO2013: Principles of Macroeconomics

Introduction to the theory of income determination and national income accounting. Analysis of the use of monetary and fiscal policy to accomplish the goals of full employment, economic growth and price stability. Cannot be used to satisfy upper-level requirements for a degree in business administration and economics. Normally offered each term.

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## ECO2023: Principles of Microeconomics

Introduction to the market system, market structures, and the theory of production, demand theory and general equilibrium. Cannot be used to satisfy upper-level requirements for a degree in business administration and economics. Normally offered each term.

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ECO3101: Intermediate Microeconomics
Prerequisite: ECO 2023
Description: This course provides an analysis of consumer and business activity in the marketplace price and output determination, allocation of income and product, and problems of market organization.
Availability: This course is normally offered each fall term.
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ECO3203: Intermediate Macroeconomics
Prerequisite: ECO 2013
Co-requisite: ECO 3411 or MAN 4550
Description: This course analyzes aggregate economic activity and growth, focusing on national economic goals and policies for their attainment.
Availability: This course is normally offered every term.

Prerequisite: Introductory statistics. Statistical techniques developed through the use of business and economic problems. Time-series and index number analysis, simple and multiple regression and correlation, analysis of variance, and quality control. This course should be taken as early as possible in the student's upper-level curriculum. Normally offered each term.

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## ECO3421: Econometrics

Prerequisite: ECO 3411, ECO 2013, and ECO 2023. Thi s course provides an introduction to regression analysis with emphasis on the special problems associated with analyzing economic data. Topics include the theory of regression analysis, hypothesis testing, modelbuilding, multicollinearity, heteroscedasticity, autocorrelation, and regression with dichotomous variables. The course emphasizes empirical applications of econometrics. Normally offered every fall.

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## ECO3422: Advanced Topics in Econometrics

Prerequisite: ECO 3421 This course emphasizes econometric theory and advanced econometric applications. Topics will include econometric modeling, time series models, nonstationary data root, AR, MA and VAR models, simultaneous equations models, instrumental variables, 2SLS, models of discrete choice, truncation, censoring, duration models and panel data.

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## ECO3622: American Economic History

Survey of American economic growth and development since 1607. Emphasis on institutional evolution, growth trends, and the determinants of change. Normally offered each spring term.

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## ECO3701: CD - Contemporary International Economic Issues

This core course in the international studies major and minor programs covers basic topics in international economics at an intuitive level, with emphasis on policy. Students will study, in detail, the culture, politics and economy of a foreign country of their choice in order to appreciate the differences between U.S. and foreign cultures, politics and economies. This course is a designated UNF Cultural Diversity Course. Normally offered each spring term.

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ECO3704: International Trade
Prerequisite: ECO 2023. Introduction to international trade theory and practice. Analysis of trade patterns and national policies affecting trade. Normally offered every term.

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offered each fall term.
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ECO4303: History of Economic Thought
Prerequisites: ECO 2013, ECO 2023 or permission of instructor. Analysis of the origins and development of economic thought, including a study of major economists, the school with which they have been linked, and the social background that influenced economic ideas. Normally offered fall term in even-numbered years.

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## ECO4401: Mathematical Economics

Prerequisites: ECO 2013, ECO 2023, ECO 3411 and one semester of college level calculus The course provides the basic mathematical tools needed to understand the behavior of economic agents and to solve economic problems. The course emphasizes critical thinking and problem solving. The major topics we will cover in this class include one-variable and multivariate calculus, comparative static analysis, constrained and unconstrained optimization, integration, uncertainty, and matrix algebra. The course is delivered mainly through class lectures, problem solving and in-class discussions.

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## ECO4504: Public Finance

Prerequisites: ECO 2013, ECO 2023 or permission of instructor. Analysis of public sector's role in the allocation of resources, redistribution of income, and taxation within an international context. Normally offered each fall term.

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ECO4713: The International Monetary System
Prerequisite: ECO 3203. Analysis of the macroeconomic aspects of international trade and investment, foreign exchange markets, exchange rate determination, and the international implications of macroeconomic policies. Normally offered each spring term.

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ECO4903: Directed Independent Study Honors in Economics

Description: Study of special topics under the guidance of faculty members. May be repeated with change of content up to a total of six credits. This is the first course for students who wish to conduct independent research in economics with a faculty member. This course must be completed before the student writes an Honor Thesis.

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## ECO4905: Directed Independent Study

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Prerequisite: Permission of department chair. Study of special topics under the guidance of faculty members. May be repeated with change of content up to a total of 6 credits.

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Prerequisite: Permission of instructor. Study of special topics not offered in other departmental courses. May be repeated with change in content up to a maximum of 9 credits.

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ECO4956: Study Abroad in Economics v. 1-
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Prerequisite: Permission of the instructor. Students will study a country's business practices, with a particular emphasis on economics. During this course, the student will: understand the culture, geography, history, and politics of the country; travel to the country; study the differences between business in the US and business in that country; and learn about the current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip work.

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ECO4970: Directed Independent Study Honors in Economics 3 Thesis

Prerequiste: ECO 4903 Description: A directed research and thesis writing experience in which the student works with a faculty mentor to produce a thesis. The thesis will be evaluated by both the mentoring faculty member and two other faculty members. This is the second course for students who wish to conduct independent research in Economics with a faculty mentor. This course leads to completing Honors in Economics.


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## ECP1002: Survey in Economic Issues

This course provides a general framework for understanding economic behavior. Students will apply basic economic concepts to the analysis of current social and economic issues. Students will develop an economic intuition and understanding of issues such as healthcare, crime, pollution and professional sports.

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## ECP2140: CD - Race and Gender in the American Economy

This course examines race and gender issues from an economic perspective. It examines the source of economic inequality from the perspective of three schools of thought -- conservative, liberal and radical. The implications of racial and gender inequality in the areas of education, employment, household production, health care and the decline of America's cities will be discussed. The course is designated a Cultural Diversity course. Normally offered each spring term.

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ECP3203: Labor Economics
Prerequisite: ECO 2013, ECO 2023 or permission of instructor. Introduction to modern labor economics. Functioning of labor markets, role of labor organizations, labor legislation, and current labor problems. Normally offered each spring term.

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Prerequisite: ECO 2013, ECO 2023. Analysis of the structure, conduct, and performance of business firms. Emphasis on the role of market concentration and entry barriers on pricing and production strategies. Normally offered spring term of odd-numbered years.

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## ECP3451: Law, Economics, and Public Policy

This interdisciplinary course deals with the interaction among the areas of law, economics, and public policy. It focuses on the economic effects and content of legal rules and should be of interest to students in business, economics, political science, and international studies.

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## ECP3530: Health Economics and Policy

Prerequisite: ECO 2023. This course examines issues related to health and the health care sector from an economic perspective. Utilizing microeconomic methods, we study topics such as: demand for health care, behaviors of health care providers (including physicians and hospitals), the pharmaceutical industry, uncertainty and demand for health insurance, managed care, social insurance (including Medicare and Medicaid), and government intervention in the medical care sector.

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## ECP3613: Urban Economics

Prerequisite: ECO 2023. This course uses economic analysis to explain why cities exist, where they develop, how they grow, and how different activities are arranged within cities. Additionally, the course explores the economics of problems facing urban areas such as poverty, crime, education, and congestion.

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ECP3703: Managerial Economics
Prerequisite: ECO 2023. Corequisite: ECO 3411 or MAN 4550 This course analyzes business decision making from an economic perspective. It is normally offered intermittently.

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ECP4413: Government and Business
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Prerequisite: ECO 2013, ECO 2023. Economic analysis of industrial organization and the effects of government regulation of business. Normally offered spring term of odd-numbered years.

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ECS3013: Economic Development
Prerequisite: ECO 2013, ECO 2023 or permission of instructor. Introduction to theories and problems of economic development. Survey of development problems in both advanced and emerging economies. Selected case studies.

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Prerequisite: ECO 2013 or ECO 2023 or consent of the instructor. Analysis of the development of the European Union (EU) from its post-WWII inception to the present. The evolution of EU economic, political, and social institutions will be described and analyzed, as will the most pressing current issues confronting the EU.

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## ECS3403: Current Issues in the Economy of Latin America

Prerequisite: ECO 2013 or ECO 2023 or consent of the instructor. Examination of the current status of the major Latin American economies, including Argentina, Brazil, Chile, and Mexico. The course covers economic development, exchange rates, foreign debt, the status of the region's various trade agreements, and the integration of these economies into the world trading system.

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## GEA3405: Geography of Latin America and the Caribbean

Description: This class provides a systematic and regional survey of the geography of Latin America. Topics include physical environments, cultural geographies of pre-colonial and colonial society, population growth and migration, agriculture, mining, manufacturing and service industries, the Latin American city, political geography, development issues and Latin America's place in the global economy. Regional analysis will address Mexico, Central America, the Caribbean islands, Andean America, Brazil, and the Southern Cone.

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## GEO2000: Geography for Teachers

This course has been designed specifically for social studies teachers and teachers of grades K-12. It has used the 1997 Florida Department of Education - Changes to Academic Standards for Public Schools - as a guide for the development of materials emphasizing the competencies and skills required for teacher certification in the state. The objectives of this course are to provide the teacher with an understanding of the relationships that have developed between humans and the earth. This course cannot be taken by any Coggin College of Business majors or by Economics Majors in Arts and Sciences.

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## GEO2200: Physical Geography

The study of factors responsible for the development and distribution of landforms, climates, soils and water resources. Normally offered spring term of even-numbered years.

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## GEO2420: CD - Cultural Geography

This course analyzes the characteristics of human behavior in different cultures throughout the world. The course focuses on the ways diverse cultures organize themselves spatially to adapt to their geographic area. This Cultural Diversity course is offered every term.

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GEO3372: Conservation of Natural Resources
certification for social studies teachers. Offered only during some summer terms.
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## GEO3502: Economic Geography

Prerequisite: Principles of Economics or permission of instructor. Comparative analysis of major activities, emphasizing the distributional patterns, and the socioeconomic factors influencing the spatial orientation of economic activities. Normally offered each spring term.

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## GEO3553: Cultural Dimensions of Economic Geography

This course explores the cultural aspects associated with economic geography. It concentrates on the socio-economic consequences of changing economic structures in the development process. Normally offered each fall term.

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## GEO4905: Directed Individual Study <br> v. 1-

3
Prerequisite: Permission of department chair. Study of special topics under the guidance of faculty members. May be repeated with change of content up to a total of six credits.

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## GEO4930: Special Topics in Geography

v. 1-

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Prerequisite: Permission of instructor. Study of special topics not offered in other geography courses. May be repeated with change in content up to a maximum of six credits.

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GEO4956: Study Abroad in Geography
v. 1-

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Prerequisite: junior or senior standing Students will study a country's business practices, with a particular emphasis on economic geography and culture.

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## GIS3043: Introduction to Geographic Information Systems

This course is designed to give students an introduction to the basic concepts, theory, and methods of Geographic Information Systems (GIS). Concepts and theory will be supplemented by hands-on experience with GIS software.

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## GIS4048: Intermediate Geographic Information Systems

Prerequisite: GIS 3043. This course expands on the concepts, techniques, and theories introduced in GIS 3043. Students will learn advanced techniques of spatial data creation and advanced methods of spatial analysis.

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## Undergraduate Courses

## Marketing and Logistics

## Course Descriptions:

MAR2905: Special Topics in Marketing

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Prerequisite: Permission of the instructor
Description: This course focuses on special topics not offered in other courses in the department.
Repeatability: This course may be repeated up to 3 credits.
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MAR3023: Principles of Marketing
Prerequisite: ECO 2013 and ECO 2023; recommended prerequisite: SOP 3004
Description: This course is an introduction to the process of planning market programs for goods and services. Techniques of analyzing the market and its environment are introduced as background for making decisions in product planning, promotion, distribution and pricing.

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MAR4104: Social and Ethical Issues in Marketing
Prerequisite: MAR 3023
Description: The focus of this course is upon social and economic issues confronting marketing decision-makers in a dynamic, pluralistic society. Marketing managers are responsible for accomplishing organizational financial objectives while simultaneously protecting and advancing societal interests. This dual responsibility presents an inherent conflict, or tension, for marketing decision-makers who are responsible for short-term economic performance and long-term social welfare. Through lecture, case analyses, and debates, students are exposed to a variety of marketing situations where potential conflicts, or tensions, arise between organizational and social objectives.

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MAR4156: International Marketing
Prerequisite: MAR 3023
Description: This course is a study of the significance of international markets to multinational firms, with emphasis on the presentation of a conceptual framework for marketing within foreign countries.

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## MAR4206: Marketing Channels: Strategy, Structure, and Management

Prerequisite: MAR 3023
Description: This course investigates the nature and role of marketing channels and intermediaries. It focuses upon the design of distribution systems consonant with chosen
positioning strategies in order to effectively and efficiently move offerings from origination to points of consumption. It addresses the major normative questions pertaining to channel design and functioning, including consideration of integration strategies, channel member motivation, coordination, and control, and legal constraints on channel functioning. It addresses the impact of alternative forms on channel performance.

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## MAR4231: Retail Management

Prerequisite: MAR 3023
Description: This course examines marketing and management concepts which relate directly to the retail organization and includes an analysis of pricing, buying, credit promotion, personnel and control.

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## MAR4323: Advertising Management

## Prerequisite: MAR 3023

Description: This course is concerned with planning and managing programs for advertising products and services. This course involves preparatory research; setting of objectives; planning of budget, media, and creative programs and evaluation of advertising effectiveness.

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## MAR4400: Professional Selling

Prerequisite: MAR 3023
Description: This course focuses on the importance of communication, including nonverbal expression, as a means to successful negotiations. This course is skills oriented and emphasizes interactive, non-manipulative techniques. In addition to providing in-depth exposure to professional selling, this course assists students in making a professional career choice.

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## MAR4403: Sales Management

Prerequisite: MAR 3023
Description: This course consists of the analysis and decisions involved in developing a business firm's sales plan, providing organizational and leadership support for it, and evaluating performance to increase sales force productivity.

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## MAR4461: Purchasing Management

## Prerequisite: MAR 3023

Description: This course examines the policies and procedures pertinent to the acquisition of goods and services by public and private organizations. The course includes coverage of the purchasing, administrative, organizational, and continuing education functions of the NAPM's certified purchasing manager examination.

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## MAR4503: Consumer Behavior

Prerequisite: MAR 3023 Recommended prerequisite: SOP 3004
Description: This course provides an analysis of the behavioral factors affecting demand. Consideration is given to the purchasing behavior of the industrial buyer and the ultimate

## MAR4613: Marketing Research and Information

Prerequisite: MAR 3023 and elementary statistics
Description: This course is a study of research methods and information-gathering techniques which are applicable to problem solving in the field of marketing. Consideration is given to interpretation and use of information available.

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## MAR4663: Marketing Models

## Prerequisite: MAR 3023

Description: This course examines the development of formal structures and the application of optimization techniques in the analysis of marketing data. Topics covered may include: market segment analysis, sales forecasting, advertising impact projections, media mix determination, new product diffusion processes and brand loyalty models.

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## MAR4721: E-Marketing

Prerequisite: MAR 3023
Description: This course encompasses a study of marketing strategies and practices in the cyberspace including an examination of alternative business models, e-marketing, customer characteristics, required marketing knowledge, and enabling technologies. The focus of this course is on the Internet as a medium for communication and a marketing channel. Students will be required to develop an e-marketing strategy and plan for an e-company and a company web site.

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## MAR4803: Strategic Marketing

Prerequisite: MAR 3023, MAR 4503, MAR 4613 and senior standing
Description: The focus of this course is on decision making for marketing strategy formulation and implementation. The course employs an integrated, interdisciplinary approach using economic, behavioral, and quantitative concepts in analyzing and solving marketing problems. The course pedagogy includes case study and simulation gaming.

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## MAR4841: Services Marketing

Prerequisite: MAR 3023
Description: This course provides an examination of marketing in services industries with particular emphasis on unique aspects of services marketing, the services marketing mix and the implementation of services strategies.

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MAR4906: Special Topics in Marketing

Prerequisite: Permission of the instructor
Description: This course is a study of special topics not offered in other courses in the department.
Repeatability: This course may be repeated with change of content up to a maximum of 9
credits.
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## MAR4913: Directed Individual Study <br> v. 1-

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Prerequisite: Permission of the instructor
Description: This course is a study of special topics in marketing, particularly topics of local or regional interest under faculty guidance.
Repeatability: This course may be repeated with change of content up to a maximum of 6 credits.

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## MAR4939: Executive Seminar in Marketing and Supply Chain Management

Prerequisite: MAR 3023
Description: This course consists of a series of weekly lectures by recognized authorities that address various dimensions of marketing and supply chain management. Lectures are selected from both academic institutions and national and multinational businesses. Employment opportunities and career path planning are emphasized.

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## MAR4941: Internship in Marketing and Supply Chain v. 1Management <br> Prerequisite: MAR 3023 and approval of an advisor and internship coordinator <br> Description: This course provides students with significant experience in marketing, supply chain management, transportation and/or logistics. The internship provides the student with the opportunity to apply their educational training to marketing and supply chain issues confronting cooperating firms. Grading is on a pass/fail basis.

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MAR4943: International Marketing Internship

Prerequisite: MAR 4156 and prior approval of an advisor and internship coordinator Description: This course provides significant international business work experience with a cooperating business organization, government, or multinational enterprise. Credit depends on topics and length of internship. Grading is on a pass/fail basis.

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## MAR4956: Study Abroad in Marketing

v. 1-

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Prerequisite: Permission of the instructor
Description: This course allows students to study a country's business practices, with a particular emphasis on marketing. During this course, the student will: understand the culture, geography, history, and politics of the country; travel to the country; study the differences between business in the U.S. and business in that country; and learn about the current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip work.

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Prerequisite: ECO 2023, ACG 2071, and MAN 3025
Description: This course examines the development and the significance of transportation, economic characteristics of transportation modes, and the impact of regulation and deregulation. This course includes case analysis and current transportation management theory and practice.

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TRA4139: Seminar in Purchasing and Materials Management
Prerequisite: MAR 4461
Description: This course examines advanced concepts in purchasing and materials management with emphasis on recent research and current practices. This course is cross listed as MAN 4579.

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## TRA4155: Supply Chain Management

Prerequisite: TRA 4202 or TRA 4210
Description: This course examines how and why successful supply chain management requires cross-functional integration of key business processes within the firm and across the network of firms that comprise the supply chain. The distinction between logistics and supply chain management is identified and a framework for supply chain management is presented. Each of eight supply chain processes will be discussed, as well as topics such as: the management components of supply chain management; internet-driven supply chains; electronically linking the supply chain; integrating supply chain strategy to corporate strategy; supply chain mapping; supply chain metrics; developing and implementing partnership in the supply chain; and implementing supply chain management.

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## TRA4202: Logistics Systems Management

Prerequisite: MAR 3023, MAN 3504, and TRA 3035
Description: This course examines the design, operations and control of logistics systems for producing and servicing firms. Emphasis is placed on customer service in the management of all activities involved in moving products, services and information from point of origin to point of use and as a means of achieving a sustainable competitive edge.

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TRA4210: Logistics Subsystems Analysis
Prerequisite: MAN 3504 and TRA 3035
Description: This course focuses on the components, functions and analysis of the logistics subsystem.

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Prerequisite: MAR 3023 and MAN 3504 and TRA 3035
Description: This course covers warehousing functions, facility operations, and operational productivity improvements and measurements. With the inclusion of concepts from marketing, finance, statistics, operations management, and human resources, the course presents an integrated business approach to the detailed operational aspects of logistics facilities such as warehouse and distribution centers. The course will use real-world warehouse data to design the layout and operational requirements for a local warehousing facility.

## TRA4721: International Logistics

Prerequisite: MAN 3025, MAR 3023
Description: This course covers a variety of aspects of International Logistics for establishing and sustaining global operations. Issues addressed include the strategic and operational roles of logistics in the international arena; the role of shipping, air and other forms of international freight transportation in international logistics and their impact on world trade; international distribution and marketing channels; the logistics mix in an international context; and the management of import/export shipments including documentation requirements.

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## TRA4910: Directed Individual Study

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Prerequisite: Permission of the department chair and a faculty supervisor
Description: This course is a study of special topics under faculty guidance.
Repeatability: This course may be repeated with a change in content up to a maximum of 6 credits.

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TRA4935: Special Topics in Logistics

Description: This course is a study of special topics not offered in other logistics courses. Repeatability: This course may be repeated with a change in content up to a maximum of 6 credits.

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## TRA4945: Logistics Internship

Prerequisite: MAR 3023, TRA 3222, and either TRA 4202 or TRA 3035, each with a "C" or better, GPA of 2.75 or better, and prior approval of the Logistics Program Director Description: This internship is designed to provide the student with significant experience in transportation and logistics management. The internship provides the student with an opportunity to apply their educational background to logistical issues in firms.

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TRA4956: Study Abroad in Transportation and Logistics
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Prerequisite: Permission of the instructor
Description: This course allows students to study a country's business practices, with a particular emphasis on transportation and logistics. During this course, the student will: understand the culture, geography, history, and politics of the country; travel to the country; study the differences between business in the US and business in that country; and learn about the current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip work.

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## Undergraduate Courses

## Art and Design

## Course Descriptions:

## ARH2000: Art Appreciation

This course includes the study of visual elements, design principles, various techniques and media. Examples of Western painting, sculpture and architecture from prehistoric to present times will be examined. Local museum excursions are required.

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## ARH2050: Art History Survey I

This course is a survey of painting, sculpture and architecture from the Paleolithic era through the Medieval period. Monuments will be studied in relation to the cultural contexts of Western civilization.

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## ARH2051: Art History Survey II

This course is a survey of European painting, sculpture and architecture from the Renaissance, Baroque, Rococo, and Neoclassical periods to the emergence of modern art including Romanticism, Realism, Impressionism, Expressionism and Cubism.

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## ARH3130: The Art and Archeology of Ancient Greece

This course considers the art, architecture and archeology of ancient Greece in the context of its culture, history, religion and geography from the Bronze Age through the Hellenistic period.

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## ARH3150: The Art and Architecture of Ancient Rome

This course will consider the art, archeology and architecture of ancient Rome, from its antecedents in the Italic and Etruscan traditions, through the Republic and the late empire. Major works, monuments and sites will be examined in the context of the culture, history, geography and religion.

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## ARH3211: Early Medieval Art and Architecture

This course surveys the art and architecture of late antique and early medieval Europe from Constantine the Great to the year 1000, covering the late Roman, early Byzantine, Merovingian, Hiberno-Saxon, Carolingian, Ottonian, and early Islamic periods. We will devote special emphasis to key historical, cultural, and religious influences on medieval art, including the rise of Christianity and of Islam, the court of Charlemagne, monasticism, and the millennial terrors of the year 1000. We will also consider interpretive questions relating to art and ritual,


#### Abstract

ARH3250: Romanesque Art and Architecture This course explores the art and architecture of the Romanesque period, the 11th and 12th centuries, especially the sudden, widespread "Renaissance" of monumental sculpture. The course seeks to situate Romanesque art in relation to important cultural and religious phenomena that shaped its uses and meanings, including pilgrimage and the cult of relics, monasticism, and crusade. We will also consider the origin of the idea of a Romanesque in medieval art and interpretive approaches to Romanesque art.


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## ARH3253: Gothic Art and Architecture

This course surveys the development of art in Western Europe during the later Middle Ages, from the late 12th through the 15th century. We will consider manuscript illumination, stained glass, sculpture, and the rise and evolution of the Gothic cathedral, with special focus on themes of the droll and the grotesque and on the roles of art in late medieval piety, politics, and everyday life.

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## ARH3302: Italian Renaissance Art

Earlier Renaissance; Proto-Renaissance aspects of late Gothic art; the international style; early renaissance; high renaissance; Venetian art; mannerism. Examples of painting, sculpture and architecture will be studied.

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## ARH3319: The Art and Architecture of Michelangelo

Using contemporary as well as modern accounts of the artist, this course will study the painting, drawing, sculpture, and architecture of Michelangelo in the context of Italian Renaissance culture.

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## ARH3331: Northern Renaissance Art

This course surveys the art of Europe north of the Alps during the 15th and 16th centuries. We will consider the development of new artistic techniques and technologies in painting and print through the work of such major artists as Jan van Eyck, Albrecht Durer, and Hieronymous Bosch. The course will also investigate concepts of morality, religion, death, and Apocalypse that are reflected in the art of the period.

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ARH3350: Baroque Art
The origins of baroque art in Italy, Bernini and St. Peter's, Velazquez, Rubens and Flemish art. Rembrandt and the Dutch masters. Classical 17th century French art. The England of Sir Christopher Wren. Rococo art.

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With the towering figures of Peter Paul Rubens and Rembrandt van Rijn as bookends, this course examines art of the Netherlandish Baroque within its cultural and social contexts, with close attention to themes of religion, social morality, and humor. We will consider the significance of major artists, including Rubens, Rembrandt, Vermeer, Frans Hals, and others, in addition to important contributions by Northern Baroque artists to the development of portraiture, landscape, still life, and genre painting.

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## ARH3404: British Art: Hogarth to Hirst

This course will provide an introduction to the art and architecture of Britain from the eighteenth century to the present day. The focus will be on developing an understanding of paintings, sculpture, and architecture in their historical contexts. We will examine portraiture, landscape painting, history painting, paintings of modern life, photography and contemporary art, with additional material on architecture and decorative arts. Themes to be developed throughout the course will include: the distinctive character of British art, patronage and collecting by individuals and museums, art as propaganda, the development of portraiture as an expression of identity, the importance of landscape painting, decoration and articulation of taste, and the contemporary art scene in Britain.

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## ARH3410: Modern European Art I

This course will study European art and architecture between 1780-1870, from NeoClassicism through Impressionism.

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## ARH3434: Modern European Art II

This course will study European Art and Architecture between 1880 and 1940, from post impressionism through surrealism.

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## ARH3453: Post War Art: 1940-1980

This course focuses on the production of art within the late modern and early post-modern periods. Special attention will be paid to the ways in which race, gender, sexuality, and cultural difference are constructed within visual arts of the post-war era. Investigating the role of art critics, galleries and art periodicals, the class will also examine the different institutions through which art has been promoted and filtered in the decades following World War II.

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ARH3475: Contemporary Art: 1980 to Present
This course will explore the meaning(s) as well as stylistic, historical, and theoretical developments of painting, sculpture, mixed media works, conceptual and performance art, installation, and non-traditional photography, and video/film extending from 1980 to the present.

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## ARH3583: Tribal Arts

This course provides a selective introduction to major developments and issues in African, Oceanic and North American Indian art of the pre-colonial, colonial, and post-colonial periods. Works will be examined in relation to a culture's religion, rituals, ceremonies, political structure,
gender roles, and ethnic identity.
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ARH3621: American Art I: 1492 to 1876
American Art I surveys the visual arts of the United States from 1492 to 1876. Throughout the course we will look at the ways in which American artists sought to develop an American fine arts tradition. This course also examines how art was used to shape a strong national identity and to negotiate the tensions of race, politics, gender, class, and ethnicity.

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## ARH3623: American Art II: 1876 to 1940

Description: American Art II surveys the arts of the United States from 1876 to 1940
Examining the production of modern art in the US, we will consider how artists responded to industrialization; developments in transportation and communication; urbanization; labor; gender; race issues; economic polarization; and political conflicts.

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## ARH3631: African American Art History

Spanning Colonial times to the present, this course examines art produced by individuals of African descent in the United States. Through lectures, discussions, readings and writing assignments, students will develop a broad knowledge of African American art within its socialhistorical context. Topics will include but are not limited to: African American folk art and slavery, African American art after Emancipation, African American art and the Harlem Renaissance, African American art and the Civil Rights movement, African American women artists, and collecting African American art.

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## ARH3811: Art History Methods

Prerequisites: ARH 2050 Art History Survey I, ARH 2051 Art History Survey II, Two ARH 30004000 courses, Junior status Students will read and discuss key texts that formulate the intellectual foundation of the discipline of art history. Students will begin the semester by examining art historical texts based in connoisseurship and aesthetics and will then explore methodologies used by art historians, in particular, formalism, iconographical studies, Marxism, feminism, and post-structuralism. The writers examined include JoAnn Joachim Winckelmann, Immanuel Kant, Heinrich Wolfflin, Erwin Panofsky, Meyer Schapiro, Norman Bryson, Rosalind Krauss and others.

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## ARH3843: Studies in Irish Art and Architecture

This course is designed as a survey of Irish art and architecture ranging from the study of prehistoric monuments to works by contemporary artists. Works will be studied in the context of Ireland?s violent and oppressed history, and against the topography of its magnificent island geography. Among the examples of art and architecture the class will consider are: prehistoric and megalithic architecture); Celtic art and jewelry; early monastic sites and scriptural crosses, the great illuminated manuscripts; the emergence of decoration and ornamentation in Romanesque churches; the development of the great abbeys; modern Irish painting and sculpture from the 18th century to the present.

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The idea of the Apocalypse, the end of the world described in Revelations by St. John the Divine, profoundly influenced the subject matter of Christian art during the Middle Ages and early modern period and continues to be an important reference point in western art and culture. This course surveys the range and development of apocalyptic imagery from the Whore of Babylon to the Mark of the Beast in medieval, Renaissance, and contemporary art, with special attention paid to themes of millenarianism, the year 1000, and the Protestant Reformation.

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## ARH3930: Special Topics in Art History

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Special Topics in Art History. Special Topics courses are designed to augment the curriculum by offering classes which are not in the catalog. May be repeated for 12 credits under different topics.

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## ARH3940: Art History Practicum

Prerequisites: ARH 2050 Art History Survey I, ARH 2051 Art History Survey II, One Upper Level ARH course In consultation with faculty, students enrolled in the Art History Practicum will develop and research a topic linked thematically to current coursework in their degree program, producing a research paper of substantial length. The Practicum must be taken in conjunction with another regular 3-credit hour course in Art History. Successful completion of the Practicum is prerequisite for admission to required upper level courses in the ARH major.

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## ARH3955: Art History on Site

Students in this course will experience the history of art in situ. The course is designed to accommodate study abroad experiences and intensive explorations of domestic sites such as New York and Washington D.C, Major monuments, archeological sites, museums and works of art will be considered and analyzed in the context in which they were created or are currently housed. Cultural contexts of works of art will be explored; students will consider the myriad influences that are reflected in works of art including patronage, history, economics, religion, geography and techniques in painting, sculpture and architecture. May be repeated once.

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## ARH4710: History of Photography

A selected overview of the history of photography from its invention in the 19th century to the present day. Photographic practice will be examined from a number of vantage points including: technique and utilitarian function, sociopolitical context and aesthetics. The following areas will be investigated: prehistory and invention of photography; portraiture, landscape, and expeditionary photography; social documentary photography; photography as artistic experiment; photography and postmodern practice; and photography in the digital age.

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ARH4724: Graphic Design History
This class explores the evolution of graphic design from past to present. Slide lectures present an overview with emphasis on important periods. It examines the relationship between design
and the historical influence on contemporary design. Related topics include typography, photography, illustration and technological impact.

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#### Abstract

ARH4800: Aesthetics of Art A search for beauty and expression in the arts. Through lectures, discussions, movies, and slides, this search will take into account the thoughts of Santayana, Dewey, Langer, Tolstoy and well-known contemporary philosophers, artists, writers, architects and film makers.


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## ARH4801: Art Criticism

Prerequisites: ARH 2050, ARH 2051, One ARH 3000 or 4000 level. An investigation of selected philosophies of art criticism in the 20th Century. Students will apply methods of analysis and interpretation to the critique of art. Individual ideas will be expressed through writing assignments, group critiques, guest lectures, and visits to art exhibitions. Emphasis will include contemporary art issues.

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## ARH4905: Directed Individual Study

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Prerequisites: ARH 2050 Art History Survey I, ARH 2051 Art History Survey II, 3 upper level ARH courses This course provides context for intensive, direct collaboration between instructor and the enrolled student(s) on original research topics. The topics addressed and the scope of the collaboration is determined by the instructor in consultation with the enrolled student(s). The course is an opportunity for advanced study in Art History through one-on-one student/faculty contact designed to develop high-level critical, analytical, and research and writing skills. May be repeated up to 6 credit hours.

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## ARH4910: Art History Research

Prerequisites: ARH 2050 Art History Survey I, ARH 2051 Art History Survey II, ARH 3811 Art History Methods and at least two 3000-4000 level ARH courses. As a capstone art history course, Art History Research is designed to build upon students? art historical knowledge gained in other courses (see prerequisites) and its major goal is to provide an opportunity for extensive student research in the field of Art History.

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## ARH4941: Internship in Art History

Prerequisites: Art History major or minor ARH 2050, ARH 2051 and three upper level art history courses, permission of department chair The internship provides supervised professional work experience in a gallery, museum, archeological or cultural organization. May be repeated for up to 6 credits.

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## ART1201C: Two-Dimensional Design

This course is an introduction to the utilization of the elements and principles of design, through various media on the flat surface. Emphasis will be placed on developing an understanding of the various organizational possibilities available in designing for the flat
surface. Along with learning and applying professional presentation skills and craftsmanship, the development of ideas, problem-solving skills and understanding design concepts are the focus of this course. (A material fee of $\$ 25$ will be assessed.)

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## ART1205C: Color Theory

The focus of this class is on the physical properties and relationships of color mode systems. Students will expand their color sensibilities and develop a working understanding of color psychology, symbolism and expressive color. Research, critique of work and class discussions will expand the use of color-appropriate vocabulary and aid in the student's development of critical thinking skills. Studying the work, classic and contemporary, of important theorists, artists and designers will broaden their understanding of color as a visual language. (A material fee of $\$ 40$ will be assessed.)

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## ART1300C: Drawing I

This course is an introduction to basic observational drawing skills, including but not limited to: perspective, contour, and gesture. The use of positive/negative space, value line and mass will be emphasized in relationship to the design and organization of composition. The techniques of creating volume and space and the effects of light of the three dimensional form on the twodimensional picture plane will be addressed. Through regular critiques, students will begin to make critical decisions about their work. (A material fee of $\$ 10$ will be assessed.)

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## ART2203C: Three-Dimensional Design

This course is an introductory studio experience in the visual arts, focusing on the structural and spatial exploration of three-dimensional form through a variety of media with an emphasis on design and construction. Students will develop presentation skills and craftsmanship, while formulating problem-solving skills and concept generation. (A material fee of $\$ 50$ will be assessed.)

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## ART2301C: Drawing II

Prerequisite: ART 1300C This studio course is a continuation, reinforcement, and an expansion of basic direct observation drawing skills and techniques learned in Drawing I. Direct observation for this course is defined as drawing from still life, landscape and architecture. Students use traditional subject matter to explore a range of drawing materials and techniques including mark-making techniques and gesture with an introduction of color. Compositional sensibilities and good understanding of both positive and negative space will be emphasized. Classic and contemporary references will broaden understanding of drawing as a visual language. (A material fee of $\$ 10$ will be assessed.)

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## ART2330C: Figure Drawing I

Prerequisite: ART 2301C, and consent of instructor This course gives students' a thorough understanding of the structure and anatomy of the human figure through direct observation and measurement of the nude model. Students render the human figure using proportion, weight, form and mass. Skills developed in previous drawing classes will be further refined in relation to the human figure. Historic and contemporary references will broaden the students' understanding of the figure as part of the visual language. Through regular critiques, students will begin to make critical decisions about their work.

# ART2400C: Introduction to Printmaking 

Prerequisites: ART 1300C Drawing I \& ART 2301C Drawing II This course is designed as an introduction to traditional methods of printmaking. Students will design and construct basic relief, intaglio, and planographic techniques. The unique quality of the graphic aesthetic will be emphasized along with the ability to produce original multiples through hands on methods in print. (A material fee of $\$ 70$ will be assessed.)

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## ART2500C: Painting Fundamentals

Prerequisite: ART 1300C, ART 2301C This course is an introduction to the techniques, concepts and history of painting through direct observational study. In this course there will be an emphasis on the use of color to render of space light and form. Students' will look for and discover individual expression and points of view in their paintings. Historic and contemporary references will broaden the students understanding of painting as a visual language. Through regular critiques, students will begin to make critical decisions about their work. (A material fee of $\$ 25$ will be assessed.)

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## ART2605C: Basic Computer Images

This course covers the basics of the Macintosh operating system and industry standard design applications. Topics include the creation of vector and raster images, page layout, and PDFs. No prior computer experience is needed. (A material fee of $\$ 45$ will be assessed.)

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## ART3332C: Figure Drawing II

Prerequisite: ART 2330C This studio course is designed to further develop the visual, verbal and technical skills necessary to represent the figure though direct observation of the nude model. Students work in a variety of media. The course focuses on using the figure as an element in composition and reinforces the skills used in Figure Drawing I. Students are expected to develop the ability to draw the figure perceptually, expressively and with an awareness of some of the conceptual issues associated with the figure. Historic and contemporary references will broaden the students understanding of the figure as part of the visual language. With regular critiques, students will begin to make critical decisions about their work.

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## ART3420C: Lithography Printmaking I

Prerequisite: ART 2400C This course is designed as an introduction to planographic print methods. Students will learn to construct and edition traditional and alternative lithographic techniques including aluminum plate lithography. Research, experimentation and a final print exchange will be encouraged. (A material fee of $\$ 70$ will be assessed.)

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ART3433C: Screenprint I
Prerequisite: ART 2400C or PGY 1800C This course is designed as an introduction to serigraphy (screenprint). Students will design and construct basic screen print methods including cut stencil, hand drawing and photosensitive processes. The unique quality of the
graphic aesthetic will be emphasized along with the ability to produce original multiples through hands on methods in screenprint. (A material fee of $\$ 70$ will be assessed.)

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#### Abstract

ART3442C: Intaglio Printmaking I Prerequisite: ART 2400C Introduction to Printmaking This course covers the major acid etching methods of intaglio printmaking. Multiple viscosity color inking techniques will be introduced along with traditional and alternative plate construction methods. Students will create varied editions and non-acid techniques including mono-print and mono-type. Experimentation and collaboration in a Final Print Exchange will be encouraged. (A material fee of $\$ 70$ will be assessed.)

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#### Abstract

ART3443C: Relief Printmaking I Prerequisite: ART 2400C Introduction to Printmaking This course covers traditional and nontraditional methods of relief printmaking. Multiblock color printing, reduction block printing and the collagraph will be introduced. Emphasis will be given to the unique graphic aesthetic of the woodblock/linoblock. Experimentation and collaboration in a Final Print Exchange will be encouraged. (A material fee of $\$ 70$ will be assessed.)


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## ART3504C: Painting Studio

Prerequisite: ART 2500C The purpose of this class is to allow the student to develop their work through directed and self-motivated activities. Assignments will be designed to allow personal artistic development while further developing an understanding of painting media. Regular group and individual critiques will be held to mark the progress of the students' work. There will be several directed projects, discussions and demonstrations intended to expand knowledge of artistic processes. (A material fee of $\$ 30$ will be assessed.)

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## ART3505C: Alternative Processes in Painting

Prerequisite: ART 2500C This course is designed to allow for in depth, directed exploration of the many possibilities of painting with non-traditional painting materials and alternative painting techniques. (A material fee of $\$ 10$ will be assessed.)

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## ART3560C: Figurative Painting

Prerequisites: ART 3332C and ART 2500C. This class is about understanding and interpreting the figure in paint. The classes will explore painting the figure, and enable students to develop individual approaches to figurative painting in studio painting sessions. The students will explore mixing color for flesh tones, as well as composition, anatomy, and painting techniques. May be repeated for a maximum of 6 hours. (A material fee of $\$ 15$ will be assessed.)

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## ART3707C: Sculpture I

Prerequisite: ART 2203C This course is a continuation of the studio experience. Students will use sculptural materials and a variety of core sculptural processes with an emphasis on technical development and construction techniques. Individual expression in three dimensions will be enhanced by an expanded understanding of materials and construction methods. (A

## ART3709C: Sculpture II

Prerequisite: ART 3707C Students will continue to expand on their technical development in a number of sculptural materials, while developing their personal artistic style. (A material fee of $\$ 115$ will be assessed.)

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## ART3714C: Sculpture: Casting

Prerequisite: ART 3707C. This course covers a variety of mold-making and casting processes, including both rigid and flexible mold-making materials, incorporated with both cold material and hot metal casting processes. The course may be repeated for a maximum of 9 hours. (A material fee of $\$ 115$ will be assessed.)

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## ART3765C: Intermediate Ceramics

Prerequisite: ART 3786C. This course covers intermediate exploration of ceramic methods emphasizing individual expression, alternative directions and aesthetic qualities in clay. Surface enhancement including special glazing techniques is covered. This is course may be repeated for a maximum of 9 hours. (A material fee of $\$ 65$ will be assessed.)

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## ART3786C: Ceramics

This course covers hand-building, wheel-throwing, glazing, and firing procedures to increase technical proficiency and sensitivity in the design process and to translate personal expression and aesthetic values into art form. This course may be repeated for a maximum of 6 hours. (A material fee of $\$ 65$ will be assessed.)

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## ART3930: Special Topics in Art

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May be repeated for a total of 24 credits under different topics. (A material fee of $\$ 35$ will be assessed.)

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## ART4421C: Lithography Printmaking II

Prerequisite: ART 3420C This course is designed to present advanced planographic print methods including photo-lithography. Students will learn to construct and edition traditional and alternative lithographic techniques. Research, experimentation and a final print exchange will be encouraged. (A material fee of $\$ 70$ will be assessed.)

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## ART4434C: Screenprint II

Prerequiste: ART 3433C This course is designed to give the experienced printmaker advanced screenprint methods using traditional and non-traditional print materials. Experimentation, social impact of multiples, and large-scale printing will be encouraged through the use of

## ART4444C: Intaglio Printmaking II

Prerequisite: ART 3442C This course is designed to give the experienced printmaker advanced printing methods including photo intaglio and multiple plate color etching techniques. Experimentation, large format, and narrative plate construction will be encouraged. (A material fee of $\$ 70$ will be assessed.)

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## ART4445C: Relief Printmaking II

Prerequisite: ART 3443C This course is designed to give the experienced printmaker successful ways to make relief prints on traditional and non-traditional print materials. Experimentation and large-scale relief printing will be encouraged through the use of collagraph, woodblock, linoleum and alternative surfaces or found objects. (A material fee of $\$ 70$ will be assessed.)

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## ART4710C: Sculpture III

Prerequisite: ART 3707C, ART 3709C This course is designed for individual specialization in sculpture studio including research in a focused artistic direction. Emphasis will be placed on personal style development, professional awareness, and studio practice. (A material fee of $\$ 115$ will be assessed.)

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## ART4736C: Sculpture: Enlivened Spaces

Prerequisite: ART 3707C. The studio-based course provides the basic foundations for sculptural studies through a series of projects and creative inquiries. The projects foster a relationship between concept to process, and intention to outcomes. Basic sculptural languages will be explored, such as metaphor, narrative, metonymy, space, materiality, form, mass and scale. The interdisciplinary nature of contemporary sculptural practice is emphasized through projects which include but are not limited to collaboration, performance art, site-specific art, sound art, light art, and time-based art as well as exploratory application of traditional forms and methodologies. Some local travel will be involved to produce artwork on location. (A material fee of $\$ 115$ will be assessed.)

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## ART4768C: Advanced Ceramics

Prerequisite: ART 3786C. This is an advanced course for individual specialization in ceramic studio. Topics will include and not be limited to glaze exploration and the development of ceramic forms. The course may be repeated for a maximum of 9 hours. (A material fee of $\$ 65$ will be assessed.)

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## ART4788C: Ceramic Aesthetic

Prerequisite: ART 3786C. This course focuses on advanced levels of invention employing the creative process toward very personal forms, glazes and techniques. Consideration is given to new technology in the field as well as contemporary ideas on aesthetics and quality. (A material fee of $\$ 65$ will be assessed.)

## ART4805C: Painting/Drawing Research

Prerequisites: ART 3504C and ART 3332C. This course is a concentrated study of drawing and painting processes. Advanced studio problems in drawing and painting are pursued with emphasis on independent work. Seminar discussions and critiques are central to the course. Regular group and individual critiques will be held to mark the progress of the students' work. Historic references will broaden understanding of drawing and painting as part of the visual language. (A material fee of $\$ 25$ will be assessed.)

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## ART4905: Directed Individual Studies

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A maximum of 15 credits may be accumulated in directed individual studies. (A material fee of $\$ 15$ will be assessed.)

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## ART4929C: Senior Project

Students enrolled in this course will make, promote and install a body of work which exhibits a professional approach and understanding of the medium selected. An artist's statement and an exhibition plan is required. (A material fee of $\$ 25$ will be assessed.)

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## ART4935: Seminar

v. 1-

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A maximum of 15 credits may be accumulated in seminars. (A material fee of $\$ 15$ will be assessed.)

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## ART4965C: Fine Arts Portfolio

An outgoing portfolio, representative of the student's work, will be assembled by the student with the guidance and approval of the art faculty. (A material fee of $\$ 10$ will be assessed.)

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## GRA2190C: Introduction to Graphic Design

Prerequisites: ART 1201C, ART 2203C, ART 1300C, ART 2301C, and ART 2605C. The course explores the fundamentals of Graphic Design. Students will develop an understanding of the design principles through class projects. The process of design will be stressed, including research, sketches and computer generated compositions. Students will develop an understanding of the industry and will be exposed to contemporary designers. The course will include various methods of investigation to developing an appreciation of visual communication. (A material fee of $\$ 45$ will be assessed.)

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be explored. Design problems will be used to explain how to effectively prepare a job from concept through the printing process. Projects will be used to explore traditional and digital printing technology and techniques used in producing a job for press. (A material fee of $\$ 45$ will be assessed.)

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## GRA3118C: Publication Design

Prerequisites: GRA 3183C, GRA 2203C This course focuses on creative problem solving for publication design. Emphasis is placed on the importance of content as the foundation for concept development, creation of flexible grid systems, typographic detail and composition. Topics include but are not limited to magazine, annual report, newspaper, catalog and book design. (A material fee of $\$ 15$ will be assessed.)

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## GRA3183C: Typography Studio

Prerequisites: GRA 2190C. The principles of typography will be explored through exercises and projects. Projects will emphasize the typographic form and type-and-image in visual communication. Emphasis will be placed on terminology, historical origins, form and compositional elements used while designing with type. Problem solving skills, process and research will be stressed. Graphic design principles will be reinforced with projects concentrating on typographic detail. (A material fee of $\$ 45$ will be assessed.)

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## GRA3512C: Corporate Identity

Prerequisites: GRA 3183C, GRA 2203C This course explores the application of visual identity systems for large and small companies. Comprehensive research on color symbolism, graphic forms, typography and design is examined. The research will be applied to designing identity systems while stressing creative solutions and originality. (A material fee of $\$ 15$ will be assessed.)

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## GRA3523C: Introduction to Web Design

Prerequisites: PGY 1800C, GRA 3880C This studio course focuses on the creative and technical skills necessary for Web design. Students explore techniques used in building graphics for the Web, along with the fundamentals of Web design and HTML. An emphasis is placed on the differences between print and Web design. Interface design, user experience, site management and browser compatibility issues are discussed. Through the use of in-class lectures, demonstrations, and critiques students develop a Web design vocabulary. (A material fee of $\$ 15$ will be assessed.)

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## GRA3833C: Motion Graphics

Prerequisites: PGY 1800C Digital Photography for Designers, GRA 3880C Illustration This course introduces students to motion graphics, as it relates to special effects, animation, and advertising. Students will be challenged to apply their current design knowledge in motion graphics. New solutions to visual problems will be explored through challenging class projects. Additional emphasis will be placed on exploring motion graphics as it relates to contemporary media. (A material fee of $\$ 45$ will be assessed.)

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Prerequisites: GRA 2190C Introduction to Graphic Design This course surveys the broad field of illustration through studio projects that examine the varied requirements in areas such as advertising, editorial and book illustration. Projects challenge the students ability to create illustrations, both traditionally and digital, that communicates to a mass audience with impact and style. Additional emphasis will be placed on applying illustrated works to a digital, page design. (A material fee of $\$ 45$ will be assessed.)

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## GRA4119C: Package Design

Prerequisites: GRA 3183C Typography Studio, GRA 3512C Corporate Identity This course introduces the principles of graphic design and three dimensional design as they apply to packaging design. This course will cover principles of branding and how they apply to the process of designing packaging. Students will explore conceptual development and problem solving in three dimensional graphic design systems. In addition, they will work with functional and formal aspects of packaging. Students will also improve their creativity skills while working individually and in teams. They will interface with equipment, software and a variety of packaging materials, forms and containers. (A material fee of $\$ 45$ will be assessed.)

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## GRA4137C: Advanced Web Design

Prerequisite: GRA 3523C This studio course builds on the principles taught in introduction to web design. Students are challenged to solve advanced communication problems while addressing technical issues relating to web design and the user experience. An emphasis is placed on web standards, advanced HTML and CSS. Students work with industry standard tools to produce assignments that simulate real world projects. Additional topics to be discussed will include: User Testing, Project Panning, Ste Evaluation and Collaboration. (A material fee of $\$ 45$ will be assessed.)

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## GRA4154C: Advanced Illustration

Advanced problems and techniques of conceptual and editorial illustration. Problems and demonstration in a variety of media-methods of presentation. (A material fee of $\$ 45$ will be assessed.)

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## GRA4179C: Social Design

Prerequisites: GRA 2203C, GRA3183C This course will explore the purpose of Graphic Design for social change outside the scope of advertising. Students will investigate societal issues and provide design solutions in response to the problems identified. The student will also consider the relevance of design for pro-bono and non-client based causes. Class projects will emphasize the conceptual and aesthetic aspects of delivering an effective message. (A material fee of $\$ 45$ will be assessed.)

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## GRA4186C: Senior Design Studio

Prerequisites: GRA 3183C, GRA 3512C This course focuses on the refinement of student's problem-solving abilities through the advanced application of the design process. They research and analyze topical subjects to create visual communication application such as Poster, Corporate Identity Systems, and Environmental and Editorial Design Applications.

Emphasis will be placed on expressive and creative communication through graphic design and portfolio development through production of high-quality printed portfolio pieces. (A material fee of $\$ 15$ will be assessed.)

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## GRA4189C: Graphic Design Portfolio

Prerequisites: Senior Status, GRA 4186C Senior Design Studio This course focuses on the development and execution of a graphic design and digital media portfolio. Emphasis will be placed on printed and digital portfolios, including an online format. Topics include creation of personal business packet and self promotional pieces. Interview and job search skills will be discussed and developed. Individual assignments will be given to strengthen and round out each portfolio. (A material fee of $\$ 15$ will be assessed.)

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## GRA4423: Business of Graphic Design

Prerequisites: Senior Status, GRA 3512C Corporate Identity Through lectures, discussions, and various assignments, students will be exposed to the legal and business issues affecting graphic designers today. Design topics such as freelancing, starting a design firm, pricing, estimating, invoicing and copyright will be examined. Case-studies and role-playing will be used to strengthen professional conduct and introduce best practices. An emphasis will be placed on the designer-client relationship. (A material fee of $\$ 15$ will be assessed.)

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## GRA4513C: Product Promotion

Prerequisite: GRA 3183C Typography Studio This course explores and deciphers messages in product promotion for television, website, and print. Students will be taught how to use visual rhetoric and persuasion to educate a target audience about products and services. Various theories and practices used in the advertising industry will also be discussed. Emphasis will be placed on design solutions for product promotion. (A material fee of $\$ 45$ will be assessed.)

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## GRA4586C: Interactive Studio

Prerequisites: GRA 3523C Introduction to Web Design, GRA 3833C Motion Graphics Using industry standard tools, students develop a body of work with an emphasis on interactive animated Web sites and applications. Students are encouraged to explore interactivity through the eyes of the producer as well as the viewer and create a positive user experience. During this course, students will discuss and evaluate design examples to further develop critical thinking skills. Technical considerations such as scripting, online distribution, dynamic content and the integration of sound and video are examined. (A material fee of $\$ 45$ will be assessed.)

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## GRA4884C: Advanced Motion Graphics

Prerequisite: GRA 3833C Motion Graphics This course focuses on traditional animation, fundamentals of character design, layout and timing. Projects will focus on the differences between the limitations and specifications for Web and Broadcast. Students will evaluate motion design and animation examples and discuss film theory as it relates to the role of designer/producer. Emphasis will be placed on taking ideas from concept to finished shorts utilizing the current technology. Commercial as well as experimental techniques will be discussed. (A material fee of $\$ 45$ will be assessed.)

## GRA4940: Internship in Graphic Design

Prerequisites: Senior standing and completion of three upper-level graphic design courses and consent of coordinator. Students will work and study on the job with a Graphic Design firm or an organization that has a Graphic Design Department. The firm or organization must be approved by the coordinator and paid positions are preferred. (A material fee of $\$ 15$ will be assessed.)

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## PGY1800C: Digital Photography for Designers

Prerequisite: ART2605C Basic Computer Images. This course will explore proper photographic techniques, including: framing an image, exposure settings, and camera controls. Additional emphasis will be placed on computer image editing. Students will be expected to photograph various subjects and explore image editing software. Image management and composition will be stressed while shooting for print and digital design projects. This class will prepare students to apply imagery to future design projects in the program. (A material fee of $\$ 65$ will be assessed.)

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## PGY2401C: Black and White Photography

Laboratory procedures, methods and materials in the use of the camera; technical darkroom and creative applications for individual expression and commercial potential in photography. A 35 mm or 120 roll-type camera is required. (A material fee of $\$ 75$ will be assessed.)

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## PGY3153C: Color Photography

Prerequisites:PGY 2401C, PGY 3410C, PGY 3801C This course will investigate color photography as a means of expression and form of visual communication. Students will learn the principles of color theory and color management while they refine their digital darkroom skills. Adobe Photoshop will be utilized to achieve the desired technical and aesthetic results. (A material fee of $\$ 75$ will be assessed.)

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## PGY3234C: Fashion Photography as Art

Prerequisites: PGY 2401C , PGY 3410C, PGY 2110C This course utilizes studio and location approaches to photographic fashion design and illustration. The course is designed to teach the student the "Art of Fashion Photography". This implies "ART" as the main ingredient in the work to be accomplished. This course will explore the origins of fashion photography to the modern concept as visualized in current fashion magazines and other venues. Students will demonstrate critical thinking as it applies to this profession along with feminist dialogues concerning such imagery. The course will instruct the student in the professional use of transparency film and use digital photography as it applies to the profession of fashion photography, along with the use of studio fashion lighting. (A material fee of $\$ 75$ will be assessed.)

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in photo illustration and the use of photography as a subjective means of expression and communication; its application as an art form and use in cultural documentation. (A material fee of $\$ 75$ will be assessed.)

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## PGY3820C: Digital Imaging Photo Majors

Prerequisite: PGY 2401C. This course will investigate computer tools that manipulate and enhance photographic images. Students will explore a wide range of assignments and exercises designed to develop digital darkroom skills and expand their creative possibilities. Basic issues surrounding photography in the digital age will be presented and discussed throughout the semester. (A material fee of $\$ 75$ will be assessed.)

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## PGY3930C: Special Topics in Photography

Prerequisites: PGY 2401C, PGY 3410C, PGY 3820C, One PGY 4XXXC level course This course offers a broad range of topics in in applied photographic practice. Special Topics courses are characterized by a "workshop" format where students work individually and with faculty on extended projects designed to develop technical proficiency in one or more photographic processes while working towards production of a coherent portfolio and written artist statement. A materials fee will be assessed for this course. (A material fee of $\$ 75$ will be assessed.)

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## PGY4006C: Studies in the History of Photography

Prerequisite: ARH 4710 This course will investigate a range of critical attitudes and photographic strategies that define contemporary photographic practice. Among the areas to be investigated: trends in contemporary photography; photographic practice in the digital age; new directions in documentary practice; photography and changing technology; and the resurgence of historical and analog processes in the the digital era. (A material fee of $\$ 25$ will be assessed.)

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## PGY4205C: Advanced Lighting Principles

Prerequisites: PGY 2401C, PGY 3410C, PGY 2110C This course introduces the student to artificial sources of light. These sources are studied and analyzed to enable the student to discern and employ light effectively and creatively through the use of studio lighting and nonstudio flash photography. (A material fee of $\$ 75$ will be assessed.)

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PGY4213C: Classic Black and White Portraiture
Prerequisites: PGY 2401C, PGY 3410C, PGY 2110C This course introduces students to a complex and diverse lighting system focused on the intrinsic 1930s and 1940s level of photographic portraiture. Students will read and concentrate on visual patterns of light forms established by photographic portrait masters such as Hurrell, Beaton, et. al. who have visually inculcated their designs into western visual culture. (A material fee of $\$ 75$ will be assessed.)

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alternative ways of imaging with photographic materials. Emphasis will be on historical and contemporary techniques, as well as on the hand-altered photograph and its potential for artistic expression. (A material fee of $\$ 75$ will be assessed.)

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## PGY4476C: Senior Photo Portfolio

Senior Status photography students only. Students work on preparation of a final portfolio, based on individual style and concept development based on the student's need of continued education, or professional placement. (A material fee of $\$ 75$ will be assessed.)

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## PGY4643C: Personal Documents

Prerequisites: PGY 2401C, PGY 3410C, PGY 3820C This course is an introduction to the practice of documentary photography. Students will be presented with the historical and theoretical developments of this genre as well as its traditional and contemporary strategies and techniques. Students will research, develop and execute their own documentary project. Analog or digital cameras may be used for this class, and students may choose to work in the traditional or digital darkroom. (A material fee of $\$ 75$ will be assessed.)

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## Undergraduate Courses

## Mathematics and Statistics

## Course Descriptions:

## MAA4200: (GM) Mathematical Analysis

Prerequisite: MHF 3202 and two other mathematics or statistics courses with prerequisites at or above the level of Calculus II. This course is designed to teach the foundations of analysis for secondary mathematics education majors. Topics will include: the real numbers, sequences, the Bolzano-Weierstrass Theorem, limits, continuity, uniform continuity, differentiation (Rolle's Theorem and the Mean Value Theorem), and Riemann integration. (This course cannot be used to satisfy degree requirements for mathematics majors.)

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## MAA4211: (GM) Advanced Calculus I

Prerequisites: MAC 2313, MAS 3105, MHF 3202 and another mathematics or statistics course with a prerequisite at or above the level of Calculus II. A two-term sequence investigating topics in analysis such as the real number system, continuity, sequences and series, differentiation, integration, Jacobians and the inverse and implicit function theorems.

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MAA4212: (GM) Advanced Calculus II
Prerequisites: MAC 2313, MAS 3105, MHF 3202 and another mathematics or statistics course with a prerequisite at or above the level of Calculus II. A two-term sequence investigating topics in analysis such as the real number system, continuity, sequences and series, differentiation, integration, Jacobians and the inverse and implicit function theorems.

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MAA4402: (GM) Complex Analysis
Prerequisite: MAC 2313 and another mathematics or statistics course with a prerequisite at or above the level of Calculus II. This course covers the complex number system, complex functions, Cauchy's Theorem, Cauchy's Integral Formula, analytic functions, meromorphic functions, contour integration, and residue theory.

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MAC1101: (GM) Intensive College Algebra
Prerequisite: Permission of the Department This course is designed for the student who has some knowledge of Intermediate Algebra, but who is not ready for College Algebra (MAC 1105). This course reviews key topics in Intermediate Algebra and it covers the material in College Algebra, linear functions, quadratic functions, inequalities, polynomials, exponentials, and logarithms. Students may not receive credit for this course and MAC 1105 (College Algebra) or MAC 1147 (Precalculus).

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Prerequisite: Intermediate Algebra. Topics will include linear and quadratic functions, systems of equations and inequalities, polynomials, exponentials, logarithms. Students may not receive credit for this course and MAC 1101 (Intensive College Algebra) or MAC 1147 (Precalculus).

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## MAC1114: (GM) Trigonometry

Prerequisite: MAC 1105. This course will include the following topics: trigonometric functions and their inverses, graphing trigonometric functions, identities, complex numbers, solving triangles, and applications of trigonometric functions. Students may not receive credit for both MAC 1114 and MAC 1147.

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## MAC1147: (GM) Precalculus

Prerequisite: Intermediate Algebra. Topics will include linear and quadratic functions and their applications; systems of equations; inequalities, polynomials, exponentials, logarithms, trigonometric functions and their inverses and their graphs; trigonometric identities, and complex numbers. Students may not receive credit for MAC 1147 and also for MAC 1105 or MAC 1114 or MAC 1101.

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## MAC2233: (GM) Calculus for Business

Prerequisite: MAC 1105 or MAC 1147. Topics in differential and integral calculus with applications. (This course cannot be used to satisfy upper-level degree requirements by mathematics, statistics or natural science majors).

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## MAC2241: (GM)Calculus for Biology

Prerequisite: MAC1147 Precalculus. This course is a one-semester introduction to differential and integral calculus. Applications will emphasize biological sciences. Students cannot receive credit for this course and also for MAC2311 (Calculus I) or MAC2233 (Calculus for Business).

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## MAC2311: (GM) Calculus I

Prerequisite: MAC 1147. This course examines the notions of limit, continuity and derivatives of functions of one variable. The course explores differentiation rules for algebraic, trigonometric, exponential and logarithmic functions. The course discusses applications of differential calculus, such as related rates problems, curve sketching, and optimization. The course also introduces students to definite and indefinite integrals and the Fundamental Theorem of Calculus. (This course cannot be used to satisfy upper-level degree requirements by mathematics, statistics or natural science majors. Students completing this course may not enroll in MAC 2233.)

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## MAC2312: (GM) Calculus II

course presents various integration techniques and their applications, convergence of sequences and series, as well as power series and Taylor series of a function of one variable. (This course cannot be used to satisfy upper-level degree requirements by mathematics, statistics or natural science majors.)

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## MAC2313: (GM) Calculus III

Prerequisite: MAC 2312. This is the third course in calculus designed to cover calculus of functions of several variables. The course covers analytical geometry and vectors in two and three dimensions. The course covers calculus of parametric and vector-valued functions. This course introduces students to functions of several variables and then those functions are analyzed and applied using partial derivatives, differentials, directional derivatives, gradients and optimization. Additionally, the course presents a study of multiple integrals in rectangular, polar, cylindrical and spherical coordinates.

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## MAD3107: (GM) Discrete Mathematics

Prerequisite: MAC 2312. This course provides an introduction to discrete mathematics. Topics include sets, mathematical induction, functions, relations, recurrence relations and generating functions. Introductory topics from graph theory and combinatorics will also be presented.

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## MAD4203: Combinatorics

Prerequisites: MAD 3107, MHF 3202, COT 3100 This course covers advanced topics in combinatorial mathematics, including counting techniques, Polya's theory of counting, coding theory, and block designs. Applications to various problems in mathematics and computing will be discussed.

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## MAD4301: Graph Theory

Prerequisites: MAD 3107, MHF 3202, COT 3100 Topics in this course include graph isomorphism, Eulerian and Hamiltonian graphs, minimum spanning trees, matchings and covers, connectivity, network flows, colorings, planarity, embeddings, and Ramsey theory.

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## MAD4401: (GM) Numerical Analysis

Prerequisites: MAC 2313, MAP 2302, MAS 3105 and a scientific programming language. Topics covered in this course include error analysis, numerical solutions of equations in one variable, polynomial interpolation, numerical integration, and numerical solutions of initial value problems.

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MAD4505: Discrete Biomathematics
Prerequisites: MAD 3107 or MHF 3202 or COT 3100 This course covers mathematical aspects of biomolecular models of computation. Topics include computability, intractable problems, splicing systems, DNA codes, biomolecular automata, membrane systems, and self-assembly.

Prerequisite: MAC 2312. The course presents a selection of topics from first-order and second-order ordinary differential equations, Laplace transform, and systems of linear equations.

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## MAP3170: Financial Mathematics for Actuarial Science

Prerequisite: MAC 2312 This course covers the content of the joint Society of Actuaries/Casualty Actuarial Society Exam FM/2 on mathematical interest theory. Topics include amount functions, interest rates and yields, force of interest, special annuity types, bonds, yield curves, interest rate sensitivity, and an introduction to the mathematics of financial derivatives.

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## MAP4231: (GM) Operations Research

Prerequisites: MAS 3105 and STA 4321. This course provides an introduction to operations research and its applications. Emphasis will be on linear programming. Applications include topics from transportation and network problems, stochastic processes, queuing theory, game theory and decision theory.

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## MAP4341: (GM) Elementary Partial Differential Equations

Prerequisites: MAP 2302 and MAC 2313. This course introduces students to second-order linear partial differential equations (heat, wave and Laplace equations), Fourier series, separation of variables in partial differential equations, and applications.

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MAS3105: (GM) Linear Algebra
Prerequisite: MAC 2312. This course covers matrix algebra, Gaussian elimination, determinants, Euclidean spaces, linear transformations, eigenvalues, eigenvectors, and vector spaces.

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MAS3203: (GM) Number Theory
Prerequisite: MAC 2312. This course investigates properties of integers, including the division and Euclidean algorithms, prime factorization, congruences, and Diophantine equations.

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MAS4156: (GM) Vector Analysis
Prerequisite: MAC 2313. This course covers vector fields, curl, gradient, divergence, line and surface integrals, Greenâ $€^{T M} s$ theorem, Stokesâ $€^{T M}$ theorem, the divergence theorem, and physical applications.

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prerequisite at or above the level of Calculus II. An introduction to the basic concepts of abstract algebra. Topics will be selected from groups, rings, and fields.

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## MAS4302: Abstract Algebra II

Prerequisite: MAS 4301 This is a continuation of MAS 4301 intended to continue building upon fundamental concepts of Abstract Algebra I. Topics covered include, but are not limited to, the structure of groups and their subgroups, rings, unique factorization, Euclidean domains, and fields.

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## MAS4932: Capstone Experience in Mathematics

Prerequisite: Senior standing and permission of the Department
Description: The instructor will determine the structure of the course, choosing among studentconducted course projects, student research, and/or seminars. The course will result in a student paper and presentation.

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## MAT3930: Selected Topics in Mathematical Science

Prerequisite: Permission of the department.
Description: This course will cover topics in mathematics selected by the instructor. The course may be repeated for a total of 12 credits with permission of the department.

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## MAT4906: Directed Individual Studies

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Description: This course may be repeated for a total of 12 credits with permission of the department.

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## MAT4931: Special Topics in Mathematical Science

Prerequisites: Permission of the department.
Description: This course will cover topics in mathematics selected by the instructor. The course may be repeated for a total of 12 credits with permission of the department.

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MAT4937: Seminars

Prerequisite: Permission of the department.
Description: This course may be repeated for a total of 12 credits with permission of the department.

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Intermediate Algebra. Topics will be selected from: linear equations and inequalities; linear programming, matrices and systems of linear equations; combinatorics and elementary probability; game theory with applications; logic; mathematics of finance.

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## MGF1107: (GM) Explorations in Mathematics

Prerequisite: Intermediate Algebra. This course is an introduction to important and interesting ideas in mathematics. These ideas are designed to promote an appreciation of the subject. Topics may include Number Theory, Rates of Growth, Geometry, and Graph Theory.

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## MGF1113: (GM) Mathematics for Teachers I

This course provides an introduction to Problem-Solving Processes, Strategies for ProblemSolving Sets and Numeration, Whole Numbers, Integers, Rational Numbers, Geometric Shapes, and Measurement and Geometry.

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MGF1114: (GM) Mathematics for Teachers II
Prerequisites: MGF 1113. This course provides an introduction to Irrational Numbers and Real Numbers, Elementary Logic, Number Theory, Proportional Reasoning, Statistics and Analyzing Data, Probability, and Algebra and Coordinate Geometry.

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## MHF3202: (GM) Foundation of Mathematics

Prerequisite: MAC 2312. This course provides a transition to higher mathematics with strong emphasis on proof writing skills. Topics include a brief introduction to logic, methods of proof, including mathematical induction, sets, countability and cardinality, functions and relations. Topics may also be chosen from calculus, number theory and abstract algebra.

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## MHF3404: (GM) History of Mathematics

Prerequisite: MAC 2312. This course will cover the history of mathematical ideas on numbers, geometry, algebra, and calculus. Examples of mathematical concepts will be drawn from Egyptian, Mesopotamian, Hindu, Arabic, Chinese, and European civilizations. Biographies of mathematicians also will be included.

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## MTG3203: (GM) Geometry for Middle School Teachers

Prerequisites: 9 hours of college mathematics. This course focuses on a discovery approach to plane and solid geometry. Euclidean constructions, polygons, circles, polyhedra, tilings and symmetry will be investigated. Logical reasoning will be used to prove or disprove conjectures. This course cannot be used to fulfill a degree requirement in the Department of Mathematics and Statistics.

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## MTG4302: (GM) Elementary Topology

Prerequisites: MAC 2313 and MHF 3202. This course provides an introduction to topological spaces, metric spaces, continuity and homeomorphisms, connectedness, and compactness.

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## STA2014: (GM) Elementary Statistics for Health and Social Sciences

Prerequisite: MAC 1105 or MAC 1147. This course is an introduction to descriptive data analysis, probability, statistical distributions, confidence intervals, testing of hypotheses, regression, and correlation. Topics are selected to emphasize applications in health and social sciences. Technology will be integrated in this course. (Cannot be used to satisfy upper-level degree requirements by mathematics and statistics majors).

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## STA2023: (GM) Elementary Statistics for Business

Prerequisite: MAC 1105 or MAC 1147. This course is an introduction to descriptive data analysis, probability, statistical distributions, confidence intervals, testing of hypotheses, regression, and correlation. Topics selected to emphasize applications in a business environment. (Cannot be used to satisfy upper-level degree requirements by mathematics and statistics majors).

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## STA3032: (GM) Probability and Statistics for Engineers

Prerequisite: MAC 2312. This course is a survey of the basic concepts in probability and statistics with applications in electrical, mechanical, and civil engineering. Topics include probability, common discrete and continuous probability distributions, estimation and hypothesis testing, and simple regression. (Cannot be used to satisfy degree requirements by mathematics and statistics majors).

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## STA3163: (GM) Statistical Methods I

Prerequisite: MAC 1105 or MAC 1147 This is the first in a two-term sequence in applied statistical methods. This course focuses on descriptive and inferential statistics for means and proportions in one and two groups, simple linear regression with its diagnostics, and the oneway analysis of variance. The course incorporates technology and uses SAS for analysis of statistical data.

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## STA3164: (GM) Statistical Methods II

Prerequisite: STA 3163 This is the second in a two-term sequence in applied statistical methods. In this course, the focus is on more complex data models such as multiple regression, the higher-order analysis of variance, and logistic regression. Data analysis is carried out using the SAS program.

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Prerequisite: STA 4321 or STA 2014. This course is an introduction to the statistical design and analysis of experiments. Topics covered will include single factor, multi-factor, randomized block, Latin square, incomplete block, factorial, fractional factorial, and nested designs.

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STA4222: Design of Sample Surveys
Prerequisite: STA 4321 or STA 2014. This course is an introduction to the techniques used to conduct sample surveys. Topics covered include simple random sampling, systematic sampling and cluster sampling.

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## STA4321: (GM) Probability and Statistics

Prerequisite: MAC 2312 or the approval of the department
Description: This course will cover basic probability principles, random variables and univariate probability distributions, moments and an introduction to moment generating functions, introduction to sampling distributions and the Central Limit Theorem, and introduction to interval estimation and hypothesis testing.

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## STA4322: (GM) Statistical Theory

Prerequisites: MAC 2313 and STA 4321
Description: This course will cover multivariate probability distributions, dependent and independent random variables, moment generating functions, sampling distributions and the Central Limit Theorem, the theory of estimation, and the theory of hypothesis testing.

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## STA4445: (GM) Applied Probability Models

Prerequisites: STA 4321 and MAS 3105. Study of how probability theory can be applied to the study of phenomena in such fields as engineering, operations research, biological science, social sciences and management science. Topics include Markov processes, Poisson processes, queuing systems, renewal theory, reliability.

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STA4502: (GM) Nonparametric Methods in Statistics
Prerequisites: STA 4321, STA 2014 or STA 2023. This course studies topics such as statistical inference when the form of the parent population is unknown. The course topics include one-sample and two-sample tests based on ranks; Kolmogorov-Smirnov type tests; and rank correlations.

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## STA4504: (GM) Categorical Data Analysis

## Prerequisite: STA 3163

Description: The Categorical Data course is an introduction to the methods used to analyze data that are categorical rather than continuous in nature. The topics include description and inference using proportions and odds ratios, contingency tables, Poisson regression, logistic regression, and multi-category logit models.

## STA4664: Statistical Quality Control

Prerequisite: STA 2014 or STA 2023 or STA 3032 or STA 4321
Description: This course provides an introduction to the methods of statistical quality control. Topics covered include control charts, acceptance sampling, and experimental design.

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## STA4672: Probability Models with Applications to Actuarial Science

Prerequisite: MAC 2313, MAS 3105 and either STA 4321 or STA 3032
Description: Topics will emphasize applications to actuarial science and include: frequency and severity distributions, exponential distributions and Poisson processes, aggregate loss models, Markov chain models, Brownian motion. This course is recommended for students preparing to take the Society of Actuaries/Casualty Actuarial Society Preliminary Examinations.

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## STA4853: Statistical Techniques for Time Series and Forecasts

Prerequisites: STA 3163 or ECO 3411 This course is an introduction to the analysis of time series data using time-domain techniques. It begins with simple graphical and weighted moving average analyses that yield commonly-used decompositions and forecasts. More complex autoregressive integrated moving average (ARIMA) statistical models will be developed for stationary and non-stationary series, and for regression with time-series errors. These techniques will be applied to examples in a variety of disciplines, ranging from meteorology to economics. This course is recommended for students interested in an actuarial career.

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## STA4906: Directed Individual Studies

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Prerequisite: Variable.
Description: This course may be repeated for a total of 12 credits with permission of the department.

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## STA4930: Special Topics in Statistics

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Prerequisite: Permission of the department.
Description: This course will cover topics in statistics selected by the instructor.
Repeatability: The course may be repeated for a total of 12 credits with permission of the department.

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## STA4935: Seminar in Statistics

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Prerequisite: Permission of the department.
Description: This course may be repeated for a total of 12 credits with permission of the department.

## STA4945: Capstone Experience in Statistics

Prerequisite: Senior standing and permission of the Department
Description: The instructor will determine the structure of the course, choosing among studentconducted course projects, student research, and/or seminars. The course will result in a student paper and presentation.

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## Undergraduate Courses

## Arts and Sciences

## Course Descriptions:

## IDS1930: Introduction to Venture Studies: First Year Seminar

Introduction to Venture Studies: First Year Seminar (VSFYS) applies a VS-format to the academic teaching of discipline-specific concepts, guided by faculty within the respective discipline, and is directed toward first term students. This format emphasizes techniques for a successful transition to UNF, encourages the development of critical thinking skills through the pedagogy of Reflective Judgment, and includes an introductory community-based learning assignment. Whereas each VSFYS course has a different subject, the courses share identical methodology in their delivery.

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## IDS2931: Venture Studies: Community Based Special Topics <br> v. 3-

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Variable Topics in Community Based Learning. This VS-formatted General Education class is open to all students. Regardless of the discipline-specific topic covered, the course continues to develop critical thinking skills through the pedagogy of Reflective Judgment and continues to apply classroom learning to real world situations through a deeper community-based learning focus.

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IDS3951: (GW) Venture Studies Threshold Project

The Threshold Project, the third part of the Venture Studies Program, is an opportunity for students to demonstrate their facility with Reflective Judgment, the mode of intellectual engagement that underwrites the Program. Threshold Project courses will explore a significant and complex question raised within the student's Venture Studies course work or within the student's General Education experience. The project will demonstrate that the student understands the multidimensional nature of any significant question, and will point toward future study necessary to more fully understand the complexity of the question. The project is not intended to answer the question, but to explore the dimensions and implications of the question from the perspective of at least two disciplines. Students positioned at this threshold between Venture Studies and more specialized work within a major will make explicit their recognition that any seemingly complete answer to a question is always situated within the terms and limits of a discipline or a particular world view, and they are bidden to be both expert within their chosen field's terms and aware of their limits. Gordon Rule additional writing credit.

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## Undergraduate Courses

## Military Science

## Course Descriptions:

## MSL1001: Leadership and Personal Development

Co-requisite: MSL 1001L This course introduces Cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal development of life skills such as critical thinking, goal setting, time management, physical fitness, and stress management relate to leadership, officership, and the Army profession. Lessons are designed to maximize participation, inspire intellectual curiosity, stimulate selfstudy and encourage team building through military/life skills. Each student must also register for and attend a two-hour weekly leadership laboratory (MSL 1490L). Students not on scholarship who enroll in this basic course do not incur any service obligation to the US Army.

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MSL1001L: Freshman Leadership Laboratory I

Co-requisite: MSL 1001 The Freshman Leadership Laboratory consists of a two-hour block of instruction directly supporting freshman classroom instruction. Cadets implement the initial classroom lessons in a real-world setting to form the building blocks of the Army's values, physical fitness, leadership and officership. Participation in at least one weekend field training exercise and two army physical fitness tests are required.

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## MSL1002: Introduction to Tactical Leadership

Co-requisite: MSL 1002L This course covers leadership fundamentals such as setting direction, problem solving, listening, presenting briefs, providing feedback, and using effective writing skills. Cadets explore dimensions of leadership values, attributes, and competencies in the context of practical, hands-on, and interactive exercises. Cadre role models and the building of stronger relationships among the Cadets through common experience and practical interaction are critical aspects of the MSL 1020 experience. Students must register for and attend a two-hour, weekly leadership laboratory (MSL 1492L). Students not on scholarship who enroll in this basic course do not incur any service obligation to the US Army.

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MSL1002L: Freshman Leadership Laboratory II

Co-requisite: MSL 2101L This course explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army Leadership Requirements Model (trait and behavior theories). Cadets practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs. Focus is on continued development of the knowledge of leadership values and attributes through an understanding of Army rank, structure, and duties, and basic aspects of land navigation and squad tactics. Case studies provide tangible context for learning the Soldier?s Creed and Warrior Ethos as they apply in the Contemporary Operating Environment (COE). Students must register for and attend a two-hour, weekly leadership laboratory. Students not on scholarship who enroll in this basic course do not incur any service obligation to the US Army.

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## MSL2101L: Sophomore Leadership Laboratory I

Co-requisite: MSL 2101 MSL 2101 explores the dimensions of creative and innovative tactical leadership strategies and styles by examining team dynamics and two historical leadership theories that form the basis of the Army Leadership Requirements Model (trait and behavior theories). Cadets practice aspects of personal motivation and team building in the context of planning, executing, and assessing team exercises and participating in leadership labs. Focus is on continued development of the knowledge of leadership values and attributes through an understanding of Army rank, structure, and duties, and basic aspects of land navigation and squad tactics. Case studies provide tangible context for learning the Soldierâ $€^{\mathrm{TM}}$ S Creed and Warrior Ethos as they apply in the Contemporary Operating Environment (COE). Students not on scholarship who enroll in this basic course do not incur any service obligation to the US Army.

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MSL2102: Foundations of Tactical Leadership

Co-requisite: MSL 2102L This course examines the challenges of leading tactical teams in the complex COE. The course highlights dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations. This course provides a smooth transition into MSL 3201. Cadets develop greater self-awareness as they assess their own leadership styles and practice communication and team-building skills. COE case studies give insight into the importance and practice of teamwork and tactics in realworld scenarios. Students must register for and attend a two-hour, weekly leadership laboratory. Students not on scholarship who enroll in this basic course do not incur any service obligation to the US Army.

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Co-requisite: MSL 2102 The Sophomore Leadership Laboratory II consists of a two-hour block of instruction that directly supports classroom instruction. Cadets implement the initial classroom lessons in a real world setting, MSL 2102 examines the challenges of leading tactical teams in the complex Contemporary Operating Environment. The course highlights
dimensions of terrain analysis, patrolling, and operation orders. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations. MSL 2102 provides a smooth transition into MSL 3201. Cadets develop greater self-awareness as they assess their own leadership styles and practice communication and team-building skills. COE case studies give insight into the importance and practice of teamwork and tactics in real-world scenarios. Students not on scholarship who enroll in this basic course do not incur any service obligation to the US Army.

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MSL3201: Adaptive Team Leadership

Co-requisite: MSL 3201L MSL 3201 challenges Cadets to study, practice, and evaluate adaptive leadership skills as they are presented with the demands of preparing for the ROTC Leader Development and Assessment Course (LDAC). Challenging scenarios related to smallunit tactical operations are used to develop self-awareness and critical-thinking skills. Cadets receive systematic and specific feedback on their leadership values, attributes, skills, and actions.

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MSL3201L: Leadership and Problem Solving Laboratory

Co-requisite: MSL 3201 This leadership laboratory course provides practical application of topics covered in MSL 3201. This lab challenges cadets to study, practice, and evaluate adaptive leadership skills as they are presented with the demands of preparing for the ROTC Leader Development and Assessment Course (LDAC). Challenging scenarios related to smallunit tactical operations are used to develop self-awareness and critical-thinking skills. Cadets receive systematic and specific feedback on their leadership values, attributes, skills and actions.

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## MSL3202: Leadership in Changing Environments

Co-requisite: MSL 3202L MSL 3202 uses increasingly intense situational leadership challenges to build cadet awareness and skills in leading tactical operations. Having learned squad-level tactics in MSL 3201, cadets now learn to lead up to platoon level. Cadets review aspects of combat, stability, and support operations. They also conduct military briefings and develop proficiency in garrison operation orders. The focus is on exploring, evaluating, and developing skills in decision making, persuading, and motivating team members in the COE. MSL 3202 cadets are evaluated on what they know and do as leaders as they prepare to attend LDAC.

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MSL3202L: Leadership and Ethics Laboratory

Co-requisite: MSL 3202 This leadership laboratory course provides practical application of topics covered in MSL3202. This lab challenges Cadets to study, practice, and evaluate adaptive leadership skills as they are presented with the demands of preparing for the ROTC Leader Development and Assessment Course (LDAC). Challenging scenarios related to smallunit tactical operations are used to develop self-awareness and critical-thinking skills. Cadets receive systematic and specific feedback on their leadership values, attributes, skills, and actions.


#### Abstract

Prerequisite: Requires completion of MSL 3201, MSL 3202 or professor of Military Science permission Co-requisite: MSL 4301L This course provides practical exercise in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing leadershipperformance feedback to subordinates. Cadets are given situational opportunities to assess risk, make sound ethical decisions, and provide coaching and mentoring to fellow ROTC Cadets. MSL IV Cadets are measured by their ability to give and receive systematic and specific feedback on leadership abilities using the Socratic model of reflective learning. Cadets at the MSL IV level analyze and evaluate the leadership values, attributes, skills, and actions of MSL III Cadets while simultaneously considering their own leadership skills. Attention is given to preparation for success at BOLC II and III, and the development of leadership abilities.


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## MSL4301L: Leadership and Management Laboratory

Prerequisite: Requires completion of MSL 3201, MSL 3202 or professor of Military Science permission
Co-requisite: MSL 4301 This laboratory enables the application of the lessons learned in the classroom in a practical environment. It develops proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff, and providing leadershipperformance feedback to subordinates. Cadets are given situational opportunities to assess risk, make sound ethical decisions, and provide coaching and mentoring to fellow ROTC Cadets. MSL IV Cadets are measured by their ability to give and receive systematic and specific feedback on leadership abilities using the Socratic model of reflective learning. Cadets at the MSL IV level analyze and evaluate the leadership values, attributes, skills, and actions of MSL III Cadets while simultaneously considering their own leadership skills. Attention is given to preparation for success at BOLC II and III, and the development of leadership abilities.

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## MSL4302: Leadership in a Complex World

Prerequisite: MSL 4301
Co-requisite: MSL 4302L This course explores the dynamics of leading in the complex situations of current military operations in the COE. Cadets examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. They also explore aspects of interacting with nongovernmental organizations, civilians on the battlefield, and host nation support. The course places significant emphasis on preparing cadets for their first unit of assignment. It uses case studies, scenarios, and ?What Now, Lieutenant?? exercises to prepare cadets to face the complex ethical and practical demands of leading as commissioned officers in the United States Army.

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## MSL4302L: Officership Laboratory

Prerequisite: MSL 4301
Co-requisite: MSL 4302 This laboratory enables the practical application of lessons learned in the MSL 4302 classroom. It explores the dynamics of leading in the complex situations of current military operations in the COE. Cadets examine differences in customs and courtesies, military law, principles of war, and rules of engagement in the face of international terrorism. They also explore aspects of interacting with nongovernmental organizations, civilians on the battlefield, and host nation support. The course places significant emphasis on preparing cadets for their first unit of assignment. It uses case studies, scenarios, and ?What Now, Lieutenant?? exercises to prepare cadets to face the complex ethical and practical demands
of leading as commissioned officers in the United States Army.
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## MSL4905: Independent Study <br> v. 1-

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Prerequisite: Requires departmental permission. Enrollment is determined by the Professor of Military Science This course introduces students to fundamental leadership styles and their effectiveness in and out of the work place; Students will be able to mend growing problems and work to further solidify unity in the environment; Students will also work on military counseling and the methods for which it is used.

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## MSL4941: Advanced Leader Training

Leadership development and assessment course is the army's 5-week leader internship conducted at Fort Lewis, Washington from June through August. The instructor places each cadet in a variety of leadership positions, many of which simulate stressful combat situations. Cadets are evaluated by platoon tactical officers and NCOs. Training is organized into separate committees in a tiered structure, including basic military skills, leadership development, tactical training, basic rifle marksmanship and situational training exercises. Although this course is not conducted on campus grading will be conducted by university faculty.

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## Undergraduate Courses

## Biology

Course Descriptions:

## BCH4024: Molecular Biology and Biochemistry

Prerequisite: PCB 3023C
Description: This course offers an introductory survey of the structure, functional properties, synthesis, and degradation of amino acids, proteins, carbohydrates, lipids, and nucleic acids.

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BCH4024L: Molecular Biology and Biochemistry Laboratory
Prerequisite: PCB 3023C
Co-requisite: BCH 4024
Description: This laboratory course will introduce students to modern molecular biology and biochemistry techniques.
Course Fees: \$51.93
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## BOT2010C: Botany

Prerequisite: BSC 1010C. This course is a study of plant anatomy, morphology, physiology, and diversity. There will be three credits lecture and one credit (3 hours) of laboratory in the course. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## BOT3151C: Local Flora

Prerequisites: BSC 1010C, BSC 1011C, and BSC 2012C. Study of the morphological features of vascular plants and practice in identification of plants. Elementary ecology of principle types of plant communities of Northeast Florida. Emphasis on native plants. Three hours lecture, two hours laboratory, two hours field work. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## BOT3712C: Plant Systematics and Evolution

Prerequisites: BSC 1010C, BSC 1011C, and BSC 2012C. In this course students will study plant evolution, classification, and identification. Plant species concepts and breeding systems will also be studied. Comparisons will be made between traditional methods of classification and the more modern methods that utilize molecular biology and numerical taxonomy. There will be three credits lecture and one credit (4 hours) laboratory in this course. (A laboratory fee of $\$ 51.93$ will be assessed.)

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Prerequisite: BSC 2012C This course is designed to introduce students to marine plants in the pelagic open-ocean and coastal environments. Primary focus will be on the ecology, biochemistry, physiology, and life history strategies of both phytoplankton and benthic marine algal communities. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## BOT4503C: Plant Anatomy and Physiology

Prerequisites: BSC 1010C, BSC 1011C, and BSC 2012C. This course will investigate the anatomy, physiology and major biochemical pathways of the higher plants. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## BSC1005C: Principles in Biology

This course is designed to introduce students to the science life. This survey will cover topics ranging from the molecular components of the cell, to the interaction of organisms with their environment. The goal of this course is to familiarize students with diverse components of life, provide an opportunity for students to work in the laboratory, as well as introduce the majors areas of study within the discipline.(A laboratory fee of $\$ 51.93$ will be assessed.)

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## BSC1010C: General Biology I

An introduction to biology with emphasis on the cellular level. Three hours lecture, four hours laboratory. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## BSC1011C: General Biology II

Prerequisite: BSC 1010C or equivalent. This course examines the evidence for evolution by common descent, the mechanisms of biological change, and the diversity, phylogenetic classification, anatomy, and physiology of organisms from microbes to plants. There will be three hours or lecture and one hours of laboratory in this course.(A laboratory fee of $\$ 51.93$ will be assessed.)

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BSC1930: Current Applications in Biology
In this course biological principles and research are applied to modern life. Topics will vary from semester to semester.

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## BSC2012C: General Biology III

Prerequisites: BSC1010C, BSC1011C This course is designed to introduce students to the diversity and evolution of fungi and animals and the anatomy and physiology of representative taxa. During this course we will look at the tremendous biodiversity that results from the basic building blocks described in General Biology I and II. We will conduct an overview of the major groups of fungi and animals, focusing on unique adaptations and evolutionary origin. We will then examine the development of organs and organ systems in representative groups to provide a comparative view of animal anatomy and physiology. The laboratory involves experimentation with living animals and/or dissection of preserved animals. (A laboratory fee of $\$ 51.93$ will be assessed.)

This is an introduction to the science of biology with emphasis on the structures and functioning of the human organism. Three hours lecture, four hours laboratory. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## BSC2085C: Human Anatomy and Physiology I

Prerequisite: Students must receive a "B" grade or higher in BSC 1010C (General Biology I) for all majors except Biology and Physical Education. This course includes units concerning the organization of the human body, support and movement, the nervous system and special senses, and the endocrine system. The laboratory involves dissection of preserved animals. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## BSC2086C: Human Anatomy and Physiology II

Prerequisite: BSC 2085C. Students must receive a "B" grade or higher in BSC 2085C (Human Anatomy \& Physiology I) for all majors except Biology and Physical Education. This course is a continuation of BSC 2085C. The course includes units concerning the cardiovascular and respiratory systems, lymphatic and immune systems, digestion and metabolism, the urinary system and fluid and electrolyte balance, and reproduction and development. The laboratory involves dissection of preserved animals. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## BSC2930: Selected Topics - Biology

Prerequisite: Permission of instructor. Variable topics in biology appropriate for students in their freshman or sophomore years.

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BSC3052: Conservation Biology
Prerequisite: BSC 1010C, BSC 1011C, BSC 2012C. This course will investigate the major causes responsible for declining global biodiversity and its implications.

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## BSC3053: Health Effects of Environmental Pollutants

Prerequisites: BSC 1010C, BSC 1011C, BSC 2012C. This course is about the environment, specifically about the substances called pollutants and how they affect the living organisms on this planet. This course will examine the major groups of pollutants in terms of their sources, levels in the environment and their actual effect on living systems. Three hours lecture.

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## BSC3057: Introduction to Environmental Studies

This course represents the core foundation course for the interdisciplinary Environmental Studies minor. Topics cover a broad range of environmental issues in order to lay the foundation for the understanding of complex environmental issues and the interactions
between human behavior, technology, and the natural environment. Course content provides an introduction to issues of biodiversity, appreciating human impact, principles of sustainability, biotechnology, resource conservation, legal and policy issues, ethics, and ecopsychology. (This course cannot be used by biology majors to satisfy degree requirements.)

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## BSC3263: Marine Biology

Prerequisites: BSC 1010C, BSC 1011C, BSC 2020C. This course will offer an introduction to living in a marine environment, and will focus on the delivery and special adaptations of marine fauna. The various marine ecosystems will also be discussed, and human impacts on marine systems will also be covered. This course is aimed at the biology majors who wish to learn more about organismal diversity and adaptation.

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#### Abstract

BSC4022: Biology of Aging Prerequisite: PCB 4713C Description: This course will offer students an understanding of why aging occurs and the mechanisms by which aging occurs. A combination of lecture and discussion of primary papers will be used. Students will be introduced to studies using simple experimental models to approach the underlying cellular bases for age-related deterioration. In particular, the roles of mitochondria, chromosomes, nutrient signaling, and reproduction will be explored.


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## BSC4054: Environmental Toxicology

Prerequisites: CHM 2045C, CHM 2046C, BSC 1010C, BSC 1011C, and BSC 2012C. This course involves the study of toxic substances occurring in both man-made and natural environments. Subjects discussed in Environmental Toxicology will range from the effects of environmental toxins on individual organisms to global implications of the toxicology of widely used organic and inorganic pollutants.

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## BSC4842: Senior Seminar Preparation

Prerequisite: A minimum of 11 credit hours of biology courses of 3000 level or above This course is designed to prepare students to take Senior Seminar Practicum by having them explore potential topics of independent research (field, laboratory or library based). Students will learn how to conduct extensive literature reviews and be trained in various modes of written and oral scientific communication. Professional development training in the form of development of a curriculum vitae and discussion of application to graduate and professional schools will also be included.

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## BSC4870: Biological Basis of Pharmacology

Prerequisites: PCB 4713C or BSC 2086C This course focuses on the biological mechanisms of drug absorption, distribution, metabolism, excretion, and mechanisms of action with an emphasis on cellular responses to drugs. Students will learn the basic mathematical principles of pharmacokinetics and receptor binding as well as the relationship between drug concentration and effects. The mechanisms of action and side effects of the major classes of drugs will be covered as well as background information on the pathological conditions they treat.


#### Abstract

BSC4905: Directed Independent Study in Biology

Prerequisite: Permission of instructor. Students will participate in a research investigation under the supervision of an instructor. One credit hour will require a minimum of 4 hours of research activity per week, although specific time requirements will vary with the instructor. This course may be repeated for a total of 9 credits.


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BSC4921: Biology Lecture Series
This course allows undergraduate students to explore current areas of biological research by listening to scientific lectures. Seminar topics will vary on a weekly basis and will be given by guest lecturers or UNF faculty. Topics covered may include cell biology, genetics, evolution, ecology, and conservation biology.

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## BSC4930: Selected Topics in Biology

Prerequisite: Permission of instructor. This course deals with various recent advances in biology. May be repeated for a total of 12 credits.

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## BSC4940: Internship in Applied Biology

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Prerequiste: Permission of instructor Students, supervised by faculty, will intern for companies, agencies or other organizations in an area that reflects their career interests. This course may be repeated for up to eight credits but only four credits may be used in the major elective area. Each credit hour will equal at least four hours per week of internship activity throughout the semester.

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## BSC4947: Senior Seminar Practicum

Prerequisites: BSC 4842 and permission of instructor Senior Seminar Practicum is the successional course to Senior Seminar Preparation. In this course students will present their topics of independent research (field, laboratory or library based) in a written and oral format.

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FAS4354: Coastal Fisheries Management
Prerequisite: BSC 2012C
Description: This course is designed to introduce students to quantitative fish population dynamics and the management of coastal living resources. The primary focus will be on the physical, biological, and human factors that regulate coastal fish populations, methods for estimating life history parameters, development of quantitative models to assess fishery stocks, and understanding the implications of management decisions on fishery stakeholders.

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## Organizations

Description: This course will focus on the interdisciplinary analysis of leadership and management concepts, managerial skills and techniques, fiscal responsibility, human resource development, outcomes assessment, building strategic alliances in changing environments, and organizational ethics.

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IHS4938: Senior Seminar for Medical Lab Sciences

Description: This course will synthesize career and life experiences across disciplines, via exploration of interdisciplinary issues and civic projects.

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## MCB2010C: Microbiology

Prerequisites: BSC 1010C and CHM 2045C. Students must receive a "B" grade or higher in BSC 1010C (General Biology I) for all majors except Biology. The spectrum of the microbial world with emphasis on cell structure, reproduction, and physiology. Three hours lecture, four hours laboratory. (A laboratory of $\$ 51.93$ will be assessed.)

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MCB3020C: Microbial Biology
Prerequisites: BSC 1010C, BSC 1011C, BSC 2012C, CHM 2045C and CHM 2046C. The diversity of the microbial world will be examined by characterizing requirements, growth and metabolism of representative microbes. This course will introduce microbial genetics symbiotic associations, immunology and pathogenicity. This is intended for science majors as an introductory course in microbiology. Three hours lecture, four hours laboratory. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## MCB3203: Pathogenic Bacteriology

Prerequisite: BSC 2012C and MCB 3020C or MCB 2010C
Description: This course will develop into the biological basis of infectious disease. It will emphasize bacterial infection, the principles of the host-parasite relationship, the pathogenic characteristics and virulence factors of microorganisms, and the various modes of action of antimicrobial agents. Three hours lecture.

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## MCB3212: Biological and Medical Aspects of the Acquired Immune Deficiency Syndrome

Prerequisites: BSC 1010C or permission of instructor. This course offers information on the biology of human defense and failure of that defense which results in HIV disease/AIDS. Topics include the biology and immunology of the AIDS virus, its opportunistic infections, clinical reasons for therapy failure, prevention, prevalence in U.S. and other countries and HIV testing.

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Prerequisite: PCB 3023C or by permission of the instructor This laboratory-intensive course exposes students to modern molecular biology techniques. Students will receive instruction related to recombinant DNA and protein technologies. Experimental design and data analysis will also be addressed. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## MCB4503: Virology Lecture

Prerequisites: PCB 3023C, MCB 2010C or MCB 3020C A structure/function approach to understanding the virus lifecycle will be used to investigate animal, bacterial, plant and insect viruses. Focus on the history of Virology, virus structure, genetics, biocontainment and current topics will assist in the understanding of the nature of viruses and unconventional agents. Three hours lecture.

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## MCB4603C: Microbial Ecology

Prerequisites: BSC 1011C, PCB 3063C This course will explore the ecological and evolutionary roles of microbes in a variety of ecosystems. We will discuss the diversity of microbes in natural settings and how different evolutionary lineages have adapted to their specialized roles. To that end, we will discuss microbial colonization, recruitment, succession and senescence, and how different communities and guilds respond to changes in their environment. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## MLS3038: Essentials of Medical Laboratory Science

Description: This course will introduce students to the principles and practices of Medical Laboratory Science. Topics will include safety, phlebotomy, automation, laboratory mathematics, laboratory information systems, quality assurance, management, education, ethics, professional roles, accreditation, and regulation.

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## MLS3220: Biological Fluid Analysis

Description: This course introduces students to the theory and practices underlying the laboratory analysis of various biological fluids. Students study microscopic and physiochemical testing and correlate laboratory and clinical data to health and disease.

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## MLS4191: Molecular Diagnostics

Description: This course will provide an overview of nucleic acid structure, gene expression, and genetic disease. Proper collection and processing of blood, bone marrow, and body fluids for molecular testing will be covered. Fundamentals of DNA and RNA isolation, amplification, hybridization, and analysis will also be discussed.

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pathophysiology. Theory and application of analytical techniques used to diagnose and monitor hematological disease and disorders of hemostasis will be emphasized.

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## MLS4460C: Diagnostic Bacteriology

Description: This course will provide an advanced comprehensive study of bacteria that influence human health and disease. The identification, diagnosis, microbial attributes, mechanisms that facilitate infectious disease, and treatment will be emphasized.

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## MLS4462: Diagnostic Virology, Mycology and Parasitology

Description: This course will focus on the study of viruses, fungi, and parasites that influence human health and disease. The identification, diagnosis, microbial attributes, mechanisms that facilitate infectious disease, and treatment will be emphasized.

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## MLS4505: Clinical Immunology

Description: This course integrates basic and clinical immunology featuring clinical presentation, immunopathological features, diagnosis, and treatment of immunologically related diseases. In addition, diagnostic techniques and procedures utilized in a clinical immunology laboratory will be covered.

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## MLS4550C: Immunohematology and Transfusion

Description: This course integrates theoretical concepts and applications related to blood donation process, transfusion therapy, and blood group system biochemistry, genetics, and serology.

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## MLS4627: Clinical Biochemistry

Description: This course will focus on the relationship and application of biochemistry to the diagnosis, prognosis, and treatment of human disease. The theoretical principles and study of techniques for proteins, enzymes, carbohydrates, lipids, electrolytes, nitrogen metabolites, inborn errors of metabolism, and toxicology will be emphasized.

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## MLS4820: Clinical Biochemistry Practicum

Description: The focus of this course will be on the advanced practical experience in a clinical chemistry laboratory. The emphasis will be on chemistry instrumentation, immunochemical analysis, electrophoresis, blood gases, and toxicology.

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Description: This course will focus on the advanced practical experience in a clinical microbiology laboratory utilizing diagnostic techniques in the identification of pathogenic bacteria, viruses, parasites, and fungi.

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## MLS4822: Clinical Hematology Practicum

Description: This course will provide an advanced practical experience in a clinical hematology/ hemostasis laboratory including performance of diagnostic procedures and application of knowledge with emphasis on clinical correlation.

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MLS4823: Clinical Immunohematology Practicum

Description: This course will provide an advanced practical experience in a clinical immunohematology laboratory with perfusion service including compatibility testing, blood transfusion procedures, and antibody detection and identification.

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## MLS4826: Clinical Immunology Practicum

Description: This course will focus on the advanced practical experience in a clinical immunology laboratory including diagnostic serological techniques with emphasis on clinical correlation of infectious diseases.

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## OCE3008: Oceanography

Prerequisite: BSC 2012C This course will provide an introduction to the geological, physical, chemical, and biological aspects of the ocean. The role of the ocean in the global system will also be addressed. Current topics such as sea level rise and coastal erosion impacts on marine environments surrounding Florida will be discussed.

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## OCE4930: Special Topics in Marine Science

Topics will vary from time to time but may include estuarine biology, marine chemistry and mariculture.

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PCB3023C: Molecular and Cell Biology
Prerequisites: BSC 1010C, BSC 1011C, BSC 2012C, CHM 2210, CHM 2210L. A study of cell structure and function with emphasis on the properties of intracellular organelles and their molecular constituents. Three hours lecture, four hours laboratory. (A laboratory fee of \$51.93 will be assessed.)

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Prerequisites: BSC 1010C, BSC 1011C, BSC 2012C This course will focus on the basic principles involved in the functioning of ecological systems, with special reference to the major terrestrial and aquatic ecosystems of Florida. The laboratory involves experimentation with living animals. The course includes three hours of lecture and four hours of laboratory and field work. (A laboratory fee of $\$ 51.93$ will be assessed.)

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PCB3063C: Genetics
Prerequisites: BSC 1010C, BSC 1011C, BSC 2012C, CHM 2210 Principles of classical and molecular genetics revealed by studies on nuclear and extanuclear inheritance. Three hours lecture, four hours laboratory. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## PCB4067: Molecular Basis of Inheritance

Prerequisite: PCB 3063C This course will detail the molecular basis of inheritance in both prokaryotes and eukaryotes. Topics will include the structure and organization of DNA, plus DNA replication, repair, and recombination. Transcription, translation, and processing of gene products will be covered. A major emphasis will be the regulation of these molecular processes.

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## PCB4233: Immunology

Prerequisite: PCB 3023C. Introduction to the major concepts in modern basic immunology with an emphasis on the relevant immunological mechanisms in pathogenesis of different diseases and pathological conditions. Emphasizes the transposition of basic science information into clinical problems through use of immunopathological concepts. Three hours lecture.

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## PCB4234: Biology of Cancer

Prerequisite: Either PCB 3023C or PCB 3063C. This course will provide current information on the molecular, cellular, and genetic changes associated with cancer cells. Cellular and environmental causes of cancer will be discussed, and treatment options will be covered. Students should gain a thorough understanding of cancer at the cellular level by the conclusion of the course.

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## PCB4253C: Developmental Biology

Prerequisites: PCB 3023C, PCB 3063C. A study of gametogenesis, fertilization, and embryogenesis at the descriptive and molecular levels and of related developmental problems such as regeneration and carcinogenesis. Three hours lecture, four hours laboratory. (A laboratory fee of $\$ 51.93$ will be assessed.)

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inland waters. The current definition of inland water includes lakes, streams, estuaries, and wetlands. Subjects include physical, chemical and biological limnology. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## PCB4674: Evolution

PREREQS: PCB 3043C, PCB 3063C or permission of the instructor. Evolution is the unifying theory of biology, linking fields as diverse as biochemistry and ecology, genetics and anatomy. In this course we will investigate both the wealth of evidence for evolution by common descent and the genetic and ecological mechanisms by which evolution occurs in natural populations. In addition we will cover the history of evolutionary biology from pre-Darwinism views to present day controversies, and the key events that have lead to our current understanding of the subject.

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## PCB4713C: Physiology

Prerequisites: PCB 3023C, PHY 2054, and PHY 2054L This course focuses on the functional activities and interactions of cells, tissues and organs, with emphasis on respiration, excitation, transport phenomena, and control mechanisms. The course includes three hours of lecture and four hours of laboratory. The laboratory involves experimentation with living animals and/or dissection of preserved animals. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## PCB4805: Endocrinology

Prerequisite: PCB 3023C This course will provide and introduction to the role that hormones play in regulating vertebrate physiology with special emphasis on human systems. Students will learn about general concepts of endocrinology, as well as the relevant mechanisms that lead to endocrine disorders in humans.

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## PCB4843: Cellular and Molecular Neuroscience

Prerequisites: PCB 3023C Molec and Cell Bio or by permission of the instructor. This course is an overview of structure-function relationships in the nervous system at the molecular level. Topics include development of neurons, neuron-specific gene expression, mechanisms of neuronal plasticity in learning and memory, synaptic release, molecular biology of neurological disorders, and molecular neuropharmacology.

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## ZOO2203C: Invertebrate Zoology

Prerequisite: Zoology or equivalent This course represents a survey of the invertebrate phyla ranging from the protozoa through the lower chordata, emphasizing comparative aspects of morphology, embryology as well as ecology and distribution. This course includes experimentation with living and/or preserved animals. Three hours lecture, four hours laboratory. (A laboratory fee of $\$ 51.93$ will be assessed.)

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Prerequisites: BSC 1010C, BSC 1011C, and BSC 2012C. This course will compare the evolutionary morphology of the Chordata. The lecture will be supplemented with the laboratory

## ZOO3733C: Human Structure and Function

Prerequisite: BSC 2012C A systematic approach will be used to study the structural and functional anatomy of the human body. Tissues, organs, and internal processes of systems (i.e. circulatory, excretory, and reproductive) will be examined in a three hour lecture. Normal and abnormal functioning of body processes and associated disorders and diseases will be discussed. Case studies will provide opportunity for integration of studied material. A corresponding four hour laboratory will accompany the lecture to provide visual anatomical identification, including dissections and microscopic slides. This course includes dissection of preserved animals. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## ZOO4208C: Coastal Invertebrate Biology

Prerequisite: PCB 3043C This course will include an examination of the diversity, ecology, and evolutionary history of aquatic invertebrates in coastal habitats. Current topics such as sea level rise and pollution of aquatic habitats will be discussed. This course includes experimentation with living and/or preserved animals. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## ZOO4234C: Parasitology

Prerequisites: BSC 1010C, BSC 1011C, BSC 2012C Anatomy, physiology, life cycles, epidemiology and control of protozoan and helminth parasites that affect vertebrates. Three hours lecture, four hours laboratory. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## ZOO4454C: Ichthyology

Prerequisites: BSC 1011C, BSC 2012C Ichthyology is the study of fishes. Topics covered during this course include anatomy, physiology, taxonomic diversity, life history, and ecology of fishes. Different techniques for the study of fishes will be introduced during the laboratory. The laboratory involves experimentation with living animals and/or dissection of preserved animals. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## ZOO4462C: Herpetology

Prerequisites: BSC 1010C, BSC 1011C, and BSC 2012C This course focuses on the natural history of amphibians and reptiles with emphasis on systematics and evolutionary adaptations. The course includes three hours of lecture, two hours of laboratory and two hours of field work. This course includes dissection and experimentation on live and/or preserved animals. (A laboratory fee of $\$ 51.93$ will be assessed.)

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ZOO4485: Biology of Marine Mammals
Prerequisites: BSC 2012C and PCB 3043C This course focuses on the biology and ecology of marine mammals, with an emphasis on understanding how marine mammals are adapted to their environment. Selected topics would include taxonomy, zoogeography, anatomy,

## Prerequisites: BSC 2012C and PCB 3043C

Co-requisite: ZOO 4485 This course is designed to provide students with hands on experience in techniques used to study marine mammal biology. Selected topics will include taxonomy, anatomy, physiology, behavior, ecology, conservation and management of marine mammals. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## ZOO4715C: Introduction to Canine Anatomy

Prerequisites: BSC 1010C, BSC 1011C,BSC 2012C In this course we will study the dog as a model of mammalian anatomy. The course has obvious appeal to students pursuing studies in veterinary medicine, but those interested in other pre-professional fields will definitely benefit. The emphasis will be heavily on laboratory dissections, which are held three times a week, and will be supplemented with two lectures a week. The dissection approaches are often those taken for surgery, and many structures not located in previous courses will be found. Students will work in groups of up to four, and, to assure that all students are actively involved, dissection duties will be rotated daily within groups. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## ZOO4753C: Histology

Prerequisites: BSC 1010C, BSC 1011C, BSC 2012C This course focuses on the structure and function of cells, tissues and organs. Students will learn to identify all major cell types and their functions in the human body. Lecture material will be integrated in the lab through histological diagnostics at the light microscope and preparation of microscope slides. The laboratory involves experimentation with living animals and/or dissection of preserved animals. The course includes three hours of lecture and four hours of laboratory. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## ZOO4823C: General Entomology

Prerequisites: BSC 1010C, BSC 1011C, BSC 2012C This course will investigate the taxonomy, structure, physiology and ecology of the major evolutionary lineages of the insects. This course includes experimentation with living and/or preserved animals. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## Undergraduate Courses

## Music

## Course Descriptions:

## HUM3524: (FC) Great Age of Vienna

Description: This course is an examination of the music and art of Vienna during the 18th and 19th centuries against the cultural and social background of this city which reigned as one of the artistic centers of the world. This is a survey course taught in lecture format.

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## MUC2211: Music Composition I

Prerequisite: Permission of Instructor
Description: In this class, students will be introduced to the creative uses of musical material, traditional musical forms, development procedures and performance resources. Various short works of twentieth century composers will be used as model.

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## MUC2221: Music Composition II

Prerequisite: Successful completion of Music Composition I (MUC 2211). In this class the student will further examine the creative uses of musical material, traditional musical forms, development procedures and performance resources. Various short works of twentieth century composers will be used as models for student work.

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## MUC3231: Music Composition III

Prerequisites: Successful completion of Music Composition II (MUC 2221). In this class students will further examine the creative uses of musical material, the various possibilities of musical form, developmental procedures and performance resources. Individual projects will provide a focus for the semester's work.

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## MUC3232: Music Composition IV

Prerequisites: Successful completion of Music Composition III (MUC 3231). In this class the student will further examine the creative uses of musical material, the various possibilities of musical form, development procedures and performance resources. Individual projects will provide a focus for the semester's work.

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Description: This course is a study of jazz composition techniques and processes employed by various successful jazz composers. Special emphasis will be placed on the analysis of works by small group composers such as Horace Silver, Herbie Hancock, Wayne Shorter, and Joe Henderson. Students will compose and perform their own original compositions throughout the semester. This course can be taken as a free elective in the B.M. Jazz Studies program of study.

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## MUC4241: Music Composition V

Prerequisite: Successful completion of Music Composition IV (MUC 3232). This class is for the advanced composition student. The emphasis at this level will be on technical excellence, musical sophistication and originality. It is expected that students in this class will work on larger, multi-movement projects. Performance of finished works on Performance Lab or in special recital is encouraged.

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## MUC4242: Music Composition VI

Prerequisite: Successful completion of Music Composition V (MUC 4241). This class is for the advanced composition student. The emphasis at this level will be on technical excellence, musical sophistication and originality. Larger individual projects will provide a focus for the semester's work. An individual composition recital is encouraged for students completing this sixth semester of study.

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## MUE2440: String Techniques

String Techniques is designed to prepare instrumental music majors to teach string instruments in secondary schools. The course will cover all aspects of string instruction and performance including analysis and diagnosis of performance problems, fingering systems, method books and instructional aids and materials.

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## MUE2450: Woodwind Techniques

Woodwind techniques is designed to prepare music education majors to teach woodwind instruments in secondary schools. Students will be expected to demonstrate basic performance proficiency on clarinet, flute, saxophone, oboe and bassoon. All aspects of woodwind instruction will be covered, including method book selection, teaching techniques, instruction aids and materials.

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## MUE2460: Brasswind Techniques

Brasswind techniques is designed to prepare instrumental music majors to teach brass instruments in secondary schools. The course will cover all aspects of brass instruction and performance including analysis and diagnosis of performance problems, fingering systems, method books and instructional aids and materials. Students will be expected to demonstrate basic performance proficiency on trumpet, horn, trombone, and tuba.

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instruments in secondary schools. All aspects of percussion performance and instruction will be covered, including method book selection, teaching techniques, mallet selection, instrument care and the like.

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## MUE3332: Instrumental Materials Practicum

Prerequisite: MUG 3104. This is a comprehensive course that emphasizes effective score reading and rehearsal techniques of instrumental ensembles.

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## MUE3480: Marching Band Techniques

Prerequisite: Junior standing. This course deals with the presentation, examination, evaluation and practical application of standard and contemporary marching and arranging techniques for the high school and college band director. It is required of all music education majors.

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## MUE3491: Choral Materials Practicum

Prerequisite: MUG 3104. This course centers on secondary school choral programs. All forms of choral music will be examined and conducted. Varied literature for high school choirs will be studied and discussed.

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## MUE4311: Music Education in Elementary Schools: The Organization and Teaching of General Music

 3This course is designed to acquaint students with a balanced knowledge of general music curriculum. Emphasis is placed on understanding and planning a developmental sequence of musical experiences to assure the sound musical growth of students in grades $\mathrm{K}-6$. This course is offered in the spring term in even numbered years.

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## MUE4330: Music Education in Secondary Schools:The Organization and Teaching of General, Choral, and Instr Mus

Prerequisites: MUE 4311, MUG 3104. The role of music in junior and senior high school adolescents education; techniques for planning, teaching, and evaluating instruction; study of music appropriate to musical organizations; and general music instruction. Offered fall term in odd numbered years.

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MUE4940: Internship in Music Education
Prerequisite: Completion of requirements prescribed in the COEHS Internship Handbook and consent of Music Education Advisor.
Description: This course is designed as a culminating experience in the student's major field which allows the student an opportunity to practice skills under careful observation and cooperation with a master teacher. Internship is allowable only in the major area of concentration. This course is eligible to music education majors only upon completion of requirements prescribed in the COEHS Internship Handbook.
Course Fees: \$36

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## MUG3104: Basic Conducting

Prerequisite: One year of college music theory. This is a beginning conducting course designed to develop the necessary techniques required for basic conducting. Conventional patterns, problems with the multi-metric score, and transposition are covered.

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## MUG3302: Advanced Instrumental Conducting

Prerequisites: Successful completion of Theory II (MUT 1112) and Basic Conducting (MUG 3101). This course will engage in an intensive study of the art of conducting, score preparation/analysis, and rehearsal techniques. Maybe repeated for up to 4 credit hours.

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## MUH2012: Enjoyment of Music

An introduction to musical elements, forms, and style periods with emphasis on composers' lives, individual styles and representative works. Designed to stimulate the student's love of music and to create listening skills. Music will be studied from the Medieval through the 20th century periods.

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## MUH2015: American Music: Past and Present

This course looks at the music of America, from early blues to free jazz of the 1970's. Also, American classical composers of the 20th century and their impact will be studied.

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## MUH2017: The History and Appreciation of Rock

A study of the origins and development of rock and roll music from rhythm and blues, country and western, to current trends in pop and rock. Aural recognition of representative recordings will be required.

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## MUH2018: The Evolution of Jazz

A historical survey of the evolution of jazz from primitive African elements through its fusion with Western hymns, work songs and military music. Various styles of jazz will be studied from Dixieland through modern/contemporary jazz forms.

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## MUH2501: World Music

This course deals with the native music of Indian Asia, China, Japan, Korea, and Africa. Students will become acquainted with the music of these countries and continents through selected musical examples and extensive listening assignments.

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Music Majors - no prerequisite This course presents an advanced study of America's "classical" music: Jazz. It is designed as a continuation of MUH 2018. In addition to presenting a detailed comparative analysis of jazz artists and literature, the course focuses on the social impact involved in the development of jazz from 1890 to the present. Unique audio and video concert footage and interviews enable an in-depth study.

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MUH3055: FC - African American Musical Heritage
An examination of the roles and character of music in Western African society from the early 17th century. These traditions from which the music evolved will be traced from slavery through modern times. In doing so, a careful study will be made of field hollars, work songs, blues, spirituals, gospel and certain aspects of popular music as to their influence on the development of modern American music.

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MUH3211: Music History I
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Prerequisite: Four semesters of music theory. The history of music from ancient times through the Classical period.

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## MUH3212: Music History II

Prerequisite: Four semesters of music theory. The history of music from the Romantic period to the present, including an emphasis on American music.

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## MUH4371: (GW)Topics in 20th Century Music History

This course is a study of topics in music of the 20th century, with a focus on art music. The course will examine issues of musical style and explore the aesthetic, cultural, and social circumstances as they apply to genres of music composed during the 20th century. Gordon Rule additional writing credit.

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## MUH4633: (GW)Topics in American Music

This course is a study of topics in music of the United States. The course will examine issues of musical style and explore the aesthetic, cultural, and social circumstances as they apply to musical works by American composers. Gordon Rule additional writing credit.

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## MUL4400: Piano Literature I

The course presents standard compositions of the piano repertoire through the Classical era.
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## MUL4401: Piano Literature II

The course deals with piano repertory from the Romantic Era to the present.
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This course is intended to give the student a broader understanding and appreciation of string chamber music and its role, performance traditions, and development from the Classical period to the twentieth century.

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## MUL4434: Harp Literature

This course examines in detail the standard harp repertoire and its associated performance traditions.

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## MUL4451C: Wind and Percussion Literature

This course will examine and evaluate as much of the solo wind and percussion literature as possible, including music from all available styles and periods. Emphasis will be on the student's major instrument. A natural by product of this study will include knowledge of those reference books, which evaluate or list solos by difficulty level, texts, and information sources. The course activities are intended to cause the students to be more knowledgeable of the wind and percussion literature, and to increase the ability to discriminate between compositions of value and those of marginal quality.

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## MUL4602: Vocal Literature

The course will examine the standard vocal repertory from early Italian songs through contemporary vocal compositions. Also included will be study of French song literature, German lieder and operatic repertory.

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## MUM3701: The Music Business

This course offers students an opportunity to explore the business side of music. Items to be studied include: unions, contract writing, copyrights, laws pertaining to the music industry, the recording industry, and performing rights organizations. As appropriate, visiting guest artist from the "Great American Jazz Series" will be invited to address the class.

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## MUM4613: Music Studio Recording Techniques

This is an elective course open to all majors which provides an overview of the recording studio workspace and techniques. Topics discussed include basic studio electronics and acoustic principles, microphone design and placement techniques, and studio set up and signal flow. Other topics include recording console theory, signal processing concepts, tape machine principles and operation, and an overview of sound mixing and editing. This course will utilize industry standard digital audio software and workstations. (A material fee of $\$ 35$ will be assessed.)

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MUN2012: Instrumental Ensemble
Prerequisite: Consent of instructor. The class will study and perform compositions for various instrumental combinations.(A material fee of $\$ 35$ will be assessed.)

## MUN2120: Concert Band (Lower)

Admission is by audition of instrumental music majors and other university students. The band performs annual concerts of traditional and contemporary band literature and is required of instrumental majors. It may be repeated for credit up to 12 times.(A material fee of $\$ 35$ will be assessed.)

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## MUN2140: Wind Symphony

Prerequisite: Permission of instructor. This Lower level Wind Ensemble performs a full spectrum of traditional and contemporary wind band literature, with performances scheduled on and off campus. This course is required of instrumental majors and may be repeated for credit up to 12 times. (A material fee of $\$ 35$ will be assessed.)

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## MUN2310: UNF Chorale (Lower)

This mixed choral ensemble is designed to meet the ensemble requirement for classical music majors. The course is open to non-music majors. The repertoire includes music from the Renaissance to the Twentieth Century. Performances may be required. Repeated for credit up to 8 times. (A material fee of $\$ 35$ will be assessed.)

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MUN2510: Piano Accompanying

Description: Students will study the art of accompanying and collaboration through vocal music from the Baroque to the present day. Topics include performance practice, orchestral reductions, preparing repertoire and communication. Students will demonstrate practical understanding through collaboration with a vocalist.
Repeatability: This course may be repeated for a total of 4 credits.
Course Fees: \$35
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## MUN2710: Jazz Ensemble-Lower Level

Prerequisite: Consent of instructor and/or audition panel through an audition. The course includes the performance of jazz repertoire through the big band medium. Music reading skills are required. There are scheduled performances on and off campus. It may be repeated for credit up to 8 times. (A material fee of $\$ 35$ will be assessed.)

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## MUN2711: Combo Lab

Prerequisite: Audition by jazz faculty. The student will learn how to function in a jazz combo setting. The course will focus on developing listening and adaptive skills in a small group situation. May be repeated two times for a maximum of two credits.(A material fee of $\$ 35$ will be assessed.)

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All university instrumentalists are encouraged to participate. The ensemble will perform at UNF basketball games and other important university events. May be repeated for credit up to 8 times. (A material fee of $\$ 35$ will be assessed.)

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## MUN3123: Concert Band (Upper)

Admission by audition of instrumental music majors and other university students. Performs annual concerts of traditional and contemporary band literature. Required of instrumental majors. May be repeated for credit up to 12 times. (A material fee of $\$ 35$ will be assessed.)

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## MUN3143: Wind Symphony

The Upper level Wind Ensemble performs a full spectrum of traditional and contemporary wind band literature, with performances scheduled on and off campus. This course is required of instrumental majors and may be repeated for credit up to 12 times. (A material fee of $\$ 35$ will be assessed.)

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## MUN3163: Brass Band

Prerequisite: Instructor permission In this course the student will become familiar with classic literature for the traditional British Brass Band. This ensemble will feature up to thirty musicians and will use traditional brass band instruments in performance, including cornets, flugel horns, tenor horns, baritone horns, euphoniums, trombones, tubas and percussion. The student will be exposed to a wide selection of the literature for brass band from its' nineteenth century origins to the present, in order to gain a broad understanding of the repertory. Emphasis will be on developing the brass band's musicial and technical range, and its potential for musical expression through rehearsals and performances. This course may be repeated up to a total of ten credits. (A material fee od $\$ 35$ will be assessed.)

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## MUN3313: UNF Chorale (Upper)

This mixed choral ensemble is designed to meet the ensemble requirement for classical music majors. The course is also open to non-music majors. The repertoire includes music from the Renaissance to the Twentieth Century. Performances may be required. May be repeated up to 8 times. (A material fee of $\$ 35$ will be assessed.)

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MUN3323: UNF Women's Chorale
Prerequisite: The student should have some prior choral experience. This choral ensemble prepares music of all styles (madrigals, spirituals, motets, show, and pop) for public performance. The course may be repeated for credit up to 8 times. (A material fee of $\$ 35$ will be assessed.)

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## MUN3333: UNF Men's Chorale

Prerequisite: Instructor permission The UNF Men's Chorale performs a wide range of music spanning all periods and genres. This performance-based class encourages commitment, dedication, and personal growth as musicians and performers. The Men's Chorale is open to all majors and serves as a conducting laboratory for conducting students and student
composers alike. The genres of Barbershop, R \&B, Doo-Wop, World Music, and Classical Music represent a cross section of musical styles. Students my join the Men's Chorale to gain further singing and reading experience prior to auditioning for the UNF Chamber Singers or UNF Chorale. This course may be repeated up to a total of ten credits. (A material fee of \$35 will be assessed.)

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## MUN3343: Chamber Singers

Prerequisite: Audition and consent of instructor. Choral ensemble literature of various types of music (madrigals, spirituals, motets, Broadway show medleys, etc.), that will include public performances. May be repeated for credit up to 12 times. (A material fee of $\$ 35$ will be assessed.)

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## MUN3404: Clarinet Quartet Ensemble

Prerequisite: Instructor Permission In this course the student will become familiar with the standard clarinet quartet repertoire from a wide range of historical periods, from early Baroque to twenty-first century music. The student will be exposed to a wide selection of the literature for clarinet quartet in order to gain a broader understanding of the repertory. Emphasis will be on developing the clarinet quartet's musical and technical range, and its potential for musical expression through rehearsals and performances. This course may be repeated up to a total of ten credits. (A material fee of $\$ 35$ will be assessed.)

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## MUN3405: Clarinet Choir

Prerequisite: Instructor Permission In this course the student will become familiar with the standard clarinet choir repertoire from early to modern works. The student will be exposed to a wide selection of the literature for clarinet choir in order to gain a broader understanding of the repertory and ensemble playing. Emphasis will be on developing the clarinet choir's musical and technical range, and its potential for musical expression through rehearsals and performances. This course may be repeated up to a total of ten credits. (A material fee of $\$ 35$ will be assessed.)

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## MUN3406: Woodwind Quartet

Prerequisite: Instructor permission In this course the student will become familiar with the standard repertoire for combinations of woodwind instruments in the quartet setting from a wide range of historical periods, from early Baroque to twenty-first century music. The student will be exposed to a wide selection of the literature for woodwind quartet in order to gain a broader understanding of the repertory. Emphasis will be on developing the woodwind quartet's musical and technical range, and its potential for musical expression through rehearsals and performances. This course may be repeated up to a total of ten credits. (A material fee of $\$ 35$ will be assessed.)

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MUN3411: String Chamber Ensemble
Prerequisite: Consent of instructor.
Description: In this course, students will study and perform a variety of music for various string chamber ensembles.
Repeatability: May be repeated for up to 8 credits.
Course Fees: \$35


#### Abstract

MUN3413: Orchestra Prerequisite: Consent of instructor. The course will deal with the study and performance of standard chamber music works for string ensemble. May be repeated up to 8 times. (A material fee of $\$ 35$ will be assessed.)


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## MUN3422: Clarinet Trio Ensemble

Prerequisite: Instructor Permission In this course the student will become familiar with the standard clarinet trio repertoire from a wide range of historical periods, from early Baroque to twenty-first century music. The student will be exposed to a wide selection of the literature for clarinet trio in order to gain a broader understanding of the repertory. Emphasis will be on developing the clarinet trio's musical and technical range, and its potential for musical expression through rehearsals and performances. This course may be repeated up to a total of ten credits. (A material fee of $\$ 35$ will be assessed.)

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## MUN3423: Woodwind Ensemble

Prerequisite: Consent of instructor. The study and practice of ensemble literature for various combinations of woodwind instruments. Public performances may be included. Required for woodwind majors. May be repeated for credit up to 12 times. (A material fee of $\$ 35$ will be assessed.)

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## MUN3424: Woodwind Quintet

Prerequisite: Instructor permission In this course the student will become familiar with the standard repertoire for combinations of woodwind instruments in the quintet setting from a wide range of historical periods, from early Baroque to twenty-first century music. The student will be exposed to a wide selection of the literature for woodwind quintet in order to gain a broader understanding of the repertory. Emphasis will be on developing the woodwind quintet's musical and technical range, and its potential for musical expression through rehearsals and performances. This course may be repeated up to a total of ten credits. (A material fee of $\$ 35$ will be assessed.)

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## MUN3426: Saxophone Quartet

Prerequisite: Instructor Permission In this course the student will become familiar with the standard saxophone quartet repertoire from a wide range of historical periods, from Baroque transcriptions to contemporary art music. The student will be exposed to a wide selection of the literature for saxophone quartet in order to gain a broader understanding of the repertory and performance techniques of the saxophone. Emphasis will be on developing the saxophone quartet's musical and technical range, and its potential for musical expression through rehearsals and performances. This course may be repeated up to a total of ten credits. (A material fee of $\$ 35$ will be assessed.)

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perform on the flute. A wide variety of flute ensemble music will be rehearsed and performed. The skills to be addressed in this course include sight reading, rhythm, basic musical principles, adjustment of group balance, and intonation. Students will have the opportunity to learn a variety of instruments in the flute family, including the piccolo and alto flute. This course may be repeated up to a total of ten credits. (A material fee of $\$ 35$ will be assessed.)

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## MUN3431: Brass Chamber Ensemble

Prerequisite: Instructor permission In this course the student will become familiar with standard literature for brass quartet and quintet, while exploring new works. The student will be exposed to a wide selection of the literature for brass quintet and quartet in order to gain a broad understanding of the repertory. Emphasis will be on developing the brass chamber ensemble's musical and technical range, and its potential for musical expression through rehearsals and performances. This course may be repeated up to a total of ten credits. (A material fee of $\$ 35$ will be assessed.)

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## MUN3433: Brass Choir

Prerequisite: Instructor permission In this course the student will become familiar with standard literature for large brass choir ensembles, while exploring new works. The student will be exposed to a wide selection of the literature for brass choir in order to gain a broad understanding of the repertory. Emphasis will be on developing the brass choir's musical and technical range, and its potential for musical expression through rehearsals and performances. This course may be repeated up to a total of ten credits. (A material fee of $\$ 35$ will be assessed.)

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## MUN3438: Trumpet Ensemble

Prerequisite: Instructor permission. In this course the student will become familiar with standard literature written specifically for trumpets in an ensemble setting, while exploring new works. The student will be exposed to a wide selection of pieces for trumpet ensemble in order to gain a broad understanding of the repertory. Emphasis will be on developing the trumpet ensemble's musical and technical range and its potential for musical expression through rehearsals and performances. This course may be repeated up to a total of ten credits. (A material fee of $\$ 35$ will be assessed.)

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MUN3443: Percussion Ensemble
Prerequisite: Consent of instructor. The study and practice of ensemble literature for various combinations of percussion instruments. Public performances may be included. Required of percussion majors. May be repeated for credit up to 12 times. (A material fee of $\$ 35$ will be assessed.)

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Prerequisite: Consent of instructor. Students will study and perform piano duos and duets. May be repeated for credit up to 8 times. (A material fee of $\$ 35$ will be assessed.)

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Prerequisite: Instructor Permission In this course the student will become familiar with the important chamber music repertoire for combinations of woodwind, string, brass, and keyboard instruments from a wide range of historical periods, from early Baroque to twenty-first century music. The student will be exposed to a wide selection of the literature for mixed chamber groups in order to gain a broader understanding of the repertory. Emphasis will be on developing the chamber ensemble's musical and technical range, and its potential for musical expression through rehearsals and performances. This course may be repeated up to a total of ten credits. (A material fee of $\$ 35$ will be assessed.)

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## MUN3483: Jazz Guitar Ensemble

Prerequisite: Enrollment by permission of instructor through audition during registration. The jazz guitar ensemble consists of 15 guitars plus a rhythm section of three. Repertoire consists primarily of big band transcriptions, with guitars replacing the horn sections. May be repeated for credit up to 6 times. (A material fee of $\$ 35$ will be assessed.)

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## MUN3498: Harp Ensemble

Prerequisite: Permission of instructor. This course consists of applied instruction in harp ensemble. Works studied will include works for two or more harps, music for harp with other instruments (chamber music) and various orchestral excerpts. (A material fee of $\$ 35$ will be assessed.)

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## MUN3513: Collaborative Piano II

Prerequisiste: MUN 2510
Description: Students will study the art of accompanying and collaboration through instrumental repertoire from the Baroque to the present day. Topics include performance practice, orchestral reductions, preparing repertoire and communication. Students will demonstrate practical understanding through collaboration with an instrumentalist. Repeatability: May be repeated for a total of 4 credits.
Course Fees: \$35
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## MUN3713: Jazz Ensemble

Prerequisite: Consent of instructor through audition. The performance of jazz repertoire through the big band medium. Music reading skills required. Scheduled performances on and off campus. May be repeated for credit up to 12 times. (A material fee of $\$ 35$ will be assessed.)

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## MUN4714: Jazz Combo (Small Group)

Prerequisite: Student must concurrently take applied lessons and maintain a B average in applied. Performance-oriented small group with emphasis on traditional and modern compositions and improvisation. May be repeated for credit up to 12 times. (A material fee of $\$ 35$ will be assessed.)

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## MUO3503: Opera Workshop

Prerequisite: Consent of instructor. Rehearsal and production of scenes and complete operatic works. Three hours per week. May be repeated for credit up to 4 times.(A material fee of $\$ 35$ will be assessed.)

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## MUS1010: Performance Laboratory

Prerequisite: Must be music major. A weekly forum in which students will perform for each other and exchange critiques with the music faculty and other music students. To be taken with applied music study. May be repeated up to 8 times (no credit given).

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## MUS1011: Concert Attendance

The Concert Attendance course is designed to expand and integrate the individual student's musicianship, technical ability, artistic personality, and sense of responsibility. The student's knowledge of music history and styles beyond the area of specialization will be enhanced by attendance at a variety of concerts. This non-credit course is required for all music majors and is repeatable up to eight times. Music majors are required to pass eight semesters of this course as an essential requirement of all music degree programs.

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## MUS2221: French Diction

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Prerequisite: Consent of instructor. This course deals with diction in singing French vocal works.

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## MUS2231: German Diction

Prerequisite: Consent of instructor. This course deals with diction in singing German vocal works.

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## MUS2241: Italian Diction

Prerequisite: Consent of instructor. This course deals with diction in singing Italian vocal works.

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MUS2930: Special Topics
v. 1-

May be repeated for a total of 8 credits.
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## MUS3340: Computer MIDI Score

This course will familiarize the student with the principles of the Musical Instrument Digital Interface and its application to scoring programs. In addition, the student will learn basic computer technological applications.(A material fee of $\$ 35$ will be assessed.)

Prerequisite: Successful completion of MVK 2122. This course will present topics related to music composition with a computer. Emphasis will be placed on the completion of original music works that employ various methods of sound synthesis, drum programming, usage of loops and samples, and MIDI. Students will use software production tools for the completion of these works.(A material fee of $\$ 35$ will be assessed.)

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## MUS3930: Special Topics in Music

## v. 1-

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May be repeated up to 30 credits.
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MUS3931: Eminent Scholars Seminar
v. 1-

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May be repeated up to 10 credits.
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MUS4905: Directed Individual Studies
v. 1-

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A maximum of 15 credits may be accumulated in directed individual studies.
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## MUS4970: Senior Recital

Prerequisites: Seven semesters of applied music study in the concentration or major, or the equivalent. This non credit course tracks the mandatory senior recital requirement. Music majors are required to present a senior recital during the last semester of the applied music degree.

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## MUT1011: Fundamentals of Music

The materials of Music: rhythm, melody, tempo, dynamics, harmony, texture, tonality, timbre, form, style, mood. Selected skills in music: listening, singing, reading, playing instruments.

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## MUT1111: Theory I

Corequisite: MUT1241. The course consists of an introduction to the basics of music theory and the techniques and concepts of voice leading as practiced during the common practice period.

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basics of music theory and the techniques and concepts of voice leading as practiced during the common practice period.

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## MUT1241: Theory I, Aural

Corequisite: MUT1111. This is a beginning course designed to help the student develop abilities to recognize, write and reproduce music they see or hear. Emphasis will be on simple major and minor scales, primary chords and their inversions, simple melodic intervals, and simple duple and compound duple meters.

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## MUT1242: Theory II, Aural

Prerequisite: MUT 1241 or permission of instructor. Corequisite: MUT1112. This is a continuation of Theory I, Aural. It includes stepwise fragments from major and minor scales, inversions of primary chords with non-chord tones, melodies with chromatic non-chord tones, duple and triple groupings and basic syncopation.

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## MUT1361: Jazz Fundamentals I

This course is an introduction to the study of jazz theory. Students will study intervals, 7th chords, major scale derived modes, 13th chords, chord/scale relationships, chord symbols and basic chord progression.

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## MUT1362: Jazz Fundamentals II

Prerequisite: MUT 1361. This course is a continuation of MUT 1361. Students will study melodic minor derived modes, whole tone scales, bebop scales, advanced chord/scale relationships, and ploychords.

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## MUT2116: Theory III

Prerequisites: MUT 1111 and MUT 1112. Corequisite: MUT2246. The course consists of a continuation of skills learned in first-year theory and an introduction to the techniques and skills required to analyze and write music with chromatic harmony.

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## MUT2117: Theory IV

Prerequisites: MUT 1111, MUT 1112 and MUT 2116. Corequisite: MUT2247. The course consists of a continuation of the techniques and skills required to analyze and write music with chromatic harmony. Also included is the study of orchestration.

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## MUT2246: Advanced Aural Theory

Prerequisites: MUT 1241 and MUT 1242 or permission of instructor. Corequisite: MUT 2116. This is a continuation of Theory II, Aural. It includes diatonic chord progression with inversions, melodies with skips, chromatic non-chord tones, modulations to closely related keys, and simple meters with various note values as basic beat.

## MUT2247: Advanced Aural Theory

Prerequisites: MUT 1241, MUT 1242 and MUT 2246 or permission of instructor. Corequisite: MUT 2117. This course is a continuation of Aural Theory, Advanced (MUT 2246). It includes stepwise progressions with large skips, triadic outlines through secondary dominants, incomplete non-chord tones, rhythm patterns with different note values as basic beats, syncopation between and within the beat.

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## MUT2641: Jazz Improvisation I

Prerequisite: MUT 1361 and MUT 1362 with $B$ average and scale audition. Beginning level in learning the art of jazz improvisation. Improvisation of modal tunes and over the IIm7-V7 progression in all major keys.

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## MUT2642: Jazz Improvisation II

Prerequisite: Grade of B or above in MUT 2641. Continuation of Improvisation I. Presentation of tunes with more difficult harmonic construction and introduction of minor II-Vs.

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MUT3611: Form and Analysis
Prerequisite: Two years of college theory. Analysis of musical forms in western music.
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## MUT3643: Jazz Improvisation III

Prerequisite: Grade of B or above in MUT 2642 and scale audition. Advanced techniques and practices of jazz improvisation.

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## MUT3644: Jazz Improvisation IV

Prerequisite: Grade of B or above in MUT 3643. Continuation of Jazz Improvisation III and advanced skills and techniques of jazz improvisation.

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## MUT3648: Vocal Improvisation/Piano III

Prerequisites: MUT 2117; MUT 2641 and MUT 2642; MVK 1111 and MVK 1112. This course is designed to give vocal jazz majors advanced training in improv as well as intermediate piano skills.

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## MUT3649: Vocal Improvisation/Piano IV

Prerequisite: MUT 3648. This course continues the improv and piano skills from Vocal Improv/Piano III.

## MUT4311: Orchestration

Prerequisite: Two years of college music theory. An examination of the instruments of the symphony orchestra and wind ensemble. Includes analysis and scoring techniques.

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## MUT4365: Jazz Arranging I

Prerequisite: Grade of B or above in MUT 1361 and MUT 1362. Students will focus on writing two-part, three-part and four-part arrangements for traditional jazz instrumentations. Items to be stressed include transposition, calligraphy, instrumental ranges and characteristics, professional chart lay-out, scale re-harmonization, and writing for the rhythm section.

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## MUT4366: Jazz Arranging II

Prerequisite: MUT 4365. This course emphasizes writing and composing for a full jazz band of 17 or more musicians. It's main focus is section writing techniques such as unison, block, drop-two, and pad voicing. Also included is analysis of works by major jazz writers. The term will conclude with a performance of each student's complete big-band arrangement with score and parts.

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## MUT4369: Jazz Arranging III

Prerequisite: MUT 4366
Description: This course is a study of advanced techniques employed by various successful jazz arrangers and composers. Special emphasis will be placed on writing for conventional and non-conventional jazz ensembles. Students will be assigned several arranging projects throughout the semester. The term concludes with a performance of each studentâ ${ }^{\mathrm{TM}}$ s final arranging project. This course can be taken as a free elective in the B.M. Jazz Studies program of study.

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## MUT4421: 18th Century Counterpoint

Prerequisite: Two years of college music theory. An intensive study of the contrapuntal styles of the baroque masters. Includes analysis and synthesis.

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## MUT4626: 20th Century Music Theory

Prerequisite: Two years of college music theory. A study of 20th century compositional techniques. Includes analysis and synthesis.

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## MUT4650: Composition and Improvisation

This course will include both imitative and original composition as well as experimental and nontraditional styles. In addition, students will be given assignments in improvisation.

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Prerequisite: Grade of B or above in MUT 1361 and MUT 1362. A study of jazz styles from the New Orleans era to the "Cool" era. Includes analysis of transcribed solos as recorded by major artists.

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MUT4664: Jazz Styles and Analysis II
Prerequisite: MUT 4663 or permission of instructor. A study of jazz styles from hard bop to the present. Includes analysis of transcribed solos as recorded by major artists.

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## MVB1311: Applied Trumpet

Prerequisite: Consent of instructor. Individual instruction in trumpet. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVB1312: Applied French Horn I

Prerequisite: Consent of instructor. Individual instruction in French horn. Private lesson and performance laboratory weekly. May be repeated twice for a total of 4 credits.

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## MVB1313: Applied Trombone

Prerequisite: Consent of instructor. Individual instruction in trombone. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVB1314: Applied Euphonium

Prerequisite: Consent of instructor. Individual instruction in euphonium. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVB1315: Applied Tuba

Prerequisite: Consent of instructor. Individual instruction in tuba. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.
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MVB2321: Applied Trumpet
Prerequisite: Consent of instructor. Individual instruction in trumpet. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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Prerequisite: Consent of instructor. Individual instruction in French horn. Private lesson and performance laboratory weekly. May be repeated twice for a total of 4 credits.

## MVB2323: Applied Trombone

Prerequisite: Consent of instructor. Individual instruction in trombone. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVB2324: Applied Euphonium

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Prerequisite: Consent of instructor. Individual instruction in euphonium. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVB2325: Applied Tuba

Prerequisite: Consent of instructor. Individual instruction in tuba. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVB3331: Applied Trumpet

Prerequisite: Consent of instructor. Individual instruction in trumpet. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVB3332: Applied French Horn III

Prerequisite: Consent of instructor. Individual instruction in French horn. Private lesson and performance laboratory weekly. May be repeated twice for a total of 4 credits.

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## MVB3333: Applied Trombone

Prerequisite: Consent of instructor. Individual instruction in trombone. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVB3334: Applied Euphonium

Prerequisite: Consent of instructor. This course consists of individual instruction in euphonium with a private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVB3335: Applied Tuba

Prerequisite: Consent of instructor. Individual instruction in tuba. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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Prerequisite: Consent of instructor. Individual instruction in trumpet. Private lesson and performance laboratory weekly. May be repeated for a total of 8 credits.

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## MVB4342: Applied French Horn IV

Prerequisite: Consent of instructor. Individual instruction in French horn. Private lesson and performance laboratory weekly. May be repeated up to 4 times for a total of 8 credits.

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## MVB4343: Applied Trombone

Prerequisite: Consent of instructor. Individual instruction in trombone. Private lesson and performance laboratory weekly. May be repeated up to 3 times for a total of 8 credits.

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## MVB4344: Applied Euphonium

Prerequisite: Consent of instructor. Individual instruction in euphonium. Private lesson and performance laboratory weekly. May be repeated up to 3 times for a total of 8 credits.

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## MVB4345: Applied Tuba

Prerequisite: Consent of instructor. Individual instruction in tuba. Private lesson and performance laboratory weekly. May be repeated up to 3 times for a total of 8 credits.

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## MVJ1010: Jazz Piano I

Prerequisite: Music major or consent of the instructor. Corequisite: MUT 1361. This course is designed for music majors who approach piano as a secondary instrument. The student will study basic jazz piano skills with emphasis on block chords, shell voicings, diatonic 7th chords, cycle progressions, and II-V-I's in major and minor keys.

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## MVJ1016: Applied Jazz Saxophone I

Prerequisite: Consent of instructor and admission to Music department.
Description: This course teaches jazz improvisation via the saxophone. Concepts such as mental practice are stressed. Also the inherent multicultural aspect of jazz comes to the foreground. Students are taught to examine all cultures for fresh musical devices, understanding that old material can be used in new settings and that knowledge is ageless. The basic tools of jazz improvisation and harmony are taught and are built upon in the successive levels of this course.
Repeatability: This course is repeatable one time for a total of 4 credit hours.
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MVJ1018: Applied Jazz Trombone I

Description: This course provides individual study in jazz trombone. Students will study jazz vocabulary with emphasis on major and minor scales, diatonic triads and seventh chords, the ii-V-I progression, and solo transcriptions. Additional topics may include technical studies,
etudes, and sight reading. Repertoire will be assigned based on the student's ability and will be chosen from a broad selection of jazz standards.
Repeatability: This course may be repeated for up to 4 credit hours.
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## MVJ1210: Jazz Piano II

Prerequisites: MVJ 1010, music major or consent of instructor. Corequisite: MUT 1362. This course is a continuation of Jazz Piano I and is designed for music majors who approach piano as a secondary instrument. The student will study advanced jazz piano skills with emphasis on II-V-I progressions, I-IV cycle progressions, modal voicings, tri-tone substitutions, and polychordal II-V-I's.

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## MVJ1318: Applied Jazz Bass I

Prerequisite: Consent of instructor and admission to Music department.
Description: This course teaches the first level in the sequence of jazz bass performance. For this course emphasis is placed on basic functionality of the instrument. This includes a thorough tutorial of scales, modes, and arpeggios, along with basic technical instruction on the instrument itself. The skills developed in this course are then expanded upon and enhanced in subsequent levels of this course.
Repeatability: This course is repeatable one time for a total of 4 credit hours.
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## MVJ1319: Applied Set Drums

Prerequisite: Consent of instructor. Individual instruction in set drums. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVJ1743: Jazz Guitar Master Class I

Prerequisite: Permission of instructor through audition during registration. The Jazz Guitar Master Class consists of theoretical concepts and how to apply them to the guitar. May be repeated for a total of 4 credits.

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## MVJ2228: Applied Jazz Trombone II

Description: This course provides individual study in jazz trombone. Students will study jazz vocabulary with emphasis on bebop scales, diminished scales, whole tone scales, the ii-V-I progression, and solo transcriptions. Additional topics may include technical studies, etudes, and sight reading. Repertoire will be assigned based on the student's ability and will be chosen from a broad selection of jazz standards.
Repeatability: This course may be repeated for up to 4 credit hours.
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MVJ2326: Applied Jazz Saxophone II
Prerequisite: Successful completion of MVJ 1016, or consent of instructor
Description: This course teaches jazz improvisation via the saxophone. Dorian, Melodic Minor, Diminished Scales, Pentatonic and interchangeable tetra chords are studied along with their application. Compositions of Dizzy Gillespie and Benny Golson are studied for specific

## MVJ2328: Applied Jazz Bass II

Prerequisite: Successful completion of two semesters of MVJ 1318 or instructor consent. Description: This course teaches the second level of jazz bass performance. For this course emphasis is placed on the function of the bass in an ensemble environment. This includes instruction on 'walking' bass lines and sight-reading. Influential bass players including Ray Brown, Paul Chambers, and Ron Carter are studied and analyzed. The skills developed in this course are then expanded upon and enhanced in subsequent levels of this course. Repeatability: This course is repeatable one time for a total of 4 credit hours.

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## MVJ2329: Applied Set Drums

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Prerequisite: Consent of instructor. Individual instruction in set drums. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVJ3238: Applied Jazz Trombone III

Description: This course provides individual study in jazz trombone. Students will study jazz vocabulary with emphasis on modes of the melodic minor scale, pentatonic scales, upper structure triads and triad pairs, and solo transcriptions. Additional topics may include technical studies, etudes, and sight reading. Repertoire will be assigned based on the student's ability and will be chosen from a broad selection of jazz standards and modern jazz compositions. Repeatability: This course may be repeated for up to 4 credit hours.

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## MVJ3338: Applied Jazz Bass III

Prerequisite: Successful completion of two semesters of MVJ 2328 or instructor consent. Description: For this course emphasis is placed on the solo potential of the bass. The great bass soloists throughout jazz history are studied and analyzed, including Jimmy Blanton, Scott LaFaro, and Eddie Gomez. The skills developed in this course are then expanded upon and enhanced in subsequent levels of this class.
Repeatability: This course is repeatable one time for a total of 4 credit hours.
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## MVJ3339: Applied Set Drums

Prerequisite: Consent of instructor. Individual instruction in set drums. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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MVJ3436: Applied Jazz Saxophone III
Prerequisite: Successful completion of MVJ 2326 or consent of instructor.
Description: This course teaches jazz improvisation via the saxophone. Additionally, it stresses the team player concept, the idea that the soloist interacts with a rhythm section and must learn to be confident in that environment. Compositions in the Bebop style are studied and compared to more melodic songs, the former for jazz lines and the latter for its melodic
content. Piano chord voicings are studied to gain greater harmonic awareness. Repeatability: This course is repeatable one time for a total of 4 credit hours.

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## MVJ4346: Applied Jazz Saxophone IV

Prerequisite: Successful completion of MVJ 3436 or consent of instructor.
Description: This course teaches jazz improvisation via the saxophone. This is the highest level of Jazz Saxophone with an emphasis on performance and recital preparation. The student composes original pieces of music in conjunction with a variety of materials that bring cultural diversity into the class. This course represents a culmination of three years of study in this sequence.
Repeatability: This course is repeatable one time for a total of 4 credits.
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## MVJ4347: Applied Jazz Trombone IV

Description: This course provides individual study in jazz trombone. Students will study jazz vocabulary with emphasis on non-functional harmony. Additional topics may include technical studies, etudes, and sight reading. Repertoire will be assigned based on the student's ability and will be chosen from a broad selection of modern jazz compositions by Herbie Hancock, Wayne Shorter, Joe Henderson, and others.
Repeatability: This course may be repeated for up to 4 credit hours.
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## MVJ4348: Applied Jazz Bass IV

Prerequisite: Successful completion of two semesters of MVJ 3338 or instructor consent. Description: This course teaches the fourth and final level of jazz bass performance. For this course, advanced concepts for the bass are introduced, including the revolutionary teachings of Jaco Pastorius and Victor Wooten. Also, the compositions of advanced jazz composers such as Herbie Hancock and Wayne Shorter are studied and analyzed. This allows the student to experience a broad palette of styles and content designed to enhance the creative process. Repeatability: This course is repeatable three times for a total of 8 credit hours.

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MVJ4349: Applied Set Drums
Prerequisite: Consent of instructor. Individual instruction in set drums. Private lesson and performance laboratory weekly. May be repeated up to 3 times for a total of 8 credits.

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## MVK1111: Class Piano I

Fundamentals of piano. One class hour per week. May be repeated for a total of 2 credits.
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## MVK1112: Class Piano II

Continuation of MVK 1111. Fundamentals of piano. One hour class per week. May be repeated for a total of 2 credits.

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## MVK1311: Applied Piano

Prerequisite: Consent of instructor. Individual instruction in applied music in piano. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVK1313: Applied Organ

Prerequisite: Consent of instructor. Individual instruction in applied music in organ. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVK1622: Piano Pedagogy II

Prerequisite: MVK 1621
Description: This course is a continuation of the study of concepts necessary for successful private teaching at the elementary level, which includes an examination of current method books with music theory, technique, recital repertoire, and supplemental material appropriate for various age levels of mid to late beginning piano students. Instruction includes: (1) strategies for prevention of common problems associated with students in the first two years of study; (2) directives for the development of musicality through creative activities and musicianship classes; (3) the use of digital pianos and technological advances for teaching piano; and (4) a continuation of class presentations and projects on topics presented in the text.

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## MVK2021L: Piano Elective for Non-Majors

Prerequisite: Instructor permission
Description: This course provides non-required individual piano study for undergraduate students from all majors. This course is available to students of all levels of musical ability, with instructor permission. Topics covered may include piano technique, etudes, repertoire, sight-reading, and piano accompaniment. Piano literature covered will include a broad range of styles and genres.
Repeatability: This course may be repeated up to a total of ten credits.
Course Fees: \$35
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## MVK2121: Class Piano III

Continuation of MVK 1112. Fundamentals of piano. One hour class per week. May be repeated for a total of 4 credits.

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## MVK2122: Class Piano IV

Continuation of MVK 2121. Fundamentals of piano. One hour class per week. May be repeated for a total of 4 credits.

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## MVK2321: Applied Piano

Prerequisite: Consent of instructor. Individual instruction in applied music in piano. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

## MVK2323: Applied Organ

Prerequisite: Consent of instructor. Individual instruction in applied music in organ. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVK3331: Applied Piano

Prerequisite: Consent of instructor. Individual instruction in applied music in piano. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVK3333: Applied Organ

Prerequisite: Consent of instructor. Individual instruction in applied music in organ. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVK3604: Pedagogy of Group Piano II

Prerequisite: MVK 1621, MVK 1622, MVK 3603, MVK 2624, MVK 2626
Description: This course is a continuation of Pedagogy of Group Piano I and is designed to prepare future piano teachers in the area of group teaching. Pedagogy students will focus on the pre-college student, adult study, and college courses. The survey continues of methods and materials, including ensemble music which is appropriate for group piano teaching. An emphasis will be placed on technical instruction and creative activities in the group teaching environment. Observations of UNF Class Piano will lead to practice teaching of lessons.

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## MVK3631: Elementary Piano Pedagogy

Description: This course includes a basic study of concepts necessary for successful private teaching at the elementary level and the principles of learning as applied to piano teaching. Various techniques for teaching pre-schoolers, older pre-college level students and adult beginning students will be examined and critiqued. Current method books with a variety of reading approaches will be considered. The emphasis will be on the specifics of teaching rhythm, note reading, keyboard technique, and the common problems associated with students in the first two years of study. This course may incorporate observing and/or assisting in the instruction of elementary piano lessons.

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## MVK3632: Intermediate Piano Pedagogy

Prerequisite: MVK 3631.
Description: This course is designed to prepare pedagogy students for teaching intermediatelevel piano students through a study of technical concepts, teaching materials and methods, and appropriate literature from the historical style periods. The discussion of theory-based instruction and musicianship classes will be continued. Instruction includes an analytical study of the problems associated with transfer students: the appropriate techniques for confronting areas of deficiency with an emphasis upon solo literature as well as ensemble music for one, two or multiple pianos, and an examination of music instruction software, including accompanying compact discs, MIDI discs, theory computer programs, and music instruction
videos. Alternative literature, including both solo and ensemble works by contemporary composers in the jazz/rock or Romantic styles will be examined. This course may incorporate observing and/or assisting in the instruction of intermediate-level piano lessons.

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MVK4241: Piano Elective
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Description: This course provides elective individual piano study. Music majors seeking secondary instrument emphasis and non-music majors pursuing elective piano instruction are both eligible for this course. Topics covered may include piano technique, etudes, repertoire, sight reading, and functional piano skills. Piano literature covered will include a broad range of styles and genres. This course may be taken for 1 or 2 credit hours.
Repeatability: This course may be repeated for up to a total of 10 credits.
Course Fees: \$35
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## MVK4341: Applied Piano

Prerequisite: Consent of instructor. Individual instruction in applied music in piano. Private lesson and performance laboratory weekly. May be repeated up to 3 times for a total of 8 credits.

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## MVK4343: Applied Organ

Prerequisite: Consent of instructor. Individual instruction in applied music in organ. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVK4603: Pedagogy of Group Piano

Description: This course encompasses the methodology of group piano teaching and a survey of materials for beginning through intermediate study in group keyboard teaching. Class projects include an evaluation of texts suitable for young beginners, adult classes and college courses in group piano instruction. The focus will be on issues of pacing in classroom teaching, curriculum building, need for supplementary material, and technical aspects such as rhythm drills, keyboard theory activities, and the use of exercises and etudes. Attendance on selected class days of UNF Class Piano I and III or Group Piano for Non- Majors will be required, and will lead to practice teaching of group lesson content.

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## MVK4641: Advanced Piano Pedagogy

Prerequisite: MVK 3631 or MVK 4603
Description: This course is designed to prepare future piano teachers to instruct advancedlevel pre-college students. The primary focus will be on teaching methods, materials and concepts for the advanced student. Instructional focus will be on scales, arpeggios and technical etudes necessary to develop and maintain keyboard facility and the practice techniques employed to tackle advanced-level literature. The characteristics of Baroque, Classical, Romantic, and Contemporary styles relating to standard piano literature will be studied, as well as the major composers of solo, ensemble and concerto piano literature. This course may incorporate observing and/or assisting in the instruction of advanced-level piano lessons.

Description: This course is designed for students with two years or less of piano playing experience. Topics of study will include the fundamentals of reading music, playing by ear, using chord charts, and improving finger flexibility. Instruction for this course will take place in a state-of-the-art digital piano lab.
Course Fees: \$35
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## MVK4941: Internship in Piano Pedagogy I

Description: This course is designed to give pedagogy students practical experience in the teaching of children's musicianship classes and private piano lessons under faculty supervision. The focus will be on beginning-level through intermediate-level pre-college students.

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## MVK4942: Internship in Piano Pedagogy II

Prerequisite: MVK 4941
Description: Internship in Piano Pedagogy II is a continuation of Internship in Piano Pedagogy I and is designed to give pedagogy students practical experience in the teaching of children's musicianship classes and private piano lessons under faculty supervision. The focus will be on intermediate-level through advanced pre-college students.

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MVO4640: Wind and Percussion Pedagogy

Description: This course will provide students with pedagogical knowledge of private wind and percussion instrument teaching including student motivation, tone production, technique, articulations, transpositions, and a survey of literature. Observations of lessons are included.

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## MVP1311: Applied Percussion

Prerequisite: Consent of instructor. Individual instruction in percussion instruments. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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MVP2321: Applied Percussion
Prerequisite: Consent of instructor. Individual instruction in percussion instruments. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVP3331: Applied Percussion

Prerequisite: Consent of instructor. Individual instruction in applied percussion. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

## MVP4341: Applied Percussion

Prerequisite: Consent of instructor. Individual instruction in percussion. Private lesson and performance laboratory weekly. May be repeated up to 3 times for a total of 8 credits.

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## MVS1314: Applied String Bass

Prerequisite: Consent of instructor. Individual instruction in string bass. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVS1315: Applied Harp I

Individual applied instruction in harp performance. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVS1316: Applied Guitar

Prerequisite: Admission as music major; consent of instructor. Individual instruction in guitar. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVS1411: Applied Violin I

Prerequisite: Consent of instructor. Individual instruction in violin will be given on a weekly basis. May be repeated for a total of 4 credits.

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## MVS1412: Applied Viola I

Prerequisite: Consent of instructor. Individual instruction in viola will be given on a weekly basis. May be repeated for a total of 4 credits.

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## MVS1413: Applied Violoncello I

Prerequisite: Consent of instructor. Individual instruction in violoncello will be given on a weekly basis. May be repeated for a total of 4 credits.

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## MVS2324: Applied String Bass

Prerequisite: Consent of instructor. Individual instruction in string bass. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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Prerequisite: MVS 1315 or permission of instructor. Individual applied instruction in harp performance. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVS2326: Applied Guitar

Prerequisite: Admission as music major; consent of instructor. Individual instruction in guitar. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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MVS2421: Applied Violin II
Prerequisite: Consent of instructor. Individual instruction in violin will be given on weekly basis. May be repeated for a total of 4 credits.

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## MVS2422: Applied Viola II

Prerequisite: Consent of instructor. Individual instruction in viola will be given on a weekly basis. May be repeated for a total of 4 credits.

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MVS2423: Applied Violoncello II
Prerequisite: Consent of instructor. Individual instruction in violoncello will be given on a weekly basis. May be repeated for a total of 4 credits.

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## MVS3334: Applied String Bass

Prerequisite: Consent of instructor. Individual instruction in string bass. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVS3335: Applied Harp III

Prerequisite: MVS 2325 or permission of the instructor. Individual applied instruction in harp performance. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVS3336: Applied Guitar

Prerequisite: Admission as music major; consent of instructor. Individual instruction in guitar. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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Prerequisite: Consent of instructor. Individual instruction in violin will be given on a weekly basis. May be repeated for a total of 4 credits.

## MVS3432: Applied Viola III

Prerequisite: Consent of instructor. Individual instruction in viola will be given on a weekly basis. May be repeated for a total of 4 credits.

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## MVS3433: Applied Violoncello III

Prerequisite: Consent of instructor. Individual instruction in violoncello will be given on a weekly basis. May be repeated for a total of 4 credits.

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## MVS3530: Violin and Viola Repertory I

Description: his course is a study of violin and viola repertory from the Baroque Period through the Classical Period.
Repeatability: This course may be repeated for a total of 4 credits.
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MVS3531: Violin and Viola Repertory II
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Description: This course is a study of violin and viola repertory from the Romantic Period through the 20th Century.
Repeatability: This course may be repeated for a total of 4 credits.
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MVS3532: Cello and Bass Repertory I 2

Description: This course is a study of cello and bass repertory from the Baroque Period through the Classical Period.
Repeatability: This course may be repeated for a total of 4 credits.
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MVS3533: Cello and Bass Repertory II
2

Description: This course is a study of cello and bass repertory from the Romantic Period through the 20th Century.
Repeatability: This course may be repeated for a total of 4 credits.
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MVS3601: Harp Pedagogy
Prerequisite: Permission of the instructor.
Description: This course explores the many aspects of harp technique, including pedagogical methods and the repertoire appropriate for the teaching of harp at all levels.

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Description: This course will cover the study of various cello/bass teaching methods and playing techniques as well as the selection of appropriate repertoire and studies for students of all levels. Methods will include developing proper playing and practicing techniques, correct playing posture and instrument hold, as well as exploration of the uses of scales and etudes. The instructor will present various exercises and excerpts and offer commentary. Students will analyze, discuss and present selected exercises as assigned by the instructor.

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## MVS3640: Violin and Viola Pedagogy

Prerequisite: Permission of instructor.
Description: This course will cover the study of various violin/viola teaching methods and playing techniques as well as the selection of appropriate repertoire and studies for students of all levels. Methods will include developing proper playing and practicing techniques, correct playing posture and instrument hold, as well as exploration of the uses of scales and etudes. The instructor will present various exercises and excerpts and offer commentary. Students will analyze, discuss and present selected exercises as assigned by the instructor.

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## MVS4344: Applied String Bass

Prerequisite: Consent of instructor. Individual instruction in string bass. Private lesson and performance laboratory weekly. May be repeated up to 3 times for a total of 8 credits.

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## MVS4345: Applied Harp IV

Prerequisite: MVS 3335 or permission of the instructor. Individual applied instruction in harp performance. Private lesson and performance laboratory weekly. May be repeated for a total of 4 credits.

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## MVS4346: Applied Guitar

Prerequisite: Admission as music major; consent of instructor. Individual instruction in guitar. Private lesson and performance laboratory weekly. May be repeated up to 3 times for a total of 8 credits.

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## MVS4441: Applied Violin IV

Prerequisite: Consent of instructor. Individual instruction in violin will be given on a weekly basis. May be repeated up to 3 times for a total of 8 credits.

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## MVS4442: Applied Viola IV

Prerequisite: Consent of instructor. Individual instruction in viola will be given on a weekly basis. May be repeated up to 3 times for a total of 8 credits.

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## MVS4443: Applied Violoncello IV

Prerequisite: Consent of instructor. Individual instruction in violoncello will be given on a weekly basis. May be repeated up to 3 times for a total of 8 credits.

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## MVV1111: Class Voice

Description: This one-hour weekly course examines the fundamentals of vocal production. Repeatability: This course may be repeated for a total of 2 credits.

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## MVV1311: Applied Voice

Prerequisite: Consent of instructor.
Description: Individual instruction in applied voice. Private lesson and performance laboratory weekly.
Repeatability: May be repeated for a total of 4 credits.
Course Fees: \$350
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## MVV1871: Voice for Non-majors I

Co-requisite: MUN 2310 or MUN 3313 or MUN03323 or MUN 3333 or MUN 3343 or MUO 3503
Description: Individual instruction will be given in voice. Students receive weekly private lessons and participate in weekly performance laboratory. This course is open to non-voice performance majors and non-music majors.
Repeatability: This course may be repeated for a total of 4 credits.
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## MVV2321: Applied Voice

Prerequisite: Consent of instructor.
Description: Individual instruction in applied voice. Private lesson and performance laboratory weekly.
Repeatability: May be repeated for a total of 4 credits.
Course Fees: \$350
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MVV2872: Voice for Non-majors II

Co-requisite: MUN 3313 or MUN 3323 or MUN 3333 or MUN 3343 or MUO 3503 or MUN 2310

Description: Individual instruction will be given in voice. Students receive weekly private lessons and participate in weekly performance laboratory. This course is open to non-voice performance majors and non-music majors.
Repeatability: This course may be repeated for a total of 4 credits.
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Prerequisite: Consent of instructor.
Description: Individual instruction in applied voice. Private lesson and performance laboratory weekly.
Repeatability: May be repeated for a total of 4 credits.
Course Fees: \$350
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## MVV3876: Voice for Non-majors III

Co-requisite: MUN 2310 or MUN 3313 or MUN 3323 or MUN 3333 or MUN 3343 or MUO 3503

Description: Individual instruction will be given in voice. Students receive weekly private lessons and participate in weekly performance laboratory. This course is open to non-voice performance majors and non-music majors.
Repeatability: This course may be repeated for a total of 4 credits.
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## MVV3970: Junior Voice Recital

Prerequisite: MVV 1311 and MVV 2321
Co-requisite: MVV 3331
Description: Music majors can present a junior recital during the fifth or sixth semester of voice study (MVV3331). This is a non credit course which provides important solo and collaborative performance opportunity and also preparation for the mandatory senior recital.

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## MVV4341: Applied Voice

Prerequisite: Consent of instructor.
Description: Individual instruction in applied voice. Private lesson and performance laboratory weekly.
Repeatability: May be repeated up to 3 times for a total of 8 credits.
Course Fees: \$350
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## MVV4640: Vocal Pedagogy

Prerequisite: Consent of instructor
Description: The course examines various voice teaching methods.
Repeatability: This course may be repeated for a total of 4 credits.
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MVV4877: Voice for Non-majors IV

Description: Individual instruction will be given in voice. Students receive weekly private lessons and participate in weekly performance laboratory. This course is open to non-voice performance majors and non-music majors.
Repeatability: This course may be repeated for a total of 4 credits.

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Prerequisite: MVV 1311, MVV 2321, and MVV 3331
Co-requisite: MVV 4341
Description: This course provides important solo and collaborative performance opportunity and is a requirement of the B.M. Music Performance - Classical Voice concentration.
Course Fees: \$400
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## MVW1211: Secondary Flute I

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in flute and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 2 credits.
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## MVW1213: Secondary Clarinet I

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in clarinet and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 2 credits.
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## MVW1311: Applied Flute I

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in flute and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.
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## MVW1312: Applied Oboe I

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in oboe and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.
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MVW1313: Applied Clarinet I
Prerequisite: Consent of instructor.
Description: Students receive individual instruction in clarinet and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.
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## MVW1314: Applied Bassoon I

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in bassoon and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.

## MVW1315: Applied Saxophone

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in saxophone and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.
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## MVW2221: Secondary Flute II

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in flute and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 2 credits.
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## MVW2223: Secondary Clarinet II

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in clarinet and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 2 credits.
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MVW2321: Applied Flute II
Prerequisite: Consent of instructor.
Description: Students receive individual instruction in flute and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.
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## MVW2322: Applied Oboe II

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in oboe and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.
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## MVW2323: Applied Clarinet II

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in clarinet and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.
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laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.
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MVW2325: Applied Saxophone Prerequisite: Consent of instructor. Description: Students receive individual instruction in saxophone and participate in performance laboratory each week. Repeatability: This course may be repeated for a total of 4 credits.


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## MVW3231: Secondary Flute III

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Prerequisite: Consent of instructor.
Description: Students receive individual instruction in flute and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 2 credits.
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## MVW3233: Secondary Clarinet III

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in clarinet and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 2 credits.
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## MVW3331: Applied Flute III

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in flute and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.
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## MVW3332: Applied Oboe III

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in oboe and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.
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MVW3333: Applied Clarinet III
Prerequisite: Consent of instructor.
Description: Students receive individual instruction in clarinet and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.
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Prerequisite: Consent of instructor.
Description: Students receive individual instruction in bassoon and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.
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## MVW3335: Applied Saxophone

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in saxophone and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 4 credits.
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## MVW4241: Secondary Flute IV

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in flute and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 2 credits.
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MVW4243: Secondary Clarinet IV
Prerequisite: Consent of instructor.
Description: Students receive individual instruction in clarinet and participate in performance laboratory each week.
Repeatability: This course may be repeated for a total of 2 credits.
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## MVW4341: Applied Flute IV

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in flute and participate in performance laboratory each week.
Repeatability: This course may be repeated up to 3 times for a total of 8 credits.
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## MVW4342: Applied Oboe IV

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in oboe and participate in performance laboratory each week.
Repeatability: This course may be repeated up to 3 times for a total of 8 credits.
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## MVW4343: Applied Clarinet IV

Prerequisite: Consent of instructor.
Description: Students receive individual instruction in clarinet and participate in performance laboratory each week.
Repeatability: This course may be repeated up to 3 times for a total of 8 credits.
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Prerequisite: MVW 3334 and consent of instructor
Description: Students receive individual instruction in bassoon and participate in performance laboratory each week.
Repeatability: This course may be repeated up to 3 times for a total of 8 credits.
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MVW4345: Applied Saxophone
Prerequisite: Consent of instructor.
Description: Students receive individual instruction in saxophone and participate in performance laboratory each week.
Repeatability: This course may be repeated up to 3 times for a total of 8 credits.
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## Undergraduate Courses

## Chemistry

## Course Descriptions:

## BCH3023C: Bioorganic Chemistry

Prerequisite: CHM 1025C. The carbon chemistry of biological substances, the structure and function of biological molecules and elementary metabolism. (Cannot be used by natural science majors to satisfy degree requirements). Three hours lecture, three hours laboratory. (A laboratory fee of $\$ 59$ will be assessed.)

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## BCH4033: Biochemistry

Prerequisite: CHM 3120C, CHM 2211, CHM 2211L. This course introduces students to catabolic, anabolic and energetic processes in living systems. Emphasis is on the relationships between the molecular structure and the interactions of biological molecules. Three hours lecture.

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## BCH4033L: Biochemistry Lab

Corequisite: BCH 4033. This laboratory course is an introduction to biochemical properties of biological systems, basic biochemistry/molecular biology procedures. Four hours laboratory. (A laboratory fee of $\$ 59$ will be assessed.)

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## CHM1025: Introduction to Chemistry

This course is an introduction to the principles of modern chemistry and an overview of different areas of chemistry and its applications including elementary organic chemistry.

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## CHM1025L: Introduction to Chemistry Laboratory

Co-requisite: CHM 1025 This course is an introduction to the principles of modern chemistry and an overview of different areas of chemistry and its applications including elementary organic chemistry. (A laboratory fee of $\$ 59$ will be assessed.)

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CHM2045: General Chemistry I
Prerequisite: CHM 1025, CHM 1025L or high school chemistry with a B or better, MAC 1105 Co-requisite: CHM 2045L The course covers stoichiometry, atomic structure, chemical bonding, acids and bases, solutions and their properties, and descriptive chemistry of selected elements.

## CHM2045L: General Chemistry I Laboratory

Prerequisite: CHM 1025, CHM 1025L or high school chemistry with a B or better, MAC 1105 Co-requisite: CHM 2045 The course includes experiments that demonstrate the concepts of stoichiometry, atomic structure, chemical bonding, acids and bases, solutions and their properties, reaction rates and equilibrium and descriptive chemistry of selected elements. (A laboratory fee of $\$ 59$ will be assessed.)

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## CHM2046: General Chemistry II

Prerequisite: CHM 2045, CHM 2045L Co-requisite: CHM 2046L The course covers the chemistry of gases, liquid, solids, thermodynamics, electrochemistry, aqueous equilibria, and reaction rates.

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## CHM2046L: General Chemistry II Laboratory

Prerequisite: CHM 2045, CHM 2045L
Co-requisite: CHM 2046 The course includes experiments that demonstrate the basic concepts of the chemistry of gases, liquid, solids, thermodynamics, electrochemistry, reaction rates, and aqueous equilibria. (A laboratory fee of $\$ 59$ will be assessed.)

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## CHM2210: Organic Chemistry I

Prerequisite: CHM 2046, CHM 2046L A study of the compounds of carbon emphasizing functional group reactivity, spectroscopy, reaction mechanisms. Three hours lecture. Natural science majors must co-enroll in CHM 2210/CHM 2210 L.

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## CHM2210L: Organic Chemistry I Laboratory

Prerequisite: CHM 2046, CHM 2046L
Co-requisite: CHM 2210. Note: Students are required to bring a combination lock to class on the first day of lab. Techniques used in organic laboratories such as crystallization, distillation chromatography. Three hours laboratory. Natural science majors must co-enroll in CHM 2210/CHM 2210L. (A laboratory fee of $\$ 59$ will be assessed.)

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## CHM2211: Organic Chemistry II

Prerequisite: CHM 2210, CHM 2210L. A continuation of CHM 2210. Natural Science majors must co-enroll in CHM 2211L. Three hours lecture.

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## CHM2211L: Organic Chemistry II Laboratory

# CHM2930: Selected Topics in Chemistry <br> v. 2- <br> 4 

Prerequisite: Permission of instructor. Variable topics in chemistry appropriate for students in their freshman or sophomore years.

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## CHM3120C: Quantitative Analytical Chemistry

Note: Students are required to bring a combination lock to class on the first day of lab. Prerequisite: s are required to bring a combination lock to class on the first day of lab. Prerequisite: CHM 2046C or equivalent. Principles and practice of quantitative analysis with emphasis on gravimetric and titrimetric methods. Three hours lecture, three hours laboratory. (A laboratory fee of $\$ 59$ will be assessed.)

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## CHM3260: Advanced Organic Chemistry

Prerequisite: CHM 2211 The course covers structural/mechanistic and synthetic aspects of organic chemistry, focusing on both fundamental/classical concepts and contemporary topics. Classical topics include bonding and molecular structure, stereochemical and conformational aspects, structure-reactivity relationships, kinetic isotope effect, substitution, additionelimination, reactive intermediates, aromaticity and aromatic chemistry. Contemporary topics include modern synthetic methods and reagents, concerted reactions, ligand-coupling reactions, retrosynthetic analysis, and targeted synthesis.

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## CHM3610: Inorganic Chemistry

Prerequisites: CHM 2211, CHM 3120C The Inorganic Chemistry course provides coverage of topics including atomic orbitals, molecular orbital theory, nuclear properties, molecular symmetry, group theory, vibrational spectroscopy, valence bond theory, coordination chemistry, and ligand field stabilization energy.

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## CHM3610L: Inorganic Chemistry Laboratory

Prerequisite: CHM 3610 The Inorganic Chemistry Laboratory course provides an experimental basis for content covered in the prerequisite foundation course, Inorganic Chemistry. The laboratory course provides an emphasis on the synthesis of inorganic and organometallic compounds with subsequent characterization using modern analytical and physical measurements. Significant focus is placed on the complete process of both synthesis and characterization of inorganic compounds. Development of scientific communication skills is emphasized through use of a bound laboratory notebook and preparation of coherent laboratory reports written with a conventional scientific structure. (A laboratory fee of $\$ 59$ will be assessed.)

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## CHM4130C: Modern Analytical Chemistry

Prerequisites: CHM 4411C. This course emphasizes instrumental methods of analytical investigation including atomic absorption spectroscopy, potentiometry, electrogravimetry, nuclear magnetic resonance spectroscopy, gas chromatography/mass spectrometry and high

## CHM4410C: Physical Chemistry I

Prerequisites: CHM 2046C or equivalent, PHY 2054/PHY 2054L or PHY 2049/PHY 2049L (calculus-based physics required for chemistry majors), MAC 2312. Energetics and chemical affinity; states of matter and changes of state; solutions. Three hours lecture, three hours laboratory. (A laboratory fee of $\$ 59$ will be assessed.)

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## CHM4411C: Physical Chemistry II

Prerequisite: CHM 4410C. Reaction rates; interfaces; the chemical bond; photochemistry. Three hours lecture, three hours laboratory. (A laboratory fee of $\$ 59$ will be assessed.)

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## CHM4473: Introduction to Quantum Chemistry

Prerequisite: CHM 4411C. The application of Schrodinger's equation to the problems of atomic structure and chemical bonding. Three hours lecture.

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## CHM4612: Advanced Inorganic Chemistry

Prerequisites: CHM 3610, CHM 4410C The Advanced Inorganic Chemistry course is an indepth course that builds upon content covered in the prerequisite foundation course, Inorganic Chemistry. The course provides in-depth coverage of the structure and bonding of the representative p-block elements and transition metal d-block elements. Coordination compounds are examined using both crystal field theory and molecular orbital theory.

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## CHM4627: Solid State Chemistry

Prerequisites: CHM 3610, CHM 4410C The Solid State Chemistry course is an advanced course that introduces concepts relating to crystalline structures, bonding forces, superconductivity, electrochemical, magnetic, optical, and conductive properties that underlie extended solids. The lecture course provides experimental evidence and theoretical interpretations of the structure and properties of solid-state inorganic compounds. A range of synthetic and physical techniques to prepare and characterize solids is described.

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## CHM4910: Chemical Research

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Prerequisite: Junior or senior standing and consent of instructor. Laboratory or field research in collaboration with chemistry faculty. No more than 4 hours will count towards major electives. (A laboratory fee of $\$ 59$ will be assessed.)

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Prerequisite: Permission of instructor. Variable topics as related to recent advances in chemistry. May be repeated for a total of 12 credits.

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## CHM4931: Senior Seminar in Chemistry

Prerequisite: CHM 4410C Library research, including the use of Chemical Abstracts and Science Citation Index will be required in this course. In addition, an oral presentation and written paper are required. Students wishing to include laboratory research should enroll in CHM 4910, Chemical Research, prior or simultaneously to this course. Note: Senior Seminar is only offered fall and spring semesters.

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## CHM4970: G(W) Honors Research

v. 1-

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Prerequisites: Admission to the Honors in the Major track in chemistry and CHM 4910. The course provides a vehicle for students to work closely with a sponsoring faculty member on an individually supervised research project. The student will prepare an Honors thesis, which will be presented at a departmental seminar. Students must enroll for six hours total, which will usually be spread over two semesters.

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## CHS4615: Environmental Chemistry

Prerequisites: CHM 3120C, CHM 2210. This course examines the sources, reactions, transport, effects and fates of chemical species in the water, soil and air environments. Three hours lecture.

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## CHS4615L: Environmental Chemistry Lab

Corequisite: CHS 4610 This laboratory course will demonstrate some of the techniques for monitoring substances in the environment. Students will be expected to work independently on problems related to real environmental problems or principles. Three hours laboratory. (A laboratory fee of $\$ 59$ will be assessed.)

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## Undergraduate Courses

## Philosophy and Religious Studies

## Course Descriptions:

## PHH3100: Ancient Greek Philosophy

Description: This course is a survey of the major metaphysical, epistemological and ethical issues which concern the ancient Greek philosophers. Included will be pre-Socratics, Plato, Aristotle, the stoics, the epicureans, the skeptics, and the neo-Platonists.

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## PHH3104: Socrates and the Sophists

This course introduces students to Socratic thought on a focused, intensive level. Students will read the central dialogues of Plato that present Socrates arguing against the most influential teachers of ancient Athens, the Sophists. In the process of reading these works, students will analyze Socrates's arguments that virtue consists in wisdom and that the life of continuous self-examination and striving for virtue is superior to the life of political power based on rhetorical prowess. Students will also determine for their own lives whether they prefer the life of a philosopher, and the values on which it is founded, or the life of the Sophist and master of rhetoric.

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PHH3120: (FC) The Greek Experience
An interdisciplinary course, weaving together the history, art, and philosophy of ancient Greece. We will focus on certain concepts the Greeks bequeathed us which are still important. We will try to think about polis, logos, nous, psyche, arete, in the way that a Greek might have thought about them.

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## PHH3400: Modern Philosophy

An examination of major philosophical developments accompanying the emergence of the modern world. The course focuses on the chief thinkers of the 17th and 18th century, including Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant.

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PHH3500: 19th Century Philosophy
Prerequisite: One course in philosophy other than a foreign culture. An exploration of major philosophical developments which follow the French Revolution and culminate with the beginning of the 20th century. Special attention is given to the contemporary relevance of 19th century thought. Readings from Hegel, Marx, Kierkegaard, Schopenhauer, Dilthey and Nietzsche.

## PHH3811: The Philosophy of Zen Buddhism

Zen is the meditation school of traditional Buddhism. This course is a critical examination of the literary, philosophical and historical roots and teachings of Zen. We will begin with a general introduction to Buddhism, then read some Chinese and Japanese Zen texts, in an effort to understand them as expressions of Asian culture, as responses to philosophical problems, as exercises testing the limits of reason, and as expedient means to awaken "the true self of compassionate wisdom".

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## PHH3820: (FC) Chinese Philosophy

Chinese Philosophy traces the historical development of the major, traditional movements in thought, religion, and philosophy. Beginning with the Chinese classics, its explores the ideas of Confucianism, Mohism, Daoism, Legalism, Buddhism, and Neo-Confucianism. Readings in primary sources are emphasized.

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## PHH3860: (FC) The Japanese Mind

A study of Japanese cultural thought with an emphasis on the philosophy behind Shinto, Zen Buddhism, the samurai spirit (Bushido), Japanese aesthetics, and modern Japanese-Western intellectual interactions; critique of "orientalism": how the West understands the East.

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## PHH4121: Ancient Greek Ethics

Prerequisite: One course in Philosophy other than Foreign Culture. In this course we will study the origins of Western ethical thought in ancient Greece. Beginning with Aristotle, we will go on to examine the work of the Hellenistic philosophers, who more fully developed several distinctive schools of ethical thought and behavior. While these philosophers are interesting in themselves, they are also important because they formulated the basis of contemporary ethics, both in the questions asked and in the solutions offered.

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## PHH4601: 20th Century Continental Philosophy

Prerequisite: PHH 3400 or PHH 3500. An examination of major issues and figures in 20th century continental philosophy. Attention is given to phenomenology, existentialism, semiotics, structuralism, post-structuralism, and deconstruction. Readings taken from recent German and French authors.

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## PHH4620: 20th Century Philosophy: Anglo-American Tradition

Prerequisite: One course in philosophy other than foreign culture. The history of philosophy in the present century in the English-speaking world is marked by a turn away from speculative metaphysics toward the logical analysis of language. This course traces the history of that development from Russell through Wittgenstein and the "logical positivists" up to the present trend toward applied ethics.

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An introduction to the rudiments of philosophical thinking, which is designed to clarify the differences between philosophy and other human activities such as science and religion. The course will introduce students to a range of philosophical problems and methods. Gordon Rule Additional Writing credit.

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## PHI2100: (GW) Reasoning and Critical Thinking

Principles of sound reasoning, language analysis and definition, the logic of classes and propositions and discussions of philosophical issues. Gordon Rule Additional Writing credit.

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## PHI2630: (GW) Contemporary Ethical Issues

An attempt to provide the student with a theoretical framework to approach the great moral issues of our time. Gordon Rule Additional Writing credit.

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PHI2930: Selected Topics: Philosophical Inquiry

Selected topics in philosophy.
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## PHI3130: (GM) Symbolic Logic

Truth table and natural deduction approaches to modern logic. Propositional calculus, predicate calculus, logic of relations, identity and definite descriptions.

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## PHI3300: Introduction to Epistemology

Description: Epistemology is the study of knowledge and justified belief. In this course, we will critically examine numerous accounts of the nature and sources of knowledge and justified belief. In addition, we will look at epistemological puzzles concerning skepticism, the problem of induction, epistemic relativism, and the epistemic significance of disagreement. The philosophical questions to be discussed include: What is knowledge? Can we know anything worthwhile? Given that we do know things, how do we know them? Under what conditions is a belief rational? Is it rational to believe controversial propositions? Is there more than one standard of rationality?

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PHI3500: Introduction to Metaphysics

Description: This course will be a topical introduction to central themes in metaphysics, a branch of philosophy that tries to answer the fundamental questions about the nature of reality. In the course we will carefully consider accounts of causation, the relation of freedom and determinism, laws of nature, personal identity, mental states, time, material objects, and properties. The philosophical questions to be discussed include: What makes it the case that one event causes another event? Is free will compatible with determinism? What are material objects? Given that material objects exist, do such things as properties exist? What makes it the case that a person may exist at two different times?

Ethics considers questions such as "How should I live?" and "How do I decide the right thing to do and why should I do it?" This course deals with those questions in the areas of moral metaphysics, meta-ethics and normative theories of moral conduct which come from the history of philosophy back to the time of Plato and Aristotle. Other theorists to be discussed include Immanuel Kant and John Stuart Mill, and may include figures such as Thomas Hobbes, David Hume and John Dewey, as well as contemporary theorists.

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## PHI3632: Ethics of Sex and Gender

This course will explore ethical dimensions of sex and gender and the gendered dimensions of ethical thought and practice. We will ask whether women and men approach moral problems differently and whether women's traditional concerns, such as child care, can enhance ethical theory. We will also consider how "feminist ethics" has been altered by the perspectives of women in different social locations. We also address practical ethical issues related to sex and gender, such as reproductive technologies, prostitution, and militarism. We will explore each of these topics from a variety of both masculine and feminine perspectives.

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## PHI3633: Bioethics

This course employs tools of ethical theory to examine a number of moral issues arising in health care. Issues to be considered include the physician-patient relationship, informed consent, advance directives, euthanasia and physician-assisted suicide, experimentation on human subjects, and access to health care. Throughout this course we will examine assumptions about rights, persons, and ethical principles at play in the medical arena. Readings will include discussions of ethical principles in medical contexts, legal decisions, and case studies, providing students with the opportunity to sharpen their analytic skills and develop a deeper understanding of some of the major bioethical issues currently being debated.

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## PHI3637: Ethical Issues in Public Health

This course introduces students to moral issues in public health. Students will learn to recognize relevant moral issues and analyze them in light of basic ethical principles. Topics to be covered may include allocation of scarce health care resources, public vs. private health care funding, access to care, ethics and infectious disease control (STDs, HIV, TB), public health genetics (screening programs and individual testing/counseling), and research ethics in public health (e.g. experimenting on uninformed populations). Case analysis and group discussion will be emphasized.

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## PHI3640: Environmental Ethics

This course will cover intrinsic and instrumental value approaches to environmental ethics, alternative environmental ethical approaches, and special environmental ethical issues. The goal of the course is to familiarize students with all the major approaches to environmental ethics and with a few particularly philosophically interesting environmental ethical issues. Students will appreciate and understand the complexity and intricacy of the arguments involved in adopting one approach or position over another.

## PHI3641: Business Ethics

This course examines the theoretical foundations of business ethics as well as various ethical issues which arise on personal, corporate, national and global levels in the business world. The course will include: an examination of a philosophical context for business ethics; and exploration of relevant ethical and social-political theories; consideration and discussion of real-world business ethical issues. Readings and lectures will be complemented by class discussion and an ongoing focus on case studies.

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## PHI3643: Ethics and Literature

This course explores the ways in which ethical theory and literature inform one another. We will consider how ethical perspectives are illustrated in works of fiction, and whether fiction itself can be a form of moral philosophy. Students should gain an understanding of several moral theories, develop an appreciation of the importance of fictional narrative to ethical life and theory, and of the potential value of moral philosophy to literary criticism. We will examine both texts in philosophical ethics, by such figures as Sartre, Derrida, and Marth A. Nussbaum, and works of fiction, by such authors as Jane Austen, Virginia Woolf, and Philip K. Dick.

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## PHI3664: Ethics East and West

This course explores ethical theory and some contemporary ethical problems from the perspective of comparative philosophy. The focus will be on Asian approaches to ethics, and how differing views of nature and human nature alter the quest for what is good and for the good life. We will discuss the Hindu, Confucian, Taoist and Buddhist traditions, as well as contemporary Japanese theory.

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## PHI3670: Moral Conflict

This course will examine both the philosophical and practical issues raised by the (apparent) fact that values can come into conflict. We will examine potential tensions both within morality (between liberty and equality for instance) and between morality and other evaluative concerns (such as self-interest). Questions to be considered include: Do moral values necessarily harmonize with one another? Might the idea of all good things co-existing be conceptually incoherent? If one comes to think that moral values are inevitably in tension with one another, what philosophical and practical upshot should this have? How much, if at all, can moral theory help in resolving moral dilemmas? Does liberalism, as some have argued, embody the best form of socio-political response to the plural and conflicting nature of value?

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## PHI3684: The Art of Living

This course will explore different conceptions of the good life and some of the ways that philosophers have proposed one can achieve it (or practice it). We will examine the following questions: What habits or skills does one need to live well and how, if at all, can one go about acquiring them? Is living well primarily a matter of feeling good about one's life or does it involve other more 'objective' components? Should we think of the art of living as identical with morality or should we think of the art of living as something broader and more allencompassing than morality? The course readings will range from the ancient world up to contemporary society.

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Prerequisite: One course in philosophy other than foreign culture. This course approaches religion as a phenomenon common to human experience. Religion is examined from the perspective of reason rather than revelation. Philosophy of religion is concerned with philosophical conceptions of deity, the truth claims of differing religions, of revelation, faith, and the problem of verification.

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## PHI3800: Aesthetics

This course will examine questions such as What is art? What is beauty? What is the nature of aesthetic experience? What is an aesthetic object? What is the role of creativity in making and judging art? Can a work of art have more than one meaning? What is the role of the art critic? and Can art be immoral? We will examine the theories of philosophers and members of the art community from the time of Plato to the present day.

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## PHI3880: Philosophy of Film

Philosophy of Film is a course in the aesthetics of film. The course is divided into four parts:
(1) film aesthetics, focusing on aesthetics vocabulary and the aesthetic components of film; (2) film as art, focusing on art theory and the film artist; (3) film form, focusing on the mechanics and aesthetics of film form, on film genre, and on film theory; (4) film criticism, focusing on criticism, censorship, and critical film reviews.

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## PHI3881: Philosophy of Music

This course introduces students to the variety of philosophical perspectives that have enhanced our understanding of the phenomenon of music. The identity of "music" is explored in light of different cultural, social, and aesthetic contexts. We focus on the linguistic character of music as a symbol form, the source and nature of emotional experiences through music, the cultural and social contexts of music production and reception, and the normative question of how to evaluate musical products and performances. The course offers original insights into music, while teaching basic theoretical insights of linguistic, social-psychological, and cultural philosophy.

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PHI3930: Selected Topics

May be repeated for a total of 12 credits under different topics.
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## PHI3931: East and West: Selected Topics

This course in comparative philosophy examines a specific problem from both Western and Asian perspectives. One topic for each semester will be chosen; topics include freedom, action, the body, the self, and God. Contrasts discovered in different philosophical traditions will be used to identify unquestioned assumptions and formulate creative alternatives to problems.

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This course examines diverse topics in ancient Greek Philosophy, focusing on issues in epistemology, metaphysics, ethics, psychology, or political philosophy. Each semester the course typically addresses a theme, a single author, a school, a comparative analysis, or an assessment of the contemporary relevance of the thought of Greek philosophy. Works studied include those of the Pre-Socratics, Plato, Aristotle, Hellenistic, or Neoplatonic philosophers.

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## PHI4220: Philosophy of Language

Prerequisite: One course in philosophy other than foreign culture. The course explores the lasting significance of the linguistic turn in philosophy, including its different philosophical perspectives in analytic philosophy, speech act theory, semiotics and poststructuralism, and philosophical hermeneutics. Central questions include: What is the role of language for human consciousness and experience? How is linguistic meaning constituted, and what are its essential components? What is the basic structure of language, and how does it affect our access to reality? What is the relation between language and truth? What is the role of language and linguistic meaning for the constitution of culture, society, and politics? The course clarifies concepts like consciousness, meaning, reflexivity, truth, reference, normativity, and social practices through the philosophy of language.

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## PHI4320: Philosophy of Mind

Prerequisite: One course in philosophy other than foreign culture. An attempt to define the relationship between the mind and the body and to explore the relationship between the mindbody problem, freedom and immortality. Topics include the history of the notions of soul, mind, and body; the relation between the brain and the mind; and computer intelligence.

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## PHI4400: The Philosophy of Science

Prerequisite: One course in philosophy other than foreign culture. A philosophical exploration of nature and the foundations of both the natural and the social sciences. Topics will include the structure of scientific explanation, the nature of theories, the possibility of scientific revolution, the idea of a science of human behavior and the relationship between science and human values.

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## PHI4420: Philosophy of the Social Sciences

Prerequisite: One course in philosophy other than foreign culture. An examination of the nature, foundations, and aims of the social sciences. Attention is given to differing accounts of human action, the nature of social explanation, the structure of comparative social analysis, and the conditions for societal evaluation. Special consideration given to the relationship of the social sciences to the humanities and the natural sciences.

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## PHI4453: Philosophy of Psychiatry

Pre-req: One course in Philosophy other than Foreign Culture. This course examines the philosophical and ethical issues raised by the theory and practice of psychiatry. Questions to be considered are: What philosophical and ethical problems are raised by the very idea of "mental health"? In what sense do different approaches to psychiatric care embody different underlying philosophical assumptions? What different philosophical reasons are there for
thinking that psychiatric treatment should be aimed at the mind, the brain, behavior, the self, the soul, or the whole person? What are the philosophical and ethical assumptions behind psychoanalysis? Is psychoanalysis a science, and does it matter if it is not? What philosophical and ethical questions are raised by the use of medication in psychiatric practice?

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## PHI4674: Lies and Self Deception

Prerequisites:At least one of the following (with a B or better grade): PHH 3100, PHH 3400, PHI 3130, PHI 3691 Self-deception is a common phenomenon. In fact, nearly everyone seems to have a friend or family member who they think is self-deceived- e.g., about the faithfulness of his or her lover, about his or her beliefs for (or against) a particular religion or political party, and so forth. This apparent ability to lie to oneself ion the face of the evidence seems to be a rather contemptuous vice. However, recent psychological studies seem to suggest that at least some forms of self-deception are life-enhancing. Thus, it might seem that self-deception can be a virtue. In this course, we examine the nature of self-deception, evaluate its ambiguous ethical status, and reflect on how these insights should affect the way that we live.

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## PHI4905: Directed Individual Study

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May be repeated for 12 credits under different topics.

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## PHI4930: Special Topics in Philosophy

Prerequisite: One course in philosophy other than foreign culture. Topics of importance in philosophy. May be repeated up to 9 credits under different topics. For example: Special Topics: Philosophy of Self.

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## PHI4935: Philosophy Seminar

Prerequisite: One course in philosophy other than foreign culture. An investigation of specific philosophical problems or issues. Topics vary. May be repeated for 12 credits with consent of instructor.

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## PHI4970: Senior Honors Thesis

Research and honors thesis writing under the supervision of a departmental committee. May be repeated for a maximum of 6 credits.

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## PHM2030: Ecological Philosophy

In this course, we examine the conceptual foundations of the way we relate to our environment, alternative ecological frameworks, and the mutual influence of philosophical theory and ecological practice. This course will have five parts: metaphysics, values, approaches to environmentalism, environmental practice in general and environmental practice in Jacksonville and at UNF. The goal of this course is to familiarize the student with
the variety of value approaches one can take toward the natural environment.
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## PHM3020: Philosophy of Love and Sex

This course is an examination of contemporary views of love and sex as well as their roots in earlier philosophical conceptions. The course covers such topics as erotic love and the self, homosexuality and heterosexuality, non-erotic love, and the ways love, sex, and marriage may affect women and men differently.

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## PHM3050: Ethical Issues in Death and Dying

In this course, we take a philosophical approach to death and dying in order to understand and analyze some of the ethical, medical, psychological, and legal issues surrounding death and dying. Topics to be covered include whether life is always preferable to death, deciding how much control we should have over our own deaths, how much control (if any) advance directives should have in directing end-of-life treatments plans, how much money should be spent on expensive treatments which provide little benefit, the right of hospitals to decide when life prolonging treatment is futile, the moral obligation of doctors to tell their patients their prognosis, differential criteria for determining death, and whether one is allowed to bring about or assist in the death of another.

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## PHM3100: Social Philosophy

An analysis and evaluation of different accounts of society, social order, and human sociation. Readings from classical social philosophers and contemporary social theorists.

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## PHM3304: Political Philosophy

An examination of central concepts in political thought, including rights, laws, justice, liberty, obligation, political sovereignty, legitimate authority and the nature of political community. Emphasis is on classical theories and their relation to contemporary issues.

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## PHM3361: Philosophy of Democracy

A philosophical exploration of the nature of democracy. Principal consideration is given to ancient Greek, classical modern and contemporary accounts of democratic theory. Themes in democratic theory are also examined as they pertain to notions such as constitutionalism, group representation, worker self-management, media politics, multiculturalism, feminism, and globalism.

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## PHM3362: Global Justice

This course examines the phenomenon of globalization from a moral and ethical perspective. Questions include the following: What are universal human rights and how are they compatible with the diversity of cultural practices and traditions worldwide? What duties do we have to the global environment? What obligations, if any, do members of affluent countries have to address world hunger and poverty? What are the forms of governance appropriate to a globalized world? Is humanitarian military intervention in the internal affair of another country justifiable? Should we understand ourselves first and foremost as citizens of the world or as

## PHM3400: Philosophy of Law

Prerequisite: One course in philosophy other than foreign culture. Introduction to philosophical issues in legal theory. Focus is on such concepts as justice, rights, civil liberties, authority, responsibility and punishment. Attention is also given to the relation of law to psychiatry and to morality.

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## PHM3500: Philosophy of History

Prerequisite: One course in philosophy other than foreign culture. An examination of major theories of historical development and explanation. Emphasis placed on the relation of history to nature, human nature, freedom, determinism, progress, regression, cyclicity, eschatology, science, morality and religion. Attention also given to different accounts of historical understanding, historical objectivity, historical causation and the subject matter of history.

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## PHM4340: Contemporary Political Philosophy

Prerequisite: One course in philosophy other than foreign culture. This course examines main trends in recent and current political philosophy. Emphasis is on contemporary philosophical treatments of concepts like rights, liberty, justice, equality, democracy, power, the state, and the political itself. These concepts are explored while examining (a) new theoretical developments like communitarianism, feminism, poststructuralism, hermeneutics, discourse and difference theory, and (b) current reformulations of such classical positions as utilitarianism, liberalism, socialism, and republicanism.

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## PHP3786: Existentialism

The course offers a systematic introduction into the major issues and ideas of Existentialist thought, drawing on both philosophical and literary works of Jaspers, Heidegger, Sartre, deBeauvior and Camus, among others. Topics include the definition of human nature, the relation to others, and the possibility of an Existentialist ethics.

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## PHP3790: Pragmatism

Pragmatism is perhaps the most enduring and respected of the distinctly American philosophies. Controversial since its beginnings in the latter half of the 19th century, many contemporary philosophers still embrace it today, in spite of its many persistent critics. In this course, we will examine the writings of major pragmatists, both historical and contemporary. Among the philosophers whose views we will examine are James, Peirce, and Dewey. For each philosopher, our task will be to understand both what the philosopher's views are and how those views relate to the views of other pragmatists. The goal is to arrive at a broad understanding of just what it means to be a pragmatist. In addition, we will critically evaluate each individual's views, and the views of pragmatists more generally.

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thought of Immanuel Kant (1724-1804), focusing on the totality of his "critical" philosophy as expressed in his writings on epistemology, science, metaphysics, ethics, morality, religion, and aesthetics. Attention is also given to Kant's "popular" writings on history, politics and culture.

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## PHP4782: Phenomenology

Prerequisite: One course in philosophy other than foreign culture. This course deals with the central questions and methods of contemporary phenomenology, with emphasis on the primacy of experience, the structures of perception and the construction of the world, with readings in Husserl, Heidegger, Sartre, Merleau-Ponty and others.

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## REL2300: (CD) Comparative Religion

Comparative Religion first introduces students to the major religions of the world, and then seeks points of comparison between those religions in an effort to come to terms with the common bases of human religious experience.

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REL2930: Selected Topics
v. 1-

4
Variable topics in religion.
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REL3040: Introduction to the Study of Religion
3

Prerequisite: REL 3102 and REL 2300
Description: Understood as an advanced course in theory and method, this course will help students bring together the various theorists important to the academic study of religion whom they have studied previously in their course work for the Religious Studies major and help them understand the development of Religious Studies as an academic discipline.

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REL3074: (CD) Myths and Rituals

Description: This course will examine the use of myths, rituals and symbols in the structuring of religious worlds of meaning or "sacred worlds." For this study a "religious" world will refer to a world that is structured from a "sacred" source of life-giving power for the human and natural world. The focus of the course will be the study of Native American stories, practices, and symbols that exemplify a "religious world". The second part of the course studies the effects of modernity on myths, rituals and symbols through a study of the process of secularization. The final part of the course concerns remything processes in postmodern culture through a study of current approaches to reestablishing a sacred context using myths, rituals and symbols.

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REL3101: Religion and Popular Culture
If modern society is, indeed, becoming more secular, what does this mean for the continuing influence or religion? Institutional religion seems to be less and less significant in the lives of individuals, yet the "religiousness" of those individuals persists. This course will explore the presence of themes and functions traditionally associated with religion as they are found in less clearly "religious" aspects of popular culture. This focus will raise questions about the
definition of religion and point to the power dynamics implicit in the act of defining.
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## REL3102: (CD) Religion as Culture

This course will introduce students to one of the primary approaches to Religious Studies: the Social Scientific Study of religion as culture (other, complementary, approaches being History of Religions/Comparative Religions and Philosophy of Religion). We will begin with a unit examining classical theorists (Durkhiem and Weber), current theoretical developments and exploring some key methodological issues. In Units Two and Three we will draw on case studies illustrating religious diversity to refine/apply our understanding of theory and method.

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## REL3120: Religion in America

This course will give students an overview of the variety of religious expressions found in the United States. We will begin with a unit designed to provide historical context, and then move to a unit that explores the development of social and political conflict around religion and religious issues, and conclude with a unit that provides a sampling of current movements and trends in religion. In each unit, we will pay attention to the practice of religion (as opposed to merely emphasizing belief systems) as well as to the relationship between religion and culture. Through readings, lectures, class discussions and a group project, the course explores the growth and diversity in American religion and the conflict produced by that diversity.

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## REL3127: Religion and the Courts

Religion in America is profoundly shaped by a "religious free market" rooted in the separation of church and state and the first amendment religion clauses. Yet, when the first amendment religious clauses were written, they limited only the federal government (Congress). This course will explore the evolution of the first amendment religion clauses from the Bill of Rights, through the fourteenth amendment applying the religion clauses to the states, culminating in a discussion of important religion cases currently before the courts. Special attention will be paid to the role of specific religious traditions in the development of religious freedom, the significance of this legal status of religion for the religious character of American culture broadly and for the distinctive cultures of American religious traditions.

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REL3146: Women and Religion: The Western Experience

Description: This course involves a historical examination of the connection between gender and religion in Western culture. The role of women in the Judaic-Christian tradition will be the focus. Attention will be paid to the transition of emphasis on the female principle in early spiritual movements to the patriarchal structure of contemporary religious expression.

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## REL3148: Religion and Violence

This course will explore the relationship between religion and violence by looking at studies of several different groups (Muslims, Jewish, Christian, and Buddhist) that claim religious justifications for violence. We will then explore some theoretical perspectives aimed at explaining what many see as this paradoxical relationship. Finally, we will look at American cultural religion (sometimes called American Civil Religion) to explore the ways in which Americans have sacralized and memorialized recent acts of ritual violence. There are no prerequisites for this three credit hour course. Instructional methods include readings, lecture,

## REL3213: Hebrew Bible/Old Testament

Students will explore the classical Old Testament texts as well as historical background material and will exchange their views in classroom discussions. This class will seek to encounter the great adventure of the human race discovering itself and its place in the world-a challenge which still confronts us with greater urgency in our own time.

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## REL3241: New Testament

Students will explore the classical New Testament texts as well as historical background material and will exchange their views in classroom discussions. This class will seek to encounter the great adventure of Christianity discovering itself and its place in the world- a challenge which still confronts Christians with even greater urgency.

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REL3293: Selected Topics: Biblical/Scriptural Studies
May be repeated for a total of 9 credits under different topics.
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## REL3310: Asian Religions

This course examines the historical and theological developments within the (1) Islamic, (2) Hindu, (3) Buddhist, (4) Taoist, and (5) Shinto religious traditions. Lectures focus on cultural, philosophical and historical issues relevant to the religion studies. Emphasis is placed upon reading primary source material.

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## REL3330: Religions of India

This course studies the major religions that originated in India or which have had major influence upon the Indian subcontinent. It is a critical analysis of some of the primary scriptures and a respectful comparison with European and American philosophical ideas and religious beliefs. The course will focus upon Hinduism, Buddhism, and Islam, but there will be consideration of the Jains, the Sikhs, the Zoroastrians, and upon Jews and Christians in India.

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## REL3420: Twentieth Century Religious Thought

This course surveys the major movements of religious thought in this century: Idealism, Ethical Theism, Naturalism, Philosophies of History and Culture, Theology of History and Culture, Sociology and Religion, Pragmatism, Phenomenology of Religion, The New Physical and Christian Apologetics, Realist Metaphysics, Neo-Thomism, Logical Empiricism, Existentialism.

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## REL3421: Studies in Contemporary Religious Thought

This course presents three major movements in recent Christian religious thought: process theology, deriving from A.N. Whitehead and C. Hartshorne; existentialist theology, deriving from R. Bultmann and J. MacQuarrie; and transcendental Thomism, using the work of K.

Rahner and B. Lonergan. Developments in the "God is dead" movement will also be considered.

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## REL3443: Liberation Theologies

This course will identify and explore the religious foundations of the Black Awareness, Third World, and Women s Liberation movements. A process of lecture, discussion, scheduled readings, research and student papers will further a theological appraisal of the political, social, moral and religious issues generative of these movements.

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## REL3505: History of Christian Thought

This course surveys the historical phenomenon of Christianity. It traces its growth and influence and gives attention to key figures active in the process, from primitive Christianity, the medieval period and the Reformation, to modern times. It seeks not so much to discern the unfolding of a grand design as to see people dealing with the immediate realities of life, thereby finding or creating meaning in the engagement.

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## REL3930: Selected Topics: History of Religion

May be repeated for a total of 9 credits under different topics.
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## REL3931: Special Topics: Christianity

Description: The content of this course will vary depending on the faculty member offering it but it will focus on the Christian Tradition. It will exemplify the academic approach to the study of religion which, as an interdisciplinary field of inquiry, explores varied meaning-making systems in all their complexity including beliefs, practices, texts, history and social-cultural functions. Rather than approaching religions from the standpoint of a believer seeking "Spiritual Truth," this course and others in the Religious Studies major will help students gain an understanding of the origins of particular traditions, how they function, and what purposes they serve.

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## REL3932: Special Topics:Judaism

Description: The content of this course will vary depending on the faculty member offering it but it will focus on the Jewish Tradition. It will exemplify the academic approach to the study of religion which, as an interdisciplinary field of inquiry, explores varied meaning-making systems in all their complexity including beliefs, practices, texts, history and social-cultural functions. Rather than approaching religions from the standpoint of a believer seeking "Spiritual Truth," this course and others in the Religious Studies major will help students gain an understanding of the origins of particular traditions, how they function, and what purposes they serve.

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but it will focus on the Muslim Tradition. It will exemplify the academic approach to the study of religion which, as an interdisciplinary field of inquiry, explores varied meaning-making systems in all their complexity including beliefs, practices, texts, history and social-cultural functions. Rather than approaching religions from the standpoint of a believer seeking "Spiritual Truth," this course and other in the Religious Studies major will help students gain an understanding of the origins of particular traditions, how they function, and what purposes they serve.

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REL3934: Special Topics: Hinduism

Description: The content of this course will vary depending on the faculty member offering it but it will focus on the Hindu Tradition. It will exemplify the academic approach to the study of religion which, as an interdisciplinary field of inquiry, explores varied meaning-making systems in all their complexity including beliefs, practices, texts, history and social-cultural functions. Rather than approaching religions from the standpoint of a believer seeking "Spiritual Truth," this course and other in the Religious Studies major will help students gain an understanding of the origins of particular traditions, how they function, and what purposes they serve.

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REL3935: Special Topics: Buddhism

Description: The content of this course will vary depending on the faculty member offering it but it will focus on the Buddhist Tradition. It will exemplify the academic approach to the study of religion which, as an interdisciplinary field of inquiry, explores varied meaning-making systems in all their complexity including beliefs, practices, texts, history and social-cultural functions. Rather than approaching religions from the standpoint of a believer seeking "Spiritual Truth," this course and others in the Religious Studies major will help students gain an understanding of the origins of particular traditions, how they function, and what purposes they serve.

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REL3936: Selected Topics: Religious Thought
May be repeated for a total of 15 credits under different topics.
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REL4900: Directed Independent Study Religious Studies

Prerequisite: consent of instructor, program coordinator, and department chairperson. May be repeated for up to 6 credit hours, check enrollment restriction. This course will allow students to design a religious studies course to fit their own needs and interests. Broadly speaking it will examine the phenomenon known as religion in an impartial, academic manner. The course might compare aspects of the variety of the world's religions, ask philosophical questions about the nature of religion, and/or explore the relationship between religions and the larger cultural context in which religions are found.

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to put together their own research project within a supportive setting. Students will select their own topic and spend most of their time working on it. Class sessions will be oriented towards identifying research methods and then strategies for honing a research project and getting it to its final product. The skills developed and, at the culmination of the course, demonstrated, will be those skills the Religious Studies Major is designed to foster: clear writing, thinking, the ability to engage systematically with theoretical models and the ability it see the world through the eyes of someone else.

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REL4930: Advanced Special Topics: Buddhism

Description: The content of this course will vary depending on the faculty member offering it but it will be an advanced study on some aspect(s) of the Buddhist Tradition. It will exemplify the academic approach to the study of religion which, as an interdisciplinary field of inquiry, explores varied meaning-making systems in all their complexity including beliefs, practices, texts, history and social-cultural functions. Rather than approaching religions from the standpoint of a believer seeking "Spiritual Truth," this course and others in the Religious Studies major will help students gain an understanding of the origins of particular traditions, how they function, and what purposes they serve. In this advanced level course, students will build on the skills acquired in their lower level courses.

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REL4936: Advanced Special Topics: Hinduism

Description: The content of this course will vary depending on the faculty member offering it but it will be an advanced study on some aspect(s) of the Hindu Tradition. It will exemplify the academic approach to the study of religion which, as an interdisciplinary field of inquiry, explores varied meaning-making systems in all their complexity including beliefs, practices, texts, history and social-cultural functions. Rather than approaching religions from the standpoint of a believer seeking "Spiritual Truth," this course and others in the Religious Studies major will help students gain an understanding of the origins of particular traditions, how they function, and what purposes they serve. In this advanced level course, students will build on the skills acquired in their lower level courses.

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REL4937: Advanced Special Topics: Judaism

Description: The content of this course will vary depending on the faculty member offering it but it will be an advanced study on some aspect(s) of the Jewish Tradition. It will exemplify the academic approach to the study of religion which, as an interdisciplinary field of inquiry, explores varied meaning-making systems in all their complexity including beliefs, practices, texts, history and social-cultural functions. Rather than approaching religions from the standpoint of a believer seeking â€œSpiritual Truth,â€ this course and other in the Religious Studies major will help students gain an understanding of the origins of particular traditions, how they function, and what purposes they serve, in this advanced level course, students will build on the skills acquired in their lower level courses.

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explores varied meaning-making systems in all their complexity including beliefs, practices, texts, history and social-cultural functions. Rather than approaching religions from the standpoint of a believer seeking "Spiritual Truth," this course and other in the Religious Studies major will help students gain an understanding of the origins of particular traditions, how they function, and what purposes they serve. In this advanced level course, students will build on the skills acquired in their lower level courses.

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## REL4939: Advanced Special Topics: Islam

Description: The content of this course will vary depending on the faculty member offering it but it will be an advanced study on some aspect(s) of the Muslim Tradition. It will exemplify the academic approach to the study of religion which, as an interdisciplinary field of inquiry, explores varied meaning-making systems in all their complexity including beliefs, practices, texts, history and social-cultural functions. Rather than approaching religions from the standpoint of a believer seeking "Spiritual Truth," this course and others in the Religious Studies major will help students gain an understanding of the origins of particular traditions, how they function, and what purposes they serve. In this advanced level course, students will build on the skills acquired in their lower level courses.

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## Undergraduate Courses

## Communication

## Course Descriptions:

## ADV3008: Principles of Advertising

Prerequisite: MMC 1004 and MMC 3105
Description: Theory, principles and functions of advertising; its role in economic, social and marketing structure. Copy and design in newspapers, magazines, radio and television are studied. Projects involving preparation of a simple campaign and its ads.

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## ADV3101: Advertising Creative Strategy

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Prerequisites: ADV 3008 and MMC 1004 and MMC 3105
Description: Preparation and production of advertising copy for all media.
Course Fees: \$10
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## ADV3200C: Advertising Design

Prerequisite: ADV 3008 and MMC 1004 and MMC 3105 and ADV 3101 and ADV 3300 and ADV 3203
Description: The problems of designing graphic material to sell products and services. The preparation of roughs and comps and their presentation. The effective use of illustration, typography, and photography. Open to Literature, Communications, and Marketing majors. Course Fees: \$15

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## ADV3203: Advertising Media Graphics

Prerequisite: MMC 1004 and MMC 3105
Description: This course is for people with little or no experience with current photo editing and design software. Students will become acquainted with the basic functions of these programs. Use of type, color, basic design elements and word/page processing will be covered. Students will gain an understanding of available desktop publishing applications and how to successfully utilize these applications for advertising purposes.
Course Fees: \$15
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## ADV3300: Media Planning

Prerequisite: ADV 3008 and MMC 1004 and MMC 3105 and MMC 4420 or ADV 3500 Description: This course will teach students to critically and strategically plan, select and evaluate media for advertising purposes. The principles of media planning and buying will be emphasized. Students will study audience measurement, media research, audience segmentation and marketing strategies.
Course Fees: \$10

ADV3500: Advertising Research Methods
Prerequisite: ADV 3008 and MMC 1004 and MMC 3105 and MMC 3614
Description: This case-based course involves the acquisition, evaluation, and analysis of information for advertising and marketing decisions. Primary and secondary research projects are designed, executed, analyzed and presented by students. Emphasis is given to six primary areas: understanding the scientific method for answering brand- and marketing communications-based questions; developing explicit and measurable research objectives; developing adequate research plans to solve those objectives; selecting and implementing appropriate methodologies to answer the questions proposed by the objectives, analyzing data; and preparing the reports that communicate the results of the research.
Course Fees: \$10
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ADV4800: Advertising Campaigns
Prerequisite: ADV 3008 and ADV 3101 and MMC 1004 and MMC 4420 or ADV 3500 and MMC 3105
Description: This course is designed to give students an opportunity to plan and execute a fullscale advertising campaign. The students will develop and analyze a specialized advertising plan designed to reach designated target audiences for a specific client. The plan will incorporate all elements necessary to implement an effective campaign.
Course Fees: \$15
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## ADV4930: Special Topics in Advertising

Prerequisites: MMC 3105, ADV 3008 This course will explore important issues pertaining to the theory, research, and practice of advertising in a seminar format. Issues will vary from semester to semester. The course may be repeated up to a total of 6 credits.

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## COM3003: Principles of Communication Studies

Prerequisites: SPC 2608 or SPC 4064
Description: This course will examine the historical and theoretical traditions in the discipline of communication studies. Topics covered in this course will include interpersonal, language, nonverbal, group, intercultural, organizational, mass, and public communication. Students will read and discuss research as well as participate in individual and group learning activities that examine theories of human communication.

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Prerequisite: SPC 2608 or SPC 4064
Description: This course will introduce theories regarding the role of dyadic interaction in both personal and professional contexts. Topics include relational development, perception, selfconcept, listening, language, nonverbal communication, culture, emotions, and conflict.

> Description: Students will survey theory and research relevant to the study of organizational communication. They will also examine how communication processes shape and reshape the activities of organizing within and between organizations.

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## COM3346: Interviewing: Theories and Methods

Prerequisite: SPC 2608 or SPC 4064
Description: This course will examine the research and methods of interviewing, including employment interviewing, journalistic interviewing, and focus group and oral history interviewing. Students will explore the theories of interviewing from both an employer's and an employee's perspective, as well as that of a broadcaster, a news reporter, and an academic. In addition, students will learn theories of the role of the interviewee. This course emphasizes researching and applying interviewing theory.

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## COM3440: Small Group Communication

Prerequisites: SPC 2608 or SPC 4064
Description: This course will introduce theories regarding the interaction of individuals in groups. Assignments and activities will increase understanding of communication in groups encountered in both personal and professional contexts. Topics include systems theory, decision-making, problem-solving, leadership, power and status, parliamentary procedure, and group development.

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## COM4022: Theory and Research Methods in Health Communication

Prerequisite: COM 3042 or by Permission of Instructor This course will focus on theory and research methods in interpersonal, small group, and organizational communication in health contexts. Students will become familiar with theory relating to health communication; examine various research methods used in health communication research; and will demonstrate proficiency with theory by analyzing various health communication studies.

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## COM4301: Communication Theory and Research Methods

Prerequisite: SPC 2608 or SPC 4064
Description: Students will survey major theoretical approaches to and research methods in communication studies. Methods examined and used include content analysis, naturalistic inquiry, narrative analysis, interaction analysis, and triangulation approaches. Students will focus on conceptualizing, designing, interpreting, and reporting research. Differences between quantitative and qualitative research methods and the conceptual and practical knowledge of the communication research process form important areas of the course experience.

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## COM4411: Communication and Popular Culture

Prerequisite: MMC 3614 or Permission of Instructor This course studies media, whether TV, advertising, film sports, music, fiction, or some other means by which a culture is formed. Students could investigate popular icons, rituals, myth, archetypes, formulae, or heroes/heroines as elements in collective experience that reflect and contribute to the formation of a culture's beliefs, mores, customs, attitudes, or laws. How pop culture is constructed, deconstructed, and maintained and how gender, ethnicity, or class are factors in cult reception as media, through its various elements, create apparent needs in a mass
society. The class will apply theories, such as semiotics, genre theory, and ideology to internet media events as means for communicating and forming/reforming culture. A guiding quest is: What do particular popular cultural artifacts communicate and how do they function in the life of culture? Another is: What is gained, damaged, or lost as media participate in virtually every aspect of a culture?

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## COM4430: International Communication

Prerequisite: SPC 2608, SPC 4064, MMC 3614 or permission of instructor Description: This course examines the influence and roles of international communication in our increasingly globalized world. The course treats history, theories, and selected current issues and problems of international communication. It will explore issues in organizations, national sovereignty, international news media, global conflict and cooperation, human rights, diffusion of communication technologies, global medial culture, and international media regulation. Therefore, the course will be informed by interdisciplinary theoretical frameworks and methodological approaches. Students will take part in a simulation of the United Nations in which they act as delegates of various nations and/or UN officials seeking multilateral solutions to complex and often vexing international communication problems.

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## COM4905: Independent Study in Communication Studies

Prerequisite: Consent of Instructor and Department Chair Course subjects in communication studies will vary with each offering. This course may be repeated once for a maximum of six credits.

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## COM4930: Special Topics in Communication Studies

Prerequisites: COM 3003 or permission of instructor This course will feature subjects of importance in communication studies which involve research, readings, student presentations, and discussion in a seminar format. Featured subjects could be race and communication, gender and sexuality in communication, terrorism and communication, or such other subjects that invite scholarly communication inquire and serious focused discussion.

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## JOU3101: Advanced Reporting

Prerequisite: JOU 3204 and MMC 3105
Description: Reporting techniques, interviewing and the basic process of print news production are covered. In addition, the course introduces students to various reporting coverage specialties, including courts, business, government, science and law enforcement. Students will be involved in completing both in-class and out-of-class assignments.
Course Fees: \$10
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## JOU3109: Multimedia Reporting

Prerequisite: MMC 3105 and MMC 1004
Description: Reporting techniques, interviewing and the basic elements of multimedia news production are covered. In addition, the course introduces students to various reporting specialties, including courts, business, government, health, science, and sports. Students will be involved in completing both in-class and out-of-class assignments.
Course Fees: \$10

## JOU3204: Principles of Journalism

This course offers a historical investigation of American journalism. The course examines American journalistic development and history as a product of the social, cultural, historical, and political environment.

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## JOU3302: Writing Editorials, Columns and Critical Reviews

Prerequisite: JOU 3204 and MMC 3105 and JOU 3101
Description: This course introduces students to the practice of persuasive or opinion writing through the writing of editorials, columns and critical reviews.
Course Fees: \$10
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## JOU3308: Magazine Feature Writing

Prerequisite: MMC 3105 and JOU 3109 and MMC 1004
Description: his course introduces students to techniques used in writing feature stories for magazines. Students will be involved in selecting, researching and writing their own stories, which they will attempt to sell to appropriate magazine markets.
Course Fees: \$10
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## JOU3342: Multimedia Storytelling

Prerequisite: MMC 4500 and JOU 3109 and MMC 3105 and MMC 1004
Description: This course will provide continuing instruction in reporting techniques learned in JOU 3109. Students will engage in the reporting process and publish their work across the print, broadcast/cable, and Internet outlets of the Department of Communication.
Course Fees: \$30
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## JOU3925: Applied Journalism (Print)

Prerequisite: JOU 3204 and MMC 3105 and JOU 3101
Description: his course provides students with a supervised experience in news writing and editing utilizing either the campus newspaper or another local newspaper or magazine. Students will receive hands-on experience in writing feature and news as well as some specialized stories.
Repeatability: Applied Journalism may be repeated up to six credits, but not for major credit.
Course Fees: \$10
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## JOU4117: Seminar in Reporting Techniques

Prerequisite: JOU 3204 and MMC 3105 and JOU 3101
Description: Students enrolled in this course will explore advanced, topical news reporting and writing techniques. Topics may include precision journalism, diversity journalism, research techniques, interviewing techniques, and various reporting, specialties, such as sports, the arts, public affairs, or the environment.

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Prerequisite: JOU 3204 and MMC 3105 and JOU 3101
Description: This course emphasizes news selection and judgment, creativity in editing and presentation, and design for the World Wide Web. Students will complete print and online publications using student reporting assignments.
Course Fees: \$10
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## JOU4223: News Editing and Design

Prerequisite: MMC 3105 and JOU 3109 and MMC 1004
Description: This course emphasizes news selection, copy editing, and design for print-and web-based news publications. Students will be involved in completing both in-class and out-of-class assignments.
Course Fees: \$10
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## JOU4228: Advanced News Design

Prerequisite: MMC 3105 and JOU 3109 and JOU 4223 and MMC 1004
Description: Advanced News Design is a continuation of News Editing and Design. This course emphasizes advanced design techniques for print- and Web-based news publications. Students will be involved in completing both in-class and out-of-class assignments.

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JOU4348: Advanced Multimedia Storytelling
Prerequisite: MMC 3105 and MMC 4500 and JOU 3109 and JOU 3342
Description: This course will provide continuing instruction in reporting techniques learned in JOU 3109 and JOU 3342 . Students will engage in the reporting of more complex topics through long-form magazine style storytelling and publish their work across the print, broadcast/cable, and Internet outlets of the Department of Communication. This course may be repeated one time for 3 additional credits.
Course Fees: \$30
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## JOU4412: Advanced Newspaper Design

Prerequisites: MMC 3614, MMC 3105, JOU 3204, JOU 3101 and JOU 4202. Advanced Newspaper Design is a continuation of Advanced Newspaper Editing (JOU 4201). This course emphasizes news selection and judgment, creativity in editing and presentation, and design for the World Wide Web. Students will complete print and online publications using student reporting assignments. (A material fee of $\$ 10$ will be assessed.)

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## JOU4930: Special Topics in Journalism

Prerequisites: MMC 3105, JOU 3204 This course will explore important issues pertaining to the theory, research, and practice of journalism in a seminar format. Issues will vary from semester to semester. The course may be repeated up to a total of 6 credits.

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This course is designed to acquaint the student with the nature of mass media systems and their impact on society. The course seeks to generate an understanding of production methods, economic influences and behavioral effects of media.

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## MMC2701: (CD) Communicating Across Cultures

This course will review the issues involved in effective cross-cultural communication, at the levels of both interpersonal communication and communication through the mass media. Students will be encouraged to explore their own cognitive barriers to communicating across cultures and ways to overcome those barriers.

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## MMC3105: Advanced Writing for the Media

This course is an advanced, skills-based writing experience designed to prepare students to enter disciple-specific writing courses at the upper division. The course focuses on writing techniques used by communications professionals. Weekly lectures and small, intensive writing labs enable students to develop strong, professionally oriented writing skills. (A material fee of $\$ 10$ will be assessed.)

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## MMC3200: Law and Ethics of Communcations

Prerequisite: MMC 1004 and MMC 3105
Description: Study of mass communications ethics, codes and performance. First Amendment law, libel, privacy and other legal aspects of communications are explored. Case-study questions.

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## MMC3402: Political Advertising

In this course students will examine the works of those who produce, cover and consume political advertising. Through the course readings and written assignments, through class discussion, and through viewing political ads produced over the past 50 years, students will recognize the many media strategies that are used to package candidates. (A material fee of $\$ 10$ will be assessed.)

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MMC3614: Media Theories and Effects
Prerequisite: MMC 1004 and MMC 3105 This course introduces students to mass media theories scholars use to study the effects of media messages. Students will also read and discuss research illustrating the media's impact on individuals, society, and cultures. Topics include the media's relationship to stereotyping, images of sexuality, violence, values, and globalization.

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## MMC3620: International Study in Communications

Students can earn up to six hours of credit through the study of the international issues involved in both interpersonal and mass communication. Prior approval awarded on a case-by-case basis, is necessary. The course may be repeated for credit. The content of the course

Prerequisite: MMC 1004 and MMC 3105 and ADV 3008 or PUR 3000 or MMC 4500 Instructor permission is required for enrollment in this course. In addition, the student must have junior or senior standing in the department and a major GPA of 2.0 or higher.
Description: This course prepares students for internship placement in approved organizations. Students explore the core ethical principles, skills and organizational culture related to their profession. Detailed individual research projects supplement classroom discussion in preparation for field placement of student.

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## MMC4251: Creating Health Messages for Mass Media

Prerequisite: Completion of MMC 3105 with a grade of C or higher. This course prepares communication majors to create health-related messages to be disseminated in various media to specific target audiences for specific strategic objectives. Students will: develop a health topic using major medical databases; create a report targeted for a specific audience; gain increased awareness of the opportunities and requirements for health communication careers; and increase their own health literacy levels.

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## MMC4420: Mass Communications Research

Prerequisites: MMC 1004 and MMC 3105 and MMC 3614 This course introduces students to mass communications research techniques and topics. Students will explore various social science research methods, including surveys, experiments and field research. Students will be expected to create and implement one or several research projects during the course. (A material fee of $\$ 10$ will be assessed.)

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## MMC4424: Honors Research in Mass Communications

Prerequisites: Admissions to Honors in the Major-Mass Communications, MMC 3105 with "B" or higher. Honors Research in Mass Communications enables students to conduct research in Mass Communications under the direct supervision of qualified faculty. Students develop their ideas, conduct appropriate research, and write an extended research report. GPA of 3.5, enrollment in Honors Program, and enrollment in BS in Mass Communication required. (A material fee of $\$ 10$ will be assessed.)

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MMC4500: History of Mass Communication
Prerequisite: MMC 1004 and MMC 3105
Description: This course offers a historical investigation of mass communication in the United States. The course examines American media development and history as a product of the social, cultural, historical, and political environment.

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new communication technologies in the United States and how they are incorporated into the interactive marketing communication process. In addition to marketing communication implications, this course provides the critical perspective of new media technologies as well.
Course Fees: \$10
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MMC4905: Independent Study

Prerequisite: Consent of instructor or department chairperson. May be repeated for a maximum of 12 credits under different topics.

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## MMC4930: Special Topics in Mass Communication

Prerequisites: MMC 3614, MMC 3105 and consent of instructor This course will explore important issues pertaining to the study of mass communication in a seminar format. Topics and issues will vary from semester to semester. The course may be repeated up to a total of 6 credits.

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## MMC4975: Internship Senior Project

Prerequisite: MMC 1004 and MMC 3105 and MMC 3200 and MMC 3614 and MMC 3942 This course is the capstone for the Communication Major. An internship (or senior project) enhances knowledge and skills acquired from coursework through a semester-long period of supervised field experience, extensive research, or both. A minimum of 210 hours of work at the internship site are required in addition to weekly progress reports, midterm and final evaluations from the professional supervising the intern, and a portfolio in which students detail and provide self-assessment of their experiences and relate the internship experience to knowledge of theory and its application gained from the major curriculum. In rare and unique cases, a faculty-supervised research paper will be approved in lieu of internship.

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## PUR3000: Principles of Public Relations

Survey of principles, policies and practice of public relations, focusing on planning, publics, techniques and agencies utilizing public relations. Individual or team projects involving actual public relations "clients".

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## PUR3100: Public Relations Writing

Prerequisites: PUR 3000 and MMC 3105. Survey and practice in techniques of publicity writing in public relations. Layout of actual publicity campaign and preparation of information kits. Stress on actual uses with cooperating agencies. (A material fee of $\$ 10$ will be assessed.)

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## PUR4400: Crisis Communications

Prerequisites: PUR 3000 and MMC 3105. Students will analyze the potential for crisis in various types of organizations. Students will examine factors in crisis situations, including development of crisis plans, coordination of internal disciplines, collection and dissemination of information, and restoration of public confidence. Research emphasis is on written and oral presentations.

## PUR4450: Public Relations and Event Planning

Prerequisite: PUR 3000 and PUR 3100 and MMC 3105 and MMC 1004
Description: This course is an introduction to the planning and production of special events with an emphasis on public relationsâ $€^{\mathrm{TM}}$ principles, strategies and techniques. Students will be introduced to leaders in the field, prepare budgets, learn techniques for executing largeand small-scale projects and prepare an event plan. The course will culminate with a special event at the end of the semester.
Course Fees: \$15
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## PUR4800: Public Relations Campaigns

Prerequisites: MMC 3105, PUR 3000, PUR 3100, PUR 4801 or Permission of Instructor. This course involves students in the practical analysis and development of specialized communication materials aimed at gaining attention and support from target audiences. Students will analyze and develop campaign plans. As a member of a public relations team, they will select a client from the community, design a complete public relations campaign, and make a presentation to the client, including a plan for implementation. (A material fee of \$15 will be assessed.)

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## PUR4801: Public Relations Cases

Prerequisites: PUR 3000, MMC 3105 Preparation and analysis of various public relations cases so as to study the decision-making in public relations as well as how various elements enter into the managerial and technical side of public relations. Part of course will use agency or team approach, along with simulation and other role-playing techniques.

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## PUR4930: Special Topics in Public Relations

Prerequisites:MMC 3105, PUR 3000 This course will explore important issues pertaining to the theory, research, and practice of public relations in a seminar format. Issues will vary from semester to semester. The course may be repeated up to a total of 6 credits.

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## RTV3000: Principles of Broadcasting

This course is a study of the processes, elements, uses and impact of broadcasting, cablecasting and multimedia. The course includes an introduction to broadcasting history, theory, research and new technologies.

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## RTV3101: Advanced Broadcast Writing

Prerequisites: MMC 3105, MMC 3614, RTV 3000 and RTV 3220C. This course is designed to provide a thorough understanding of the principles and practice of broadcast writing. Students will learn through practical exercises in various broadcast writing formats. The emphasis is to help the student develop critical skills in evaluating their own work and the work of their peers and to learn how to work as a team to create a script. (A material fee of $\$ 10$ will be assessed.)

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Prerequisites: MMC 3105. This course introduces students to the practices of television production, including camera and lighting, as well as production planning and execution through the utilization of the crew system. (A material fee of $\$ 30$ will be assessed.)

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## RTV3228: Multi Camera Video Production

Prerequisite: MMC 4500 and RTV 3260 and MMC 1004 and MMC 3105
Description: This course will provide continuing production in production techniques learned in RTV 3260. The course focuses on the direction and production of multiple-camera studio video project including directing, producing, camera operation, audio, and live-to-tape switching.
Course Fees: \$30
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## RTV3234: Multimedia Announcing and Performance

Prerequisite: MMC 1004 and MMC 3105 and MMC 4500 This is a performance course designed to teach students how to use their voices for radio and television. It includes exercises in announcing, news reading and interviewing. It focuses on how to deliver clear, well-enunciated narrations in a conversational style, emphasizing proper use of pitch, diction and interpretation.
Course Fees: \$30
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## RTV3260: Single Camera Video Production

Prerequisite: MMC 4500 and MMC 1004 and MMC 3105
Description: This course addresses direction and production of single-camera video projects including producing, camera, audio, lighting, and non-linear editing.
Course Fees: \$30
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## RTV3301: Producing TV News

Prerequisite: RTV 3000, RTV 3101 Students will learn the skills most in demand by broadcasters, functioning as Producers and Writers behind the scenes in creating Radio and Television news programs for broadcast and cable at both the network and local level. (A material fee of $\$ 30$ will be assessed.)

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## RTV3324: Public Affairs Television

Prerequisites: MMC 1004 and MMC 3105 and MMC 4500 This course will use a performance instruction technique that will enable students to produce a regular public affairs television program. The program will be aired on commercial television. Students may repeat the course once. (A material fee of $\$ 30$ will be assessed.)

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Description: Students will learn the economic activities and management techniques of various aspects of the broadcast industry by studying business structures and practices of radio and television operations in different markets.
Course Fees: \$30
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## RTV4221: Advanced Television Production

Prerequisite: MMC 4500 and RTV 3260 and RTV 3228 and MMC 1004 and MMC 3105 Description: This course will provide continuing instruction in techniques learned in RTV 3260 and RTV 3228. Students will learn and apply advanced techniques in production and directing television programs and video projects both in studio and on-location.
Course Fees: \$30
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## RTV4403: Media Criticism

Prerequisite: MMC 1004 and MMC 3105 and MMC 4500 This course is designed to provide the student with an intensive critical study of media, in particular television, film advertising and music video. In this class the student will be building and refining both their critical interpretation skills and their writing proficiency through a series of discussions, critical analysis, screenings and papers.

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## RTV4408: Non-Fiction Programs: A Critical Analysis

Prerequisites: RTV 3000, RTV 3101 or permissions of instructor. This course is designed to provide students with an intensive study of non-fiction programs. In this class students will be building and refining both their critical interpretation skills and their writing proficiency through a series of discussions, critical analysis, screenings and papers.

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## RTV4930: Special Topics in Electronic Media

Prerequisites: MMC 1004 and MMC 3105 and MMC 4500 This course will explore important issues pertaining to the theory, research, and practice of electronic media in a seminar format. Issues will vary from semester to semester. The course may be repeated up to a total of 6 credits.

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## SPC2608: Fundamentals of Speech

Introductory course emphasizing current theories of communication, audience analysis and persuasion. Preparation and presentation of speeches on topics of current concern. Conferences, evaluations and videotape replay provide personalized assistance. May be taken to satisfy teaching certification requirement in speech. (A material fee of $\$ 5$ will be assessed.)

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## SPC3540: Theories of Persuasion

Prerequisite: SPC 2608 or SPC 4064
Description: he primary goal of this course is to provide students with a solid grounding in theories, principles, and strategies of social influence as they apply to everyday contexts in which influence attempts take place. Students should gain familiarity with findings from empirical investigations on persuasion, social influence, and compliance gaining, and will learn
about strategies and techniques of persuasion relation to a wide variety of real-life communication contexts, situations, and settings.

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## SPC4064: Public Speaking for Professionals

This course examines speaking as a workplace activity and provides students with experience in public speaking. The lectures will concentrate on communications theory, including but not limited to models of communication, interpersonal communication, group communication, persuasion, decision making and audience analysis and adaptation. The labs will be performance oriented. (A material fee of $\$ 5$ will be assessed.)

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## Undergraduate Courses

## Physics

## Course Descriptions:

## AST2002: Basic Astronomy

Prerequisite: High school algebra and trigonometry
Description: This course is a survey of current knowledge of the astronomical universe and of how that knowledge has been accumulated. Students will study the solar system, stars, and galaxies, and will review contemporary research and exploration. This course will include occasional observing sessions and there will be three hours of lecture each week. Availability: This course is normally available Summer, Fall and Spring terms.

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AST2002L: Basic Astronomy Laboratory

Co-requisite: AST 2002 or permission of the instructor
Description: This is an introductory laboratory course with exercises on vision and optics, telescope structure and design, and observing the sun, moon, planets, nebula, and other sky objects. Some required observing sessions will occur at times other than the scheduled laboratory class. This course will include three hours of laboratory.
Availability: This course is normally available Summer, Fall and Spring terms.
Course Fees: \$25
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## AST3217: Astrophysics I

Prerequisite: PHY 2049 with a minimum grade of " B " or permission of instructor Co-requisite: PHY 3101 or permission of the instructor Description: This course is an upper-level introduction to Astrophysics. It presents the physical and mathematical treatment of the properties of the universe and the bodies within it, including the formation, structure, and evolution of stars, stellar nucleosynthesis, binary stars, white dwarfs, neutron stars, and black holes.
Availability: This course is normally available alternate years only.
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## AST3402: Astrophysics II

Prerequisite: AST 3217 or permission of the instructor
Co-requisite: PHY 3101 or permission of the instructor
Description: This course is part of a two-semester upper-level introduction to the Astrophysics sequence. It presents the physical and mathematical treatment of the properties of the universe and the bodies within it, including a study of the formation, structure and evolution of galaxies, galactic and extragalactic media, clustering and large scale structure and cosmology.

Availability: This course is normally offered alternate years only.

Description: This course is an introduction to the Earth as a system including the lithosphere, atmosphere, and the hydrosphere. Topics for discussion will include the formation of the Earth and the evolution of its landscape, the atmosphere and principles of weather and climate, the dynamic ocean, comparison with other bodies in the Solar System and human impact on the Earth systems.
Availability: This course is normally offered Summer, Fall and Spring terms.
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## ESC2000L: Earth Science Lab

Co-requisite: ESC 2000
Description: This course is the laboratory course to accompany the Earth Science ESC 2000 lecture course. Topics to be investigated are the scientific method, rocks and minerals, the history of Earth, plate tectonics, earthquakes, mapping, oceanography, atmospheric physics and properties of the Solar System.
Availability: This course is normally available Summer, Fall and Spring terms.
Course Fees: \$25
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## PHY1020: Introduction to Physics

Description: This course is an introduction to classical physics involving a study of motion, fundamental forces, conservation laws of energy and momentum, light waves, electricity and magnetism. Some of the history of physics will be included in addition to brief biographies of a select group of leading classical physicists. An exposure to the philosophy of science and the scientific method forms an essential component of this course. The course is intended for students who have had no previous physics course, including high school physics. This course cannot be used by natural sciences majors to satisfy degree requirements.
Availability: This course is normally available Fall and Spring terms only.
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## PHY1020L: Introduction to Physics Lab

Co-requisite: PHY 1020
Description: This course is the laboratory that explores the topics covered in the PHY 1020 Introduction to Physics lecture course. The experiments will involve laboratory exercises dealing with kinematics of free fall and projectile motion, forces and motion, laws of conservation of energy and momentum, optical laws of reflection and refraction, the behavior of lenses, basic electric circuits, electromagnetic forces, standing waves, and heat phenomena.
Availability: This course is normally available Fall and Spring terms only.
Course Fees: \$25
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PHY1024: Introduction to Physics for New Physics Majors

Description: This course will introduce students to the exciting field of physics, especially current topics of interest in physics research at UNF and beyond. Students will be mentored on how to succeed in physics and the many opportunities available to physics majors before
and after their graduation with a degree in physics.
Availability: This course is normally available Fall term only.
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## PHY2048: Calculus-based Physics I

Prerequisite: MAC 2311; high school physics with a minimum grade of "B" or PHY 1020 Co-requisite: MAC 2312
Description: This course is an introduction to the fundamental laws and theories of physics with an emphasis on mechanics, heat and wave motion. This course will be four hours of lecture.
Availability: This course is normally offered Fall and Spring terms only.
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## PHY2048L: Calculus-based Physics I Lab

## Co-requisite: PHY 2048

Description: This is the laboratory course that accompanies the PHY 2048 course. This course will be three hours of laboratory.
Availability: This course is normally offered Fall and Spring terms only.
Course Fees: \$25
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## PHY2049: Calculus-based Physics II

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Prerequisite: PHY 2048 and MAC 2312
Description: This course is a continuation of PHY 2048 with emphasis on electricity, magnetism and light. This course will be four hours of lecture.
Availability: This course is normally offered Fall and Spring terms only.
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## PHY2049L: Calculus-based Physics II Lab

Co-requisite: PHY 2049
Description: This course is the laboratory course that accompanies PHY 2049. This course will be three hours of laboratory.
Availability: This course is normally offered Fall and Spring terms only.
Course Fees: \$25
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## PHY2053: Algebra-based Physics I

Prerequisite: Either MAC 1105 and MAC 1114 or just MAC 1147; high school physics with a minimum grade of "B" or PHY 1020
Description: This course is an introduction to mechanics, waves and heat. Calculus is not required in this course. This course will be three hours of lecture.
Availability: This course is normally offered Summer, Fall and Spring terms.
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Description: This course is the laboratory course that accompanies PHY 2053. This course will be three hours of laboratory.
Availability: This course is normally offered Summer, Fall and Spring terms.
Course Fees: \$25
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## PHY2054: Algebra-based Physics II

Prerequisite: PHY 2053
Description: This course is an introduction to electricity, magnetism, light and modern physics. Calculus is not required in this course. This course will be three hours of lecture.
Availability: This course is normally offered Summer, Fall and Spring terms.
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## PHY2054L: Algebra-based Physics II Lab

## Co-requisite: PHY 2054

Description: This course is the laboratory course that accompanies PHY 2054. This course will be three hours of laboratory.
Availability: This course is normally offered Summer, Fall and Spring terms.
Course Fees: \$25
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## PHY2930: Selected Topics in Physics

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Prerequisite: Permission of the instructor
Description: This course contains variable topics in physics that are appropriate for students in their freshman or sophomore years.

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## PHY3101: Modern Physics

Prerequisite: PHY 2049
Co-requisite: MAC 2313
Description: This course will deal with fundamental developments in physics during the period from 1890 - present, which include relativity, atomic theory and structure, X-rays, the origin of quantum theory, radioactivity and nuclear reactions. This course will be three hours of lecture. Availability: This course is normally offered Fall term only.

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## PHY3101L: Modern Physics Laboratory

Co-requisite: PHY 3101 or permission of instructor
Description: This course studies experiments that explore radiation and the atomic nature of matter, including the photoelectric effect, atomic emission and absorption spectroscopy, the Franck-Hertz experiment, electron spin resonance and nuclear radiation. This course will be four hours of laboratory.
Availability: This course is normally offered Fall term only.
Course Fees: \$25
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# PHY3220: Classical Mechanics <br> Prerequisite: PHY 2049 and MAC 2312 <br> Co-requisite: MAP 2302 <br> Description: This course teaches how the principles of Newtonian mechanics are applied to the motion of particles and systems of particles, harmonic oscillators, noninertial reference systems, rigid-body motion, Lagrange's equations with applications and computational methods applied to mechanics. This course will be four hours of lecture. <br> Availability: This course is normally offered Spring term only. <br> Back to Top 

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## PHY3320: Electricity and Magnetism

Prerequisite: PHY 2049 and MAC 2313
Description: This course is a study of electromagnetic phenomena; electrostatic potentials from Laplace's and Poisson's equations; effects of dielectric and magnetic materials; magnetic fields and potentials; induced emf; Maxwell's equations; electromagnetic radiation and waves; and computational methods applied to electricity and magnetism. This course will be four hours of lecture.
Availability: This course is normally offered Fall term only.
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## PHY3424C: Optics with Laboratory

Prerequisite: PHY 2049 and MAC 2313
Description: This course is a study of geometrical and physical optics including an investigation of mirrors, lenses, optical instruments, interference, diffraction, polarization and computational methods applied to optics. The course consists of three hours lecture and three hours laboratory each week.
Availability: This course is normally available Fall term only.
Course Fees: \$25
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## PHY3722C: Electronics for Scientists

Prerequisite: PHY 2049 and MAC 2312
Description: This is an introductory course in electronic design and circuitry with emphasis on common scientific instrumentation. This course is three hours of lecture.
Availability: This course is normally available Spring term only.
Course Fees: \$25
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## PHY4523: Thermodynamics and Statistical Mechanics

Prerequisite: PHY 3101 or CHM 4410C, and MAC 2313
Description: This course is an introduction to thermodynamics, statistical mechanics and kinetic theory, including ensembles and partition functions. This course will be three hours of lecture.
Availability: This course is normally offered Fall term only.
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## PHY4604: Quantum Mechanics

Prerequisite: PHY 3101, MAC 2313, and MAP 2302
Description: This course is a single semester introduction to the theory of quantum mechanics, including its postulates, operators and eigenvalues, exactly soluble potentials, scattering,
angular momentum, atomic structure, and other applications. This course will be four hours of lecture.
Availability: This course is normally offered Spring term only.
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#### Abstract

PHY4802L: Advanced Physics Laboratory Prerequisite: PHY 3101L Description: This course consists of experiments in condensed matter, nuclear and other areas of physics research, including computational physics and optical physics. This course will teach students how to use the computer to control experiments and obtain and analyze data. This course will be six hours of laboratory. Availability: This course is normally available Spring term only. Course Fees: \$25 Back to Top


## PHY4900: Directed Independent Study-Honors in Physics Research

 v. 3-Prerequisite: Permission of the instructor
Description: This course is for students who wish to conduct independent research in physics with a faculty mentor. This course must be completed before the student writes an Honors Thesis.
Repeatability: This course may be repeated one time for up to 6 credits.
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## PHY4905: Directed Independent Study in Physics

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Prerequisite: Permission of the instructor
Description: This course involves participation in research investigation under the supervision of an instructor.

Repeatability: This course may be repeated up to 12 hours for credit under different topics. Availability: This course is normally offered Summer, Fall and Spring terms.

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## PHY4910: Physics Research and Seminar

Prerequisite: Junior or senior standing and consent of instructor; PHY 3101L
Description: This course involves projects in experimental, theoretical, or computational physics conducted in collaboration with physics faculty. This course requires an oral and written research report.
Availability: This course is normally offered Spring term only.
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## PHY4930: Selected Topics in Physics

Prerequisite: Permission of the instructor
Description: This course involves the applications of physics to topics of interest, especially to recent advances in physics.
Repeatability: This course may be repeated up to 12 hours for credit under different topics.
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Prerequisite: Junior or Senior physics major standing with a minimum GPA of 3.0; permission of the chairperson of the Department of Physics
Co-requisite: PHY 3101 and PHY 3101L
Description: This course provides junior and senior year physics majors hands-on experience involving the following kinds of work: scientific research, engineering research and development, medical physics, laboratory, scientific and/or engineering related problemsolving, scientific and/or engineering related computer programming, environmental physics, astrophysics and other physics related work in a research laboratory outside of UNF or in a company environment.
Availability: This course is normally available Summer, Fall and Spring terms.
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## PHY4970: Directed Independent Study- Honors in Physics v. 3Thesis

Prerequisite: Permission of the instructor and PHY 4900
Description: This course is for students who wish to conduct independent research in physics with a faculty mentor. This course must be completed with an Honors Thesis and culminates in graduating with the designation of Honors in Physics.
Repeatability: This course may be repeated for up to 12 credits.

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## PHZ3113: Mathematical Physics

Prerequisite: PHY 2049 and MAC 2313
Co-requisite: MAP 2302
Description: This course is an application of mathematical methods to physics in areas including vector analysis, matrices and group theory, complex analysis, Fourier series and transforms, special functions, boundary-value problems, and numerical methods. This course will be three hours of lecture.
Availability: This course is normally offered Fall term only.
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## PHZ3404: Solid State Physics

Prerequisite: PHY 3101
Description: This course is a study of the electrical, mechanical, optical and thermal properties of solids, and selected applications. This course will be three hours of lecture.
Availability: This course is normally offered alternate years.
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PHZ4160: Advanced Topics in Physics
Prerequisite: PHY 3220, PHY 3320, and PHY 4604
Description: This course is a study of advanced topics in classical mechanics, electricity and magnetism, and quantum mechanics. The course is intended primarily for those physics majors who plan to attend graduate school in physics. This course will be four hours of lecture.

Availability: This course is normally offered on demand only.
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Prerequisite: PHY 3101 and PHY 4604
Description: This course is an introductory course emphasizing nuclear structure, radioactivity, radiation detection methods, and nuclear reactions, and applications. This course will be three hours of lecture.
Availability: This course is normally offered alternate years only.
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## PSC4905: Directed Independent Study

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Prerequisite: Permission of the instructor
Description: This course involves variable topics as related to recent advances in physics. Repeatability: This course may be repeated up to 12 credits with different topics.

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## Undergraduate Courses

## Criminal Justice

## Course Descriptions:

## CCJ2002: Crime in America

This course is an introduction to the study of criminology/criminal justice. The course includes topics on: the crime problem in the U.S.; crime patterns and criminal behaviors; explanations for crime; systems of justice designed to deal with crime and their underlying philosophies; and preventive strategies.

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## CCJ3014: Criminological Theory

Prerequisite: CCJ 2002. This course examines the ways crime has been explained in western society, with primary emphasis on scientific explanations since the 1700s. The entire range of criminological theory, from demonism to Marxism, and the social policy implications of each, will be addressed, along with the basics of theory construction and evaluation.

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## CCJ3023: Introduction to Criminal Justice

Prerequisites: CCJ 2002 This course explores the historical, philosophical, legal, and contemporary operation of the American criminal justice system. Particular emphasis is placed on research examining the primary institutions and actors of the criminal justice system in policing, courts, and corrections. The course also explores crime measurements, a profile of crime rates and victims, and an examination of offender and inmate populations.

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CCJ3700: Research Methods in Criminology \& Criminal Justice
Prerequisite: STA 2014 This course is a general introduction to research methods used in criminology and criminal justice. The course emphasizes the application of theory and research, sampling, measurement, data collection, research designs, and ethics of research. Specific examples from the field of criminology and criminal justice will be utilized.

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CCJ3930: Criminal Justice Junior Seminar
Prerequisite: CCJ 2002. This seminar is intended to introduce new majors to the discipline, to the program at UNF, to various careers in the field, and to knowledge sets designed to enhance performance both in the classroom and in professional life. This course should be taken as early in the student's career as possible.

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This course involves analysis of variable topics in criminal justice. May be repeated for a total of 12 credits under different topics.

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## CCJ4283: Philosophy of Law and Justice

An exploration of the philosophical bases of jurisprudence, with special attention to the relation between law, order and justice; an analysis of the moral rationale for punishment and the legalization of morality.

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CCJ4604: Crime and Mental IIIness
This course examines the relationship between various forms of mental illness and crime, especially felony crime. Emphasis will also be placed on the role of the insanity defense on criminal trials involving capital crimes such as homicide and rape. Public opinion regarding the insanity defense will also be considered.

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## CCJ4641: Organized Crime

This course explores criminality undertaken by groups of individuals strategically associated for the purpose of criminal activity. Historical origins of organized crime in the United States are presented along with structural analyses of its causes. Case studies of specific criminal groups are analyzed with regard to criminological theory. Strategies for fighting organized crime and its depiction in popular culture are also addressed.

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## CCJ4662: Minorities and Crime

This course examines the role of crime (primarily felony crimes) in the lives of various minorities within American society. Emphasis will be placed on both offense and victimization patterns within the black and Hispanic communities. The victimization of women will also be examined.

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## CCJ4663: Women and Crime

This course examines women as criminal offenders, victims and employees of criminal justice agencies. Emphasis will also be given to the topic of treatment of women in the criminal justice system by the police, courts and prison system.

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This course examines various definitions and types of white-collar offenses in American society. Special emphasis is given to patterns of such offenses among the most wealthy and powerful societal organizations, the general issue of economic crime and its control and the enforcement of white-collar related laws.

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This course is designed to examine the various expressions of violence within the family structure, including child abuse, spouse abuse, and elder abuse. Topics discussed include the psychological and social causes of domestic violence, the transmission of violence from generation to generation, and strategies for alleviating intrafamilial aggression.

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## CCJ4905: Directed Independent Study

Prerequisite: Permission of the program director. Independent study of some aspect of or issues in criminal justice, supervised by a member of the faculty specializing in the area chosen by the student. May be repeated for a total of 12 credits under different topics.

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## CCJ4909: Criminal Justice Honors Research

Prerequisites: Admission to the College of Arts and Sciences Honors Program, CCJ 3014, and SYA 3300. This course provides a vehicle for students admitted to the Criminal Justice Honors program to work closely with a sponsoring faculty member on an individually supervised research project. Students must enroll for six hours total, which will be usually spread over two semesters. Repeat up to six credits.

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CCJ4931: Controversial Legal Issues
An analysis of selected topics wherein legal decisions are the focus for conflicting ideological, political, moral or economic forces. Designed to enhance the student's understanding of the legal forum's role in the resolution of social conflict.

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CCJ4935: Special Topics in Criminal Justice and Administration

Contents of this course vary as instructors present different developments, problems and controversies relating to the administration of the criminal justice system. May be repeated for a total of 12 credits under different topics.

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## CCJ4938: Special Topics in Criminology

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Forum for special course offerings in the causes and impact of criminal conduct. May be repeated for a total of 12 credits under different topics.

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## CCJ4939: Pre-Internship in Criminal Justice

Prerequisites: Must have completed or be concurrently completing core courses 2.0 GPA (overall) Corequisites: Permission of Instructor This course prepares students for internship placement in approved organizations. Students explore specific agency missions as they relate to core content and academic research. Detailed individual research projects supplement classroom discussion in preparation for field placement of student.

## CCJ4940: Internship in Criminal Justice

Prerequisite: Completed all core required courses, 2.0 GPA (overall), and permission from instructor. A planned program of experience in one or more criminal justice agencies. Supervised placement consisting of a total of 260 hours in-the-field work experience (approximately 20 hours per week) resulting in an in-depth written report in which work experiences are related to theoretical perspectives. Required for all pre-service students.

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## CJC3410: Methods of Offender Treatment

An analysis of the many approaches, methods and techniques that may be employed in the correctional process. Also, an analysis of the rehabilitation process in relation to the offender's experience with the police, the courts, correctional institutions or service and the general public.

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## CJC4015: Correctional Systems and Processes

Prerequisite: CCJ 3023. This course is an in-depth study of corrections as a series of interlocking systems and the processes that unite them. Focus will be on current American practices, but attention will also be paid to alternative models both domestic and international.

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## CJC4510: Punishment and Society

The course explores historical and contemporary dimensions of society and punishment. Specifically, the course examines the philosophies, practices, and procedures of corrections with a primary emphasis on the United States.

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## CJE3232: Drugs and Crime

This course will explore the interactions between society and its use of both medical and psychoactive chemicals, from early times to the present day. Primary focus will be on contemporary drug usage and the attempts to control substance abuse, and the consequences for both individuals and society of criminalizing drug use.

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## CJE3281: Women and the Legal System

This course covers three areas of study involving women and the legal system: (1)women in the workplace, including discrimination, comparable worth, sexual harassment and education; (2)women and the family, including marriage, divorce, child custody and domestic violence; and (3)women's bodies, including reproductive rights, rape and prostitution.

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## CJE4017: Law Enforcement Systems and Processes

Prerequisite: CCJ 3023. This course is a historical and functional analysis of law enforcement in a democratic society. The course includes the analysis of comparative police systems, police roles, careers, values and behavior, and police organization, management and control.

## CJE4144: Security and Society

The origins and modern meanings of security are explored, especially as they interrelate with law enforcement and public safety, and the importance of security to the public as a whole is studied. The means of implementation in both public and private sectors are examined.

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## CJE4201: Deviance and Social Control

This course explores multiple perspectives on the dialectic processes involves in the application of deviant labels. The course specifically examines formal and informal mechanisms of social control and how these structure social relationships and individual identity.

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## CJE4211: Hate Crimes

This course presents an analysis of the origin and persistence of domestic hate crimes, and the criminal justice response to such crimes. The course will provide an overview of the organization and criminal activities of hate groups in the United States, and the historical roots of hate culture.

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## CJE4270: Child Abuse

This course explores physical, emotional and verbal child abuse and neglect. Students will analyze the criminal dynamics, historical perspectives; effects and consequences; treatment responses for victims and perpetrators; and issues related to race, sex and class in child abuse and neglect.

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## CJJ3010: Juvenile Delinquency and Juvenile Justice

A study of the definitions and etiology of delinquent behavior; the adjudication process for juveniles, both in theory and practice; and treatment procedures.

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## CJL4111: Criminal Law and Procedures II

Prerequisite: CJL 4310 This course is a study of selected legal topics of interest to the advanced student of criminal justice. The course includes coverage of defense to crimes, constitutional protection of the accused, post-conviction relief, and topics of current interest (such as capital punishments, plea bargaining and non-discriminatory jury selection).

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## CJL4310: Criminal Law and Procedures I

Prerequisites: CCJ 3023 This course covers the definition and concept of crime in AngloSaxon legal systems. It includes the common-law origins and subsequent statutory modification and amplification of representative substantive criminal offenses, law of search and seizure, and the exclusionary rule.

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## CJL4315: Criminal Trials Seminar

Prerequisite: CJL 4310 Criminal Law and Procedures I This course offers students who have completed Criminal Law and Procedures I practical observation and study of the criminal trial process, through lecture, readings, and direct observation of criminal trials. In the courtroom setting, students will observe all aspects of the criminal justice process, from arrest through conviction and sentencing. Lecture material will supplement understanding of related aspects of the justice process, such as the law making process, bail and pretrial incarceration, prosecutorial discretion and plea bargaining, and sanctions.

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## CJL4510: Court Systems and Processes

Prerequisite: CCJ 3023. This course examines the American judicial systems, its role and function in the criminal justice process, the actors and processes which drive it, and the outcomes it produces. Topics include the origin of American court structure and processes, criminal trial processes, rules of evidence, and the appellate court system.

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## Undergraduate Courses

## Political Science and Public Administration

## Course Descriptions:

## CPO2002: Introduction to Comparative Politics

This course examines the political structures, processes, and institutions of selected advanced industrial societies.

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## CPO3123: (FC) Politics and Society in Britain and Ireland

This course surveys political behavior and government institutions in the context of social change in modern Britain and Ireland.

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CPO3151: (FC) Politics and Society in France
This course will examine the political system of France, including it's government institutions, political parties, social movements, labor unions, and elections. France's role in the European Union and other international organizations will also be analyzed, as well as the effects of globalization of French politics and culture.

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## CPO3213: Politics and Society in Subsaharan Africa

This course is concerned with the government, politics, and society of sub-Saharan Africa. These political systems will be traced back to their roots in traditional Africa, to colonial Africa, and to particular patterns of administration and politics based on the systems imposed by former European colonial powers. The course will also show how many customary laws and practices found expression in the political and legal structures of the new polities. Since postindependence years, politics in sub-Sahara Africa is still characterized by ethnic conflicts, military interventions, and social disequilibria, as well as by democratic governments.

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## CPO3351: (FC) Politics and Society in Brazil

This course will examine the political systems and traditions of Brazil, including government institutions, the federal system and state politics, political parties, social movements and elections. Contemporary political issues of special salience to Brazilians will also be analyzed, including poverty and development, human rights, the environment, as well as Brazil's role in international politics.

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Description: This course provides an introduction to contemporary political issues and trends in the South Asian states of Pakistan and Afghanistan. The course examines the complex interrelationship between various ideologies, institutions, personalities, and social movements in the two countries. The course has been designed to help students gain a thorough understanding of domestic, regional, and structural causes and consequences of the two countriesâ ${ }^{\text {TM }}$ revolutions and conflicts before and after the partition of the subcontinent in 1947. Other important issues such as nuclear and conventional security; state malfunction, civil war and terrorism; poverty and development; regional integration; and human security and gender discrimination are also examined in this course.

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## CPO3643: Politics and Society In Russia

This course explores politics and society in contemporary Russia. The course covers current governance systems, current policy issues, and Russian political culture.

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## CPO4014: Comparative Politics: Frameworks for Analysis

Prerequisite: CPO 2002. In this course students will study and apply the most important theories of comparative politics against the background of current political situations. Students will examine theories of comparative culture and socialization; corporatism; communities, nationalism and nation-building; theories of political and economic development; comparative social and political organization; and democracy and transitions-to-democracy.

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## CPO4034: Third World Politics

Prerequisite: CPO 2002 or consent of instructor. The subject of this course is political development in selected third world nations (including China), emphasizing the economic, social, and psychological conditions underlying political change.

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## CPO4930: Topics in Comparative Politics

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Prerequisite: CPO 2002 or consent of instructor. The content of this course covers various specialized studies in the realm of comparative politics. May be repeated up to a total of 9 credits.

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## INR2002: Introduction to International Relations

Basic introduction to international politics and relations concentrating on describing the various ways nations interact with one another, how the world community looks at national power and how nations and the world community define and protect the national interest. In addition, the course examines and analyzes the role of international organizations in contemporary organizations in contemporary world politics.

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INR3016: Global Issues in Contemporary Politics
This course promotes the understanding and analysis of significant trends in the emerging new world system and relates those trends and events to domestic politics and society in other nation states. The course also compares and analyzes comparative trends in political

## INR3084: Terrorism Today

This course covers the politics, ideologies, capabilities and countermeasures of global terrorism today. The course traces the history and development of terrorism around the world, examines the factors which make terrorism an effective and economical political tool for the achievement of specific goals, explores terrorist organizations, and assesses the various weapons and delivery capabilities of today's terrorists. Finally it examines and evaluates strategies and tactics for the suppression of terrorist activities and the reduction of effectiveness of terrorist actions.

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## INR3153: American Foreign Policy in the Middle East

Description: This course will examine the formulation and implementation of American policies towards the Middle East, with special emphasis on the period following World War II. It includes the study of the various American actors, organizations and government agencies involved in influencing the formulation of American policies towards the region. Students will analyze various instances in which the US has intervened in the region: diplomatically, economically, and militarily. The successes and/or failures of these interventions will be assessed against the backdrop of stated American goals.

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## INR3248: (FC)U.S. Caribbean/Central America Relations

This course dissects the key issues in the relationship between the United States and the countries of the Caribbean Basin, including Central America, the island nations of the Caribbean, Mexico, Venezuela and Colombia. Issues such as immigration, security, political and economic development, and the `War on Drugs,? are viewed from North American and Caribbean Basin/Central American perspectives.

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## INR3443: International Law and Organization

Prerequisite: INR 2002. This course examines the role of international law and international organizations in the global political system. It explores the effects of international law and the activities of international organizations, including the United Nations and NGOs, against a backdrop of current issues of international importance.

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## INR3950: International Educational Experience

Prerequisites: For International Studies majors only. Consent of instructor required.
Registration in this zero credit, pass/fail course records an International Studies major's completion of the required study abroad or other international educational experience. All students majoring in International Studies, including all concentrations within the major, must enroll in this zero credit course during the semester in which they complete their international educational experience. Enrollment in this course is in addition to any other study-abroad related course for which they may also register.

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Prerequisite: Permission of the instructor. The purpose of Political Studies Abroad is to acquaint students first-hand with the political culture and political institutions of other countries. Students will meet with representatives of political parties, movements and governments in order to learn about issues and policies in the host country. (This course may be repeated for credit.)

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INR4334: American Defense in the Age of Mass Destruction
Prerequisite: POS 2041 or consent of instructor. This course examines a number of contemporary defense issues in light of a half-century of American and international experience in dealing with nuclear weapons. The course covers the development of U.S. strategic doctrines, both during and after the Cold War, and explores the relationship of these doctrines to the U.S. defense budget, unilateral and multilateral intervention, including the "War on Terror", ballistic missile defense, and the continuing proliferation of nuclear and other weapons of mass destruction.

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INR4603: International Relations: Frameworks for Analysis
Prerequisite: INR 2002. In this course students will study and apply the most important theories of international relations against the backdrop of current international politics, including realism/neorealism, liberalism/neoliberalism, and constructivism. Key concepts such as power, states, international organizations, war, and economics will be placed within the context of these frameworks for analysis.

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## INR4703: International Political Economy

IPE synthesizes methods and insights derived from the social sciences to understand the complex issues faced in the international political economy today. The course considers topics such as world trade, the international monetary system, economic development, world hunger, multinational corporations, international energy policies, global security, transitional economies, and the European Union from three perspectives-economic, nationalism, economic liberalism and structuralism.

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INR4905: Directed Independent Study

Prerequisites: Permission of instructor Independent study of student-selected topics under the guidance of the International Studies Program Director or other approved program faculty. This course may be repeated for a total of 12 credits under different topics.

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INR4930: Capstone Seminar: International Studies
Prerequisite: Senior Standing; satisfactory completion of the program's core courses: ANT 3212, ECO 3701, GEO 3553, CPO 4014, or INR 4603, and ANT 4083 or ANT 4497 or HIS 3051 or POS 3713. Through lecture and the discussion of core readings and individual research projects this course will examine contemporary international issues such as globalization, terrorism, the impact of environmental degradation, access to health care, food distribution and, the development of civil societies.

Prerequisite: POS 2041 or consent of instructor. Exploration of the creation, growth and operation of public bureaucracies and their impact on the politics of modern industrial states.

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## PAD4027: Issues in Public Management

Prerequisite: POS 2041 or consent of instructor. Current developments and considerations in development of effective and responsible management of public agencies. Examination of decision making models and ethical, political, financial, personnel and policy questions as they affect managers and administrators in public sector organizations.

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## PAD4144: Nonprofit Management

Description: This course will cover a broad scope of topics pertaining to the management and leadership of nonprofit organizations in the United States. This is a survey course and as such, each week students will be introduced to a new topic. Topics include, but are not limited to, resource management, leadership, and current issues confronting nonprofits. The goal is to better prepare students for the broad array of issues facing nonprofit administrators.

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## PAD4832: Issues in Comparative Public Administration

This course will compare the public administration systems and public policy-making process in the United States and various other countries, as well as in IGOs and NGOs, as well as in the European Union. The course will examine different means by which policy decisions are taken and implemented in different national and international contexts.

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## POS2041: Introduction to American Government

This course provides a broad look at government in the U.S., introducing major institutions and participants and considering various explanations of why our political system behaves as it does. The course reviews governmental response to major issues to illustrate both the power and limitations of our system of government.

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POS2932: Special Topics in Politics
This course explores political and policy dilemmas associated with cultural and gender issues in both the U.S. and abroad. May be repeated up to 12 credits.

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This course examines urban governments from the perspective of policy outcomes as a result of the form of political organization. Various distributions of power have been theorized at the municipal level-elitism, pluralism, and regime theory to name a few. Each of these forms of political organization may result in particular outcomes in terms of policy formulation, resource allocation, and service delivery, each with significant consequences for public officials, citizens, and other stakeholders.

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POS3235: Government and Mass Media
This course examines the mass media as a political actor. It explores the political roles and functions of the mass media; examines relations between government and the mass media; and assesses the relationships between media and political systems in different nations.

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## POS3413: The American Presidency

Prerequisite: POS 2041 or consent of instructor. This course examines the constitutional role of the executive branch and the President's profound influence on domestic and foreign policy. Presidential powers and behavior are analyzed in the context of legal, electoral, personal and other forces that shape and limit presidential actions. Executive functions at the subnational level may also be considered.

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## POS3424: Congress and the Legislative Process

This course is designed to examine thoroughly the constitutional role of the legislative branch of the United States Government. It provides information on the procedures and personalities of the Senate and House and displays the central place of Congress in shaping domestic and foreign policy within a federal democratic system.

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## POS3444: Parties, Campaigns and Elections

This course examines the development of the American party system and the relationship of mass parties, elections and governance. The effects of party and campaign organization and leadership on elections are considered, as well as the role of parties in models of voting choice and the theory of critical elections.

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## POS3606: The U.S. Supreme Court

Prerequisite: POS 2041 or consent of instructor. This course examines the history, organization, and current procedures of the U.S. Supreme Court and explores its role in formulating public policy through judicial decision making.

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POS3615: Soul of the Court
This course is designed to introduce the student to the varying judicial philosophies currently in conflict in contemporary American society, with an emphasis on the battle for control of the philosophical composition of the current United States Supreme Court. A major portion of the
course will detail the nomination and confirmation battle over Robert Bork to the Supreme Court. The course will then update the continuing saga of the political process at work in attempting to shape the future of the Supreme Court. The course will then delve into the battle over the confirmation of Clarence Thomas to the Supreme Court. The resulting philosophical struggles within the Court will be detailed as those struggles determine the current direction of the Court with respect to contemporary legal issues.

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## POS3676: Great American Trials

This course provides the student with a historical review of some of the most significant and celebrated cases in American legal history and profiles famous civil litigants and criminal defendants. Trials have served as the ultimate means to resolve major disputes within our society since the earliest days of our country's history. Some of the major events in our nation's development have been centered on major civil litigation, and the controversies generated by crimes of significance; the "trials of the century" featured in this course.

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## POS3679: Mock Trial

Prerequisite: Consent of instructor. This course introduces the student to the various aspects of the American Jury trial process. Class participation in various roles in the trial process is required.

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## POS3683: Law and Cinema

The course in law and the cinema is intended to deepen and enrich the studentsâ ${ }^{\text {TM }}$ understanding of both law and the cinema and the many ways in which they influence each other. This course focuses on legal history, practice and ethical issues, and how the cinematic portrayal of the legal system influences the way law is actually practiced. How law and the legal system is portrayed in the motion picture industry, in particular, creates images and perceptions that may vary, to some degree, from the reality of the life of the law.

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## POS3691: The American Legal System

Broad examination of the structure and operation of the U.S. legal system. Includes brief consideration of the other legal systems; the roles of the legal profession, U.S. Supreme Court, legislatures, and executive agencies; and analysis of the common law case approach to dispute resolution.

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## POS3733: Research Design for Political Scientists

Description: This is the first course in our two-course research sequence and is required for all Political Science majors. This course will introduce students to the basic principles of research design and scientific research, from the development of an idea or research question, creation of hypotheses, writing of a literature review and writing a research proposal. We will explore a wide range of methods, including experiments, natural experiments, quasi-experiments, measurement using empirical data, and qualitative case studies. The readings combine textbook explanations of the methods with examples of how they are put into practice. Through a set of assignments, students will be asked to begin the process of conducting their own independent research concluding in the submission of a research proposal that will be the foundation for the second course in this research sequence.

# POS3734: Research Analysis for Political Scientists 

Prerequisite: POS 3733
Description: This course introduces students to research methods in political science using empirical data. The course will emphasize basic statistical techniques used in empirical data analysis to include measures of central tendency and dispersion, cross-tabulations, mean comparison, analysis of variance, correlation, and linear regression. By the end of the course students will be required to use the knowledge obtained in from both research methods courses in this sequence to develop an original research paper, including original data analyses, which may be presented at an undergraduate conference.

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## POS3931: Special Topics in Politics

Prerequisite: POS 2041 or consent of instructor. This course explores selected major political issues of the day. May be repeated up to 12 hours for credit under different topics.

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## POS4033: Controversial Political Issues

Prerequisite: POS 2041 or CPO 2002 or INR 2002 or by consent of instructor. This course provides an analysis wherein political decisions are the focus for conflicting ideological, moral or economic forces. This course is designed to enhance the students understanding of contemporary issues facing subnational, national and international policy makers.

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## POS4093: Politics of the War on Drugs

The course examines the banning of opiates in the United States beginning in 1914 and continuing to the present. It will focus on the role of Federal Drug Enforcement Agencies such as the Drug Enforcement Agency, Federal Mandatory Sentencing Guidelines, campaigns to end international drug trafficking and illicit trafficking of prescription narcotics.

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## POS4167: Urban Policy and Planning

General analyses of principles and issues of administering city governments. Problems of local governmental managing, budgeting, planning and delivering urban services will be emphasized. Primary focus is the U.S., with reference to selected foreign countries.

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Political processes and problems characteristic of the southern States of the USA.
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POS4463: Interest Groups and American Democracy
Prerequisite: POS 2041 or consent of instructor. The purpose of the course is to examine the role of economic interest groups in the American democracy. The role of grassroots movements in these issues will also be considered.

Prerequisites: POS 3606 or Consent of Instructor This course examines the development of constitutional doctrine as it applies to judicial review, the powers of president and congress, federalism, and courses of regulatory authority.

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## POS4624: Constitutional Law II: Civil Rights and Civil Liberties

Prerequisite: POS 3606 This course examines the development of constitutional doctrine as it applies to individual liberties and rights including those found in the Bill of rights and those applied to the states through the Equal Protection and Due Process clauses found in the fourteenth amendment.

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## POS4750: Survey Research

Prerequisite: POS 3733
Description: This course is designed to introduce students to polling and public opinion research. Public opinion is vital to the political world and our democracy. This course aims to produce graduates that are not only intelligent consumers of survey data but competent in the analysis of data. Data analysis skills are incredibly valuable in the workforce and providing our graduates with this tool will add to their value as job seekers after graduation.

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## POS4905: Directed Individual Study

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Prerequisite: Completion of all core and field requirements, 3.0 grade point average in all political science courses, and permission of academic and career advisor. Supervised readings and/or research, coupled with presentation of a high-quality paper on a topic of interest to the student. May be repeated up to 12 credits under different topics.

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## POS4930: Senior Seminar in Political Science

Prerequisite: POS 3733 and POS 3734
Description: In this course students will study and analyze in depth important contemporary issues in political science. The specific emphasis of the seminar may vary from semester to semester. But knowledge acquired in previous courses in politics, international relations, comparative politics, public policy and public administration will be drawn upon in order to enhance and deepen the student's appreciation of the theories, methods and applications of Political Science in today's world.

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## POS4932: Special Topics in Political Science and Public Administration

Prerequisite: POS 2041 or consent of instructor. Exploration of topics of enduring or emerging significance in political science or public administration. May be repeated up to 9 hours for credit under different topics.

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Prerequisite: Consent of instructor. This course provides a supervised internship or research field experience within the discipline of political science.

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POT3003: Political Thought and Action
This course considers concepts of political thought and action derived from such classical thinkers as Plato, St. Augustine, Hobbes, Locke, Rousseau and Hegel, as well as from readings in the modern traditions of liberalism, conservatism and socialism.

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## POT3075: American Politics and Popular Culture

This course systematically and critically explores how, and to what effect, American popular culture shapes our mediated political reality. It focuses on specific artifacts of popular culture: the commercial feature film, television, and popular literature.

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## POT3515: Good and Evil: Political Perspectives

This course will examine extreme political action, behaviors, and policy effects which are labeled as "evil" or "good." Students will examine what these terms mean in political contexts, how these terms are applied, and what activates individuals, movements, and governments to engage in such behaviors. Examples such as terrorism, the Holocaust, institutionalized social and political inequalities, as well as positive programs to eradicate disease and hunger, or international intervention on behalf of human rights will be used as case studies to explore these concepts.

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## POT4314: Democratic Theory

Democracy is a means of making decisions both within government and about governance. This course takes a critical look at democracy both as a process and a form of government. Democracy is compared and contrasted with other forms of governance and various forms of democracy, e.g., direct and representative are considered.

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## PUP2312: (CD) Race/Gender/Political

This course introduces students to the struggle of minorities and women to participate in the formation of public policy in the United States.

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## PUP3053: Political Economy

Prerequisite: CPO 2002. Politics and economics are inextricably linked in most American public policy decisions. This course will examine how the economy affects political decisions, as well as how political choices affect the American economy. The course addresses the development of political economy as a discipline in addition to contemporary domestic policy issues.

Prerequisite: POS 2041 The course will provide an understanding of the structure of the political process in medical policy making. It will focus upon the US but will provide comparisons with other countries. The political roles of the legislature, executive and judicial branches of government in medical policy will be examined as well as the political roles that health professional assume in the community. Major actors in medical policy are identified within the context of the forces and institutions that they react to in shaping medical policy. The course will examine why the practice of medicine has been "criminalized" in the pursuit of fraud, abuse and drug diversion.

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## PUP4003: The Policy-Making Process

Study of the legislative, executive, judicial and interest-group relationships in the making and administration of public policy in the USA.

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## PUP4506: Evolution, Society and Politics

Prerequisites: POS 2041, or consent of instructor. "Biopolitics" explores the relationship of humankind's evolutionary origins to present social and political behavior, particularly the emergence of state power and institutions. The course surveys key questions, issues, and controversies encountered in "biological" explanations of political phenomena. Additionally, the course examines some contemporary policy issues associated with developments in biotechnology.

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## PUP4612: Politics of Social Programs

Examines the political response to maldistribution of wealth and income with special emphasis on analysis of public policy alternatives for achieving social welfare.

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## Undergraduate Courses

## English

## Course Descriptions:


#### Abstract

AML3031: (GW) Periods of Early American Literature Prerequisite: One course in literature. This course will consist of readings in American literature from the pre-colonial period to the Civil War, with particular attention devoted to two distinct periods. We will consider the ways in which such periods as "the colonial" or the "American Renaissance" are constructed. Gordon Rule English credit.


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AML3041: (GW) Periods of Later American Literature
Prerequisite: One course in literature. This course will consist of readings in American literature from the Civil War to the present, with particular attention devoted to two or more distinct periods. We will consider the ways in which such periods as the "modern" or "postmodern" are constructed. Gordon Rule English credit.

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AML3102: (GW) American Fiction
The nature and development of American fiction in works by such authors as Charles Brockden Brown, Edgar Allan Poe, Herman Melville, Mark Twain, Kate Chopin, Stephen Crane, Charles Chesnutt, F. Scott Fitzgerald, Ernest Hemingway, William Faulkner, Richard Wright, John Steinbeck, John Gardner, Ronald Sukenick and Joyce Carol Oates. Gordon Rule English credit.

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## AML3154: (GW) American Poetry

American poetry from the colonial period to the present, with variable emphasis. See department office for reading list. Gordon Rule English credit.

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AML3621: (GW) Black American Literature
Poetry, drama, prose, and fiction as significant dimensions of American culture. Studies may include slave narratives, Douglas, Dunbar, Cullen, Brooks, Hughes, McKay, Wright, Ellison, Baldwin, Jones and Reed. Gordon Rule English credit.

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Prerequisite: At least one literature course at the 3000 level or permission of instructor.
Readings in 19th century American literary texts. Focus will differ with each offering. See department office for reading list.

AML4242: Studies in 20th Century American Literature
Prerequisite: At least one literature course at the 3000 level or permission of instructor. Readings in 20th century American literary texts. Focus will differ with each offering. See department office for reading list.

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## CLT4110: Classical Background of Western Literature

Readings in translation of writers such as Homer, Plato, Sophocles, Euripides, Aristotle, Virgil, Ovid, Catullus and Apuleius, with some attention to their importance to later Western culture.

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## CRW2000: (GW) Introduction to Creative Writing

Prerequisites: ENC 1101 and LIT 2000 or ENG 2012 In this course, students will read works from a variety of literary genres, produce samples of work in each genre, develop productive critiques of one anotherâ€ ${ }^{\mathrm{TM}}$ s work within a workshop setting, and revise at least one of their samples. This course is for students who want to develop basic skills in more than one genre of creative writing. Gordon Rule English credit.

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## CRW2100: (GW) Introduction to Fiction Writing

Prerequisite: ENC 1101 and LIT 2000 or ENG 2012 In this course, students will study the basic techniques used by both canonical and contemporary fiction writers to build convincing and compelling worlds, characters, and plots. Students will then work to apply those techniques to their own fiction. They will develop the skills and techniques necessary for both a productive critique of their own and one another's fiction, and for the in-depth work of successful revision. Gordon Rule English credit.

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## CRW2201: (GW) Introduction to Creative Non-Fiction

Prerequisite: ENC 1101 and LIT 2000 or ENG 2012 In this course we will examine the narrative possibilities of creative nonfiction. We will explore structure, technique and authorial presence in representative works of established sub-genres, including literary journalism, travel writing, memoir, and the personal essay, as well as more experimental forms like the lyric essay and collage. Students will develop skills and techniques necessary for the productive critique of their own and one another's writing and for the in-depth work of successful revision. Gordon Rule English credit.

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## CRW2300: (GW) Introduction to Poetry Writing

Prerequisites: ENC 1101 and LIT 2000 or ENG 2012 This workshop allows students to explore together the fundamentals of the craft of poetry. Students will learn the difference between poetry and prose, as well as the ability to identify the attributes that make poetry a unique and expressive art form. Students will learn basic terminology and close reading skills in order to write analyses that demonstrate precision and sensitivity to the nuances of poetic language. Students will read and memorize poems by master poets, whose work will be the focus of our analysis. Learning to explicate great poetry will provide students with skills they can apply to their own poetry, which will be the ultimate focus of this course. Gordon Rule English credit.

Prerequisites: ENC 1101 and LIT 2000 or ENG 2012 This course introduces students to the art and craft of playwriting. Students will read plays and analyze their basic elementsâ €"including dramatic action, characterization, dialogue, and the shape and pacing of scenes. In order to understand the nature of drama from the perspectives of actor, director, and audience as well as playwright, students will write scenes and perform them, a process that will involve staging and directing those scenes. Gordon Rule English credit.

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## CRW2600: (GW) Introduction to Screenwriting

Prerequisite: ENC 1101 and LIT 2000 or ENG 2012 This course examines the basic formal elements of screenplays, including characterization, dialogue, scene structure, plot construction, genre conventions, and formatting requirements. Students will critically analyze screenplays by the great auteurs of the twentieth century. The students' major project will be to write short motion picture or television screenplays of their own. Gordon Rule English credit.

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## CRW2930: (GW) Special Topics in Creative Writing

Prerequisites:ENC 1101, LIT 2000 Students will analyze literary genres, forms, conventions, structures, techniques, and creative writing strategies and apply these analyses to their own creative writing efforts and to critiquing the work of their peers. Gordon Rule English credit.

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## CRW3015: Writer's Workshop <br> 3

May be repeated for a total of 6 credits.
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## CRW3110: (GW) Fiction Workshop

Prerequisite: CRW 2100 This workshop offers students multiple opportunities to employ the methods and techniques learned in the 2000-level CRW courses. Students will share and critique rough drafts of their work. These critiques will help students develop a final portfolio. Students will produce at least two substantial submissions. Readings will be drawn from contemporary fiction. May be repeated for up to 9 credit hours. Gordon Rule English credit.

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## CRW3211: (GW) Creative Non-Fiction Workshop

Prerequisite: CRW 2201 This workshop offers students the opportunity to employ and build on methods and techniques introduced in the 2000-level CRW courses. Students will closely examine a variety of exemplary, largely contemporary works. This will enable them to match the form and techniques of a variety of genres to subjects of their own choosing. Detailed critique, discussion and revision will result in the completion of a portfolio of drafts, revisions and one finished work of high quality. May be repeated for up to 9 credit hours. Gordon Rule English credit.

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Prerequisite: CRW 2300 During the course of the semester, students will respond to different kinds of assignment prompts to develop their mastery of verbal craftsmanship. They will also read work by both active contemporary poets and well-known, canonical poets. Students will critique and discuss one another's work in a workshop setting in order to gain facility using language with precision. May be repeated for up to 9 credit hours. Gordon Rule English credit.

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## CRW3424: Playwrights' Project

## Prerequisite: CRW 2400

Description: This course is a workshop in playwriting and play making. The first three quarters of the course is an intensive writing workshop designed to introduce students to the art and craft of playwriting. Students will learn to write and master the 10 -minute play format. The final quarter of the course is a play making workshop. Students will select stage-worthy scripts from the plays written in the first three quarters of the course and produce them. The play making workshop includes opportunities for students to hold university-wide auditions, cast, direct, act in, publicize, promote and present their plays in a final performance project for the university community.
Repeatability: This course may be repeated for up to twelve (12) credits.
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CRW3610: (GW) Screenwriting Workshop
Prerequisite: CRW 2600 This course explores the nature of screenplay writing in a workshop format. Students will analyze the basic and more advanced elements of screenplays and write an original, feature-length television or motion picture screenplay.May be repeated for up to 9 credit hours. Gordon Rule English credit.

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## CRW3930: Special Topics in Creative Writing

Prerequisite: Junior standing or permission of instructor. Topics of importance in theory and/or practice in composition. Course may be repeated up to 12 credits with different topics.

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## CRW4905: Tutorial in Creative Writing

Prerequisite: Senior standing and permission of instructor. Tutorial in creative writing; topic to be agreed upon with instructor. May be repeated for a total of 12 credits.

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## CRW4924: Advanced Creative Writing Workshop

Prerequisite: At least 6 hours of 3000-level CRW courses and instructor permission Students will continue to develop their skills in reading, writing, and critiquing, while also becoming familiar with the submission and publication process. Projects that students will engage in may include the following: development of submission portfolios; research on journals, magazines, and online publication outlets; completion of submissions by sending out work for publication; and public readings of student work. May be repeated up to 9 credit hours.

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Prerequisite: ENC 1101. In this course students write various kinds of expository prose, including some informed by research. Gordon Rule English credit.

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## ENC1130: (GW) Special Topics in Writing

ENC1130 focuses on the development of effective composing, revising, and editing strategies. The goals of ENC1130 are (1) to develop writing skills needed to succeed in other academic courses by focusing more intensely on style and grammar, and (2) to introduce students to reflective judgment and rhetorical inquiry as the foundation for all communication. Gordon Rule English credit.

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ENC1143: (GW) Introduction to Rhetoric and Narrative

Description: This course introduces students to basic rhetorical features of a range of texts in different genres, with a focus on the elements of narrative. Students will learn how to read critically in preparation for writing critically on the course texts. Gordon Rule English credit.

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#### Abstract

ENC2127: Elements of Style and Grammar This course offers students practice in analyzing style, revising sentences, developing effective paragraphs and arguments, and writing with force and clarity. This course focuses on stylistic analysis and provides students additional instruction and practice in style and grammar. Gordon Rule English credit.


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## ENC2210: (GW) Technical Writing

Prerequisite: ENC 1101 This course will introduce students to scientific, technical, and professional writing with a focus on practical information about communicating in different workplace environments and professional/technical discourse communities. Students will analyze rhetorical situations and issues (of audience, organization, visual design, style, and the material production of documents) common to different scientific, technical, and professional writing genres, including emails, letters, resumes, memos, reports (progress, lab, etc.), proposals, technical descriptions, technical definitions, and technical manuals. Gordon Rule English credit.

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## ENC2441: (GW) Writing Topics: Fine Arts

Prerequisite: ENC 1101 This course will introduce students to rhetorical strategies needed for successful research-based writing in diverse academic and non-academic situations within fine arts. This course will also require students to focus on the writing conventions and expectations in the fine arts, as well as practice in writing in a variety of genres, including the argumentative essay. Students will practice addressing a variety of audiences and using research strategies relevant to fine arts and related professional communities. Gordon Rule English credit.

Prerequisite: ENC 1101 This course will introduce students to rhetorical strategies needed for successful research-based writing in diverse academic and non-academic situations within the humanities. This course will also require students to focus on the writing conventions and expectations in the humanities, as well as practice in writing in a variety of genres, including the argumentative essay. Students will practice addressing a variety of audiences and using research strategies relevant to the humanities and related disciplines. Gordon Rule English credit.

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## ENC2443: (GW) Writing Topics:Literature

Prerequisite: ENC 1101 This course will introduce students to rhetorical strategies needed for successful research-based writing in diverse academic and non-academic situations within the study of literature. This course will also require students to focus on the writing conventions and expectations in literature, as well as practice in writing in a variety of genres, including the argumentative essay. Students will practice addressing a variety of audiences and using research strategies relevant to literature and related disciplines. Gordon Rule English credit.

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## ENC2450: (GW) Writing Topics: Natural Sciences

Prerequisite: ENC 1101 This course will introduce students to rhetorical strategies needed for successful research-based writing in diverse academic and non-academic situations within the natural sciences. This course will also require students to focus on the writing conventions and expectations in the natural sciences, as well as practice in writing in a variety of genres, including the argumentative essay. Students will practice addressing a variety of audiences and using research strategies relevant to the natural sciences and related professional communities. Gordon Rule English credit.

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## ENC2451: (GW) Writing Topics: Health

Prerequisite: ENC 1101 This course will introduce students to rhetorical strategies needed for successful research-based writing in diverse academic and non-academic situations within health. This course will also require students to focus on the writing conventions and expectations in health, as well as practice in writing in a variety of genres, including the argumentative essay. Students will practice addressing a variety of audiences and using research strategies relevant to health and related professional communities. Gordon Rule English credit.

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ENC2460: (GW) Writing Topics: Business
Prerequisite: ENC 1101 This course will introduce students to rhetorical strategies needed for successful research-based writing in diverse academic and non-academic situations within business. This course will also require students to focus on the writing conventions and expectations in business, as well as practice in writing in a variety of genres, including the argumentative essay. Students will practice addressing a variety of audiences and using research strategies relevant to business and related professional communities. Gordon Rule English credit.

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Prerequisite: ENC 1101 This course will introduce students to rhetorical strategies needed for successful research-based writing in diverse academic and non-academic situations within the social sciences. This course will also require students to focus on the writing conventions and expectations in the social sciences, as well as practice in writing in a variety of genres, including the argumentative essay. Students will practice addressing a variety of audiences and using research strategies relevant to the social sciences and related professional communities. Gordon Rule English credit.

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## ENC2462: (GW) Writing Topics:Education

Prerequisite: ENC 1101 This course will introduce students to rhetorical strategies needed for successful research-based writing in diverse academic and non-academic situations within education. This course will also require students to focus on the writing conventions and expectations in education, as well as practice in writing in a variety of genres, including the argumentative essay. Students will practice addressing a variety of audiences and using research strategies relevant to education and related professional communities. Gordon Rule English credit.

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## ENC2463: G(W) Writing Topics: Engineering

Prerequisite: ENC 1101 This course will introduce students to rhetorical strategies needed for successful research-based writing in diverse academic and non-academic situations within engineering. This course will also require students to focus on the writing conventions and expectations in the engineering, as well as practice in writing in a variety of genres, including the argumentative essay. Students will practice addressing a variety of audiences and using research strategies relevant to engineering and related professional communities. Gordon Rule English credit.

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## ENC2930: (GW) Special Topics in Composition

Prerequisite: ENC 1101 This course will introduce students to rhetorical strategies needed for successful research-based writing in diverse academic and non-academic situations. This course will also require students to apply the principles and practices introduced in ENC1101 with a focus on the writing conventions and expectations in the academic and professional communities associated with a disciplinary area, as well as practice in writing in a variety of genres, including the argumentative essay. Students will practice addressing a variety of audiences and using research strategies relevant to discipline and professional communities. Topics will vary and may include topics in: Business; Computing, Engineering \& Construction; Education and Human Services; Health; Fine Arts; History; Natural Sciences and Math; Social Sciences. Gordon Rule English credit.

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ENC3250: (GW) Professional Communications
The primary emphasis of technical writing is on the basics of professional communicationresearch, organization, grammar/mechanics/style. We will also pay attention to the forms of professional communication-letters, memos, and formal and informal reports. Gordon Rule English credit.

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Prerequisite: ENC 1101 and ENC 1102. Writing of various kinds, such as speculation, reports, documented articles or criticism, with emphasis on persuasion as the object. Prospective teachers give attention to the psychology of helping others to write well. Gordon Rule English credit.

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## ENC3930: Topics in Theory and/or Practice in Composition

Prerequisite: Junior standing or permission of instructor. Topics of importance in theory and/or practice in composition.

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ENC4930: Topics in Theory and/or Practice in Composition
Prerequisite: Senior standing or permission of instructor. Topics of importance in theory and/or practice in composition. May be repeated for a total of 12 credits under different topics.

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## ENG3613: (CD) Topics in Disability Studies

The course will focus on the nature, meaning, and consequences of what it is to be defined as disabled and explore the historical and cultural dynamics of disability. It will primarily address the stereotypes associated with and the experiential aspects of disability as these are deployed in literature, film, television, the arts, and other cultural media. It will address disability rights, legal issues, and public policy as secondary issues. Course may be repeated for a total of 6 credits with different topics.

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## ENG3930: Topics in Criticism and Interpretation of Literature

Prerequisite: Junior standing or permission of instructor. Topics in criticism and interpretation of literature. May be repeated for a total of 12 credits under different topics.

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## ENG4013: Approaches to Literary Interpretation

Applied criticism of principal modern approaches, including psychological, formalist, and mythic. Students read theory and model criticism, practicing interpretation with various genres.

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ENG4105: Film and Literature
Film and literature courses bring visual and print text together in the course of study. Course content varies as does approach and purpose. Courses could include the study of one author's novels and screenplays; or the study of a literary genre put to film, such as drama; or the study of film adaptations of literary works; or any configuration of literature and film.

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## ENG4930: Topics in Criticism and Interpretation of Literature

Prerequisite: Senior standing and permission of instructor. Topics in criticism and interpretation of literature. May be repeated for a total of 12 credits under different topics.

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| ENG4933: Seminar | v. 1- |
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## ENL3112: (GW) British Novel I

The development of the novel in England to about 1875. Such authors as Bunyan, Defoe, Fielding, Richardson, Smollett, Sterne, Austen, Scott, Dickens, the Brontes, Thackeray, Eliot, Trollope and Lewis Carroll. Gordon Rule English credit.

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## ENL3132: (GW) British Novel II

The novel in Britain from about 1875 to the present. Such authors as Hardy, Kipling, Conrad, Forster, Joyce, Lawrence, Ford, Woolf, Waugh, Greene, Cary, Beckett, Spark and Fowles. Gordon Rule English credit.

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## ENL3203: Old English

This course introduces students to Old English, the ancient ancestor of Modern English with a focus on reading knowledge through grammar study, translation, and pronunciation and on the history, culture, and literature of Anglo-Saxon England.

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## ENL3333: Shakespeare

This course studies selected aspects of the dramatic works from the early comedies to the late romances. Consideration of non-dramatic poetry may also be included.

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## ENL3501: G(W) Periods of Early British Literature

Prerequisite: One course in literature. This course consists of readings in British literature from its beginnings to 1800, with particular attention to two or more distinct periods. This course will examine the kinds of aesthetic, linguistic, and cultural changes by which periods are constructed, and how useful are they to an understanding of literature. Gordon Rule English credit.

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ENL3503: G(W) Periods of Later British Literature
Prerequisite: One course in literature. This course consists of readings in British literature
from approximately 1800 to the present, with particular attention to two or more distinct periods. This course will examine the kinds of aesthetic, linguistic, and cultural changes by which periods are constructed, and how useful are they to an understanding of literature. Gordon Rule English credit.

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ENL4220: Studies in Renaissance Literature
Written works from 1500-1660 by such authors as Spenser, Sidney, Shakespeare, Jonson, Donne, Marvell and Milton.

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## ENL4230: Studies in Restoration and 18th Century English Literature

Works by such writers as Dryden, Wycherly, Addison, Steele, Defoe, Swift, Pope, Fielding, Johnson, Boswell, Goldsmith, Sheridan, Burke, Gray and Collins.

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## ENL4240: Studies in English Romantic Literature

Representative works by such writers as Blake, Southey, Wordsworth, Coleridge, Byron, Shelley, Keats, Lamb, Hazlitt, De Quincey and Scott.

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## ENL4251: Studies in Victorian Literature

Literature and culture of the pre-modern period. May be organized as a major-authors course one time, as a theme-based course the next. Such authors as Carlyle, Mill, Ruskin, Arnold, Tennyson, Browning, Rossetti, Swinburne and Wilde.

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## FIL2000: Film Appreciation

This course introduces students to film interpretation and analysis by teaching cinematic vocabulary and technique as they have emerged and developed through the history of international cinema.

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## FIL3006: Analyzing Films

This course introduces students to key terms and concepts for analyzing film critically. Students will learn how to inventory the elements of a film, analyze scenes, explain the relation between cinematic forms and meaning, and write analytic film essays. This course provides a foundation for more specialized courses in the film studies minor. It will also benefit anyone who wants to better understand how movies affect us and who wants to learn how to write critical film analyses.

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Prerequisite: FIL 2000, LIT 3213 This course will survey the entire span of American Film from the silent films of D.W. Griffith and Charlie Chaplin to Classical Hollywood to Film Noir to the New Hollywood of the 1970s and beyond. The course will examine the emergence of genre films, including melodrama, comedy, western, musical, science fiction, horror, war, and drama. Special attention will be paid to cultural and historical context of American Film.

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## FIL3828: International Film

Prerequisite: Sophomore, junior, or senior standing. This course involves studying films from foreign cultures, such as French, German, Japanese, Australian. Films studied are classic or significant films representing both the cultures and important statements about the human encounter. Longer in-class experience allows for viewing and discussing each film in class, plus background on both the films and the culture.

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## FIL3930: Topics in Film

This course offers varied topics, themes, or movements in film. It may cover themes, such as race in film; or survey a specific period. Such as colonial Latin American history in film; or focus on a specific genre, such as American Vietnam War films or musicals. By way of specific focus, Topic in Film contributes to students' broad understanding of film. Every offering will use film as its primary medium of study and refine students' viewing skills.

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## FIL4848: (CD) World Cinema and the Cross-Cultural Encounter

Prerequisite: FIL 2000 Based on a set of films that focus on the situation of the cross-cultural encounter, ncluding tourism, immigration, and transnational romance, paired with critical readings in world cinema studies, this course will provide students with the analytical tools to address three central questions: What does it mean to be "abroad"? What are the pleasures, privileges, and perils of being "lost in translation"? And how does the cinema both reflect and participate in globalization? Our exploration of these questions will also entail that students be self-critical about how their encounter with world cinema is a cross-cultural experience. The principle analytical tools will be drawn from the diverse interdisciplinary fields of cinema and media studies, cultural studies, postcolonial studies, and cultural anthropology.

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## FIL4882: (CD) Cinema and Culture

This course examines films as cultural texts. Topics may include: representations of gender and sexuality, race and ethnicity, ideology, cross-cultural exchange, and globalization. This course is open to students, in any discipline, who are interested in understanding the influence of the historical and cultural context on film.

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FIL4900: Directed Independent Study in Film

## FIL4931: Advanced Topics in Film

Prerequisites: FIL 2000, LIT 3213 This course covers advanced topics, themes, or movements in Film. It may cover themes, such as crime in mass media; or survey a specific period, such as American film of the 1970's in cultural context; or focus on a specific genre, such kitchen sink realism in British film; or trace cinematic movements, such as avant-garde film. By way of specific focus, Advanced Topics in Film contributes to students' broad understanding of film while also increasing their ability to study a topic in depth. Every offering will use film as its primary medium of study to refine students' viewing skills and to advance analytical skills.

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## FIL4932: Advanced Documentary Studies

Prerequisite: FIL 3300 Advanced documentary studies builds on the coursework in Documentary Studies. Students undertake advanced documentary research, refine their understanding of documentary techniques, extend their analysis of and work with the generic features of documentary film, explore the aesthetic implications of the choices a documentarian must make, and reflect on the ethical complexities of documentary film in relation to the artistic history that informs this genre.

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## LIN3010: Principles of Linguistics

Overview of the modern linguist's approach to language. Analysis of phonological, morphological and syntactic systems. Brief survey of psycholinguistics, historical linguistics, sociolinguistics, language acquisition and semantics.

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## LIN3930: Special Topics in Linguistics

Prerequisite: LIN 3010 or equivalent. Topics of importance in the study of language. May be repeated for up to 12 credits under different topics.

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## LIN4930: Special Topics in Linguistics

Prerequisite: LIN 3010 or equivalent. Topics of importance in the study of language. May be repeated for up to 12 credits under different topics.

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## LIS1001: Beginning Library and Information Systems Strategies

This course is designed to acquaint the novice researcher with both traditional and computerized means of storing, locating, retrieving and evaluating information. This course emphasizes critical thinking and research skills and is especially recommended to freshmen.

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LIT2000: Introduction to Literature
Prerequisite: ENC 1101 The course will introduce students to writing about literature with a focus on the close reading, critical analysis, and informed appreciation of different kinds of

## LIT2930: G(W) Special Topics in Literature

Variable topics in literature. May be repeated up to 6 credits with different topics.
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## LIT3184: FC - G(W) Introduction to Irish Literature and Culture

This course provides an overview of Irish literature and culture, from their Celtic origins to the present. Gordon Rule English credit.

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## LIT3193: (FC)(GW) Literature of the East

Interpretive study of drama and fiction of India, China and Japan, focusing on Oriental mythic, social and intellectual backgrounds. Includes such writers as Sudraka, Kalidasa, Tagore, Mae Tun, Lusin, Ibuse and others. Gordon Rule English credit.

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## LIT3213: The Art of Critical Reading

This course introduces students to the intensity of reading by giving them the tools and habits of literary interpretation. Students will learn the vocabulary of traditional literary techniques and basic concepts of literary theory and then they will put these tools to work through written literary analysis. This class provides a solid foundation for the understanding of narrative and the practice of critical thought.

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## LIT3304: (GW) Literature of Popular American Culture

Interpretation and exploration of American mass culture from late 1800s to present, including literature of all types, from novels, song lyrics and plays, to film and film scripts, rock operas and best-sellers. Gordon Rule English credit.

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## LIT3331: (GW) Children's Literature

This course examines literature for children from social, psychological, educational, and other points of view. Gordon Rule English credit.

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## LIT3333: (GW) Adolescent Literature

This course examines literature for adolescents from social, psychological, educational, and other points of view. Gordon Rule English credit.

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## LIT3408: Approaches to Literature: Myth

## LIT3420: Approaches to Literature: Psychology

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Readings in major theories of psychology and in literary works to which they apply.
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## LIT3930: Special Topics: Literature

Prerequisite: Sophomore standing or permission of instructor. Variable topics in literature. May be repeated up to 12 credits under different topics. Gordon Rule English credit.

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## LIT4042: Dramatic Literature

Description: This course offers students an opportunity to examine dramatic literature in different contexts. The course may focus on a period of dramatic literature, a genre, a theme or topic, or explore connections between drama and other modes of performance. Selected works may explore such topics as the representation of suffering on stage, the representation of women in tragic theater, the suicidal impulse in/of Modernism, the conflict between presentation and representation, or the enduring presence of tragedy. This course will provide instruction in methods for analyzing dramatic literature.

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LIT4083: Studies in Modern Literature
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Literature and culture of the modern era (roughly late 19th century to mid-20th century). May focus on a particular theme, author, genre, group of authors or national literature. Course may be repeated up to 12 credits under different topics.

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## LIT4093: Contemporary Literature

Various approaches to the literature of the generations since World War II. May be international in scope or may concentrate on the literature of one nation. Course may be repeated up to 12 credits under different topics.

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## LIT4104: Studies in Medieval Literature

Medieval culture as expressed through literary works by such authors as Chaucer, Dante, Langland, Gottfried von Strassburg and Petrarch. Literature interpreted in relation to social and artistic developments of the time.

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## LIT4186: Studies in Irish Literature

Prerequisite: Junior standing or permission of instructor. Approaches to the literature of Ireland, in English. May be a comprehensive course, including poetry, fiction and drama; may focus on one of these literary types. Writers such as Yeats, Joyce, Synge, O'Casey, Bowen, O'Connor, Trevor, Montague, O'Brien, and Heaney. Course may be repeated up to 6 credits with different topics.

## LIT4243: Major Authors

Prerequisite: Junior standing or permission of instructor. Study of writings by one or more authors. Variable topics. May be repeated up to 12 credits under different topics.

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## LIT4650: Comparative Literature

Variable topics; world literatures in translation. Course may be repeated up to 12 credits under different topics.

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## LIT4905: Independent Study

Prerequisite: Consent of instructor and department chairperson. Tutorials or senior theses handled under this title. May be repeated up to 12 credits under different topics and permission of department.

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LIT4930: Special Topics in Literature
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Prerequisite: Junior standing or permission of instructor. Topics of importance in literature. Course may be repeated up to 12 credits under different topics.

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## LIT4931: Special Topics in Cultural Studies

This course studies the interaction among texts and culture from diverse perspectivesaesthetic, economic, historical, and technological. Texts may be literary, filmic, televisual, or musical. Variable topics in cultural studies. May be repeated up to 6 credits with different topics.

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## LIT4934: Seminar in Literature

Prerequisites: 4 upper-division English courses or permission of instructor. This course serves as an advanced capstone for English majors. Its purpose is to provide an opportunity for small-group, intensive study and practice with both primary texts and approaches to literary criticism. Thus, integration of both in-depth studies of literary texts and critical skills will characterize the course experience.

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## LIT4935: Literary Themes

This course will analyze literary themes as they occur in several genres, periods, texts and traditions. The course may be repeated for credit with variable content.

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This course is designed to assist students with their general transition from high school to college. It will provide students with the knowledge, skills and values for a successful academic career. Students will be introduced to academic expectations, the culture of the university, effective study skills and habits, healthy and safe lifestyle choices, campus opportunities, information technology, academic resources, and career planning. The course will encourage active student involvement in the learning process.

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## THE2000: Theater Appreciation

This course is for students interested in understanding and appreciating one of the oldest art forms in the world. For thousands of years, humans have put on masks and adopted personas and behaved as if they were different from the people they are. Why? Why have they felt the need to pretend to be who they are not, to express feelings that are not really their own, and to direct their bodies to act out stories in front of spectators, stories in which they come into conflict with others? In order to address these and related questions, students will read plays, analyze scripts, and attend and write about local productions. They may also complete a group project in a live theater. No acting experience is required. The course can be applied to Category C for non-applied fine arts General Education credit.

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## THE3110: History of Drama and Theater I

Description: In this survey of Western drama, students will read and analyze selected tragedies and comedies from the Greek, Medieval, Early Modern, and Restoration periods. Students will reflect on: the religious, social, commercial, and political function of the theater and of drama throughout these periods; the movement toward a more secularized theater; the developments in the architecture of theaters and their implications for acting and audience expectations; the process of institutionalizing the theater with the construction of purpose-built theaters and the formation of acting companies made up of professional actors.

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## THE3111: History of Drama and Theater II

Description: In this survey of â€œmodern drama,â€ the drama that was written and performed in Europe and the United States from the late-nineteenth century to the mid-20th century, students will read and discuss realistic and naturalistic works of Ibsen, Chekhov, and Strindberg. Students will consider how American playwrights like Oâ€ ${ }^{\text {TM }}$ Neill, Miller, Williams, and Hansberry embraced and transformed realist tenets to represent a culturally and racially diverse American landscape. Students will also read and discuss the mid-20th century wave of anti-realistic movements and avant-garde experiments that include Brechtâ $€^{T M}$ s epic theater, Pirandelloâ $€^{T M}$ s meta-theater, and Beckettâ ${ }^{T M} s$ absurdist theater. The course will focus on how modern drama transformed the conventions of 19th century popular drama and the implications for acting and audience expectation.

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THE3170: Contemporary Drama and Theater

Description: This course surveys representative national or global dramatic works from the second half of the twentieth century to the present. Selected works may be organized according to common themes or topics: for example, the search for cultural identity, violence/war, peace, race, or family. This course will provide instruction in methods for analyzing dramatic literature and staging practices.

Description: This course focuses on an historical or artistic problem or a period, style, or playwright covering selected topics of current interest in drama or theater. It may be lecture, discussion, or studio format (reading and acting of scenes).
Repeatability: The course may be repeated up to 6 credits with different topics.
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THE4904: Independent Study in Drama and Theater
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Description: This course supports student-designed reading, research, or performance projects.
Repeatability: The course may be repeated for up to 12 credit hours and requires departmental permission.

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## THE4923: Theater Production: Behind-the-Scenes

Description: This course offers practical experience in the design and/or execution of department productions. Students will be involved in the practical exigencies of translating a script into a theatrical event. Students will engage in various aspects of theater production, including research, publicity and promotion, and/or set construction, lighting, sound, and costuming. This course is offered for variable credit and may be repeated for up twelve (12) credits. Department permission is required prior to registration.

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## THE4935: Special Topics in Drama and Theater

Description: This course can be offered as a lecture, seminar, or studio course covering selected topics of interest in drama or theater.
Repeatability: This course may be repeated for up to 6 credits under different topics.
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## TPP2100: Acting I

This is a beginning course in the fundamentals of acting. Students learn a working vocabulary and acquire basic skills of the acting process. Through formal and improvisational techniques for developing vocal, physical, and analytical skills associated with behavior-based acting, students explore the imagination as the actor's primary resource for building a character. Emphasis is on relaxation, trust, and mental agility. Some monologue and/or scene work may be required.

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Prerequisite: TPP 2100 or permission of instructor This is an advanced course in acting that builds on skills learned in Acting I. Students gain a working knowledge of the analysis,
rehearsal, and performance techniques associated with particular acting methods or styles. Different semesters focus on different styles depending on the semester's production schedule. Acting methods and styles include techniques associated with works in Realism and the American "Method" as practiced by Adler, Meisner, and Hagen; techniques associated with analysis and performance of the classical verse drama of Shakespeare and Moliere; techniques associated with Commedia, Expressionism, and Brechtian theater; techniques associated with more physically based systems such as Alexander and Suzuki. Students will read dramatic texts and theory. A commitment to substantial scene rehearsal is required. May be repeated for up to 6 credits.

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## TPP3241: Performing Civil Rhetoric

Description: This course is an introductory workshop addressing the theory, application, and facilitation of techniques associated with applied theater. Students will learn games, exercises and techniques for creating improvisations that empower participants to collectively investigate thorny issues, build consensus, and rehearse problem-solving strategies to implement in the real world. This course is for students interested in education, social work, allied health fields, the arts, or those interested in working toward social change in their communities. This handson, participatory workshop is $80 \%$ experiential and $20 \%$ reflective/didactic. No theater experience or training is necessary. Students will be asked to bring with them a desire to play, learn, and grow in an intimate, highly personal setting.

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## TPP4155: Theater Prodcution: Performance

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Description: This course is for students interested in acting in a major department of English production. The course focuses on preparing students for a role on stage. It includes script analysis, character development, and vocal and movement techniques associated with the acting method and style appropriate to the play being produced. Students will practice living in the moment as part of an ensemble and will be expected to demonstrate professionalism and teamwork. A commitment to substantial rehearsal time is required.
Repeatability: This course is offered for variable credit and may be repeated for up twelve (12) credits. Department permission is required prior to registration.

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## Undergraduate Courses

## Psychology

## Course Descriptions:

## CBH3004: Comparative Psychology

Prerequisite: PSY 2012.
Description: This course surveys the major concepts and approaches of the comparative study of behavior across a wide variety of species. Course content emphasizes an integrative approach to psychology by promoting an understanding of behavior in the context of the biological, ecological, and social milieu of the organism.

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## CLP2001: Personal Growth

Description: This course is an introduction to the concepts and techniques of psychology relevant to adaptive personal growth and development. Emphasis will be placed on interpersonal aspects of effective human behavior.

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## CLP4134: Childhood Psychopathology

Prerequisite: CLP 4143 or permission of the instructor
Description: This course provides an in-depth survey of common psychological disorders in childhood and adolescence. The characteristics, risk and protective factors, developmental course, and epidemiology of these disorders will be discussed. The course will also provide an overview of diagnostic and classification schemes, and research-based overview treatment and prevention strategies. Disorders discussed will include ADHD, learning disabilities, pervasive developmental disorders, anxiety, and depression.

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## CLP4143: Psychology of Abnormal Behavior

Prerequisite: PSY 2012
Description: This course will increase the student's comprehension of the biological, psychological and socio-cultural variables that influence the development of problem behaviors and the theories and research in the field of abnormal psychology.

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## CLP4183: Stress Management

Description: Stress has been shown to be a significant factor in many mental and physical disorders. This course surveys the major techniques currently available to aid the individual in coping with the effect of stress. Drugs, hypnosis, medication, biofeedback and life-style modification are discussed and demonstrated.

## CLP4313: Health Psychology

Description: This course introduces students to the mind-body relationship and the contribution of psychology in understanding health promotion, health care, and the etiology and treatment of physical illness. Representative topics covered in this course include changing health habits, stress and coping, health care utilization, patient-provider relations, and managing chronic illness such as heart disease, AIDS, diabetes, and cancer.

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## DEP2002: Foundations of Child and Adolescent Psychology

Description: This course is an overview of psychological principles, theories, and research pertaining to the developing child from conception through adolescence. The course will cover biological and environmental influences on affective, cognitive, moral, social, and personality development. This course will be oriented toward an applied understanding of child and adolescent development and therefore application to teaching and/or parenting needs.

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## DEP3054: Lifespan Developmental Psychology

Prerequisite: PSY 2012 or permission of the instructor
Description: This course provides a scientific account of human development from conception through adolescence, and into old age, with an emphasis on empirical findings and theoretical interpretations. Within this context, issues of nature-nurture and developmental continuitydiscontinuity will be explored.

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## DEP4060: Applied Developmental Psychology

Prerequisite: DEP 3054
Description: This course is designed to create a greater understanding of the interconnectedness of science and practice by dealing with the application of research in applied developmental psychology to a variety of areas including educational, clinical, medical and public policy. An optional associated practicum experience (PSY 4945) is offered with this course.

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## DEP4104: Advanced Child Psychology

Prerequisite: DEP 3054
Description: The goal of this course is to create a greater understanding of, and sensitivity to, contemporary child behavior by relating research to current problems in the home, the school, and society

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## Prerequisite: DEP 3054

Description: This course is designed to create a greater understanding of, and sensitivity to, contemporary adolescent behavior and its relationship to family, school, and society.

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Prerequisite: PSY 2012 or consent of the instructor
Description: This course is an introduction to current information and psychological research on aspects of old age and aging. Topics include the intellectual, motivational, psychobiological, performance and personality changes that occur in late adulthood and old age.

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## DEP4482: Death and Dying

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Prerequisite: DEP 3054
Description: End-of-life issues are examined within the more general context of lifespan developmental psychology. Topics discussed include historical perspectives, euthanasia, medical and legal issues, hospice, grief and bereavement, children and death, violent death/disasters/megadeath, and beyond death.

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EAB3013C: Foundations of Experimental Analysis of Behavior Lab

Prerequisite: PSY 3213 and PSY 3213L
Description: An introduction to reinforcement theory and the application of these principles to animals under controlled laboratory conditions. Topics include shaping, schedules of reinforcement, generalization, discrimination, secondary reinforcement, punishment, avoidance and changing of behavior.
Course Fees: \$15
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## EAB4703: Behavior Modification

Description: Students will learn to apply the principles of operant and respondent conditioning to the control of human behavior. Behavioral problems in business, education, and clinical settings are frequently amenable to the behavioral approach.

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EXP3104: Human Sensory Perception
Prerequisite: PSY 2012
Description: This course surveys sensory systems and perceptual processes, primarily in humans. Content includes anatomical structures, behavioral observations, and theoretical models. The interaction of biological systems and cognitive processes is emphasized. One system (e.g., vision) may be studied in considerable detail as a model of perception and perception research, with selected examples from other sensory systems to examine modalityspecific mechanisms and underlying principles of all perceptual systems.

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EXP3412: Learning Theory

Description: This course introduces students to variables affecting behavioral change in both man and animals. Emphasis is placed on an integration of these variables through the presentation of several theoretical perspectives on learning.

Prerequisite: PSY 3213 and PSY 3213L
Description: This course provides hands-on experience in conducting experiments in human learning and performance. The theoretical focus is on basic mechanisms of human learning from infancy to adulthood, with special emphasis on motor performance. The practical focus is on design of experiments, analysis of data, presentation of graphs, and on public as well as written presentation of research results. Topics for research projects may include computerized experiments on motor skills in aiming at targets, interception of moving targets, and visual guidance of motor skills.

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## EXP3604: Cognitive Psychology

Prerequisite: PSY 2012
Description: This course surveys topics in cognitive psychology, including attention, perception, memory, reasoning, problem solving, language, and cognitive development. Through lectures, readings, and classroom demonstrations, students will learn about empirical findings and theoretical issues pertaining to the scientific study of human information processing and cognition.

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## EXP3680C: Experimental Cognitive Psychology

Prerequisite: PSY 3213 and PSY 3213L
Description: This is a laboratory course in which students design, run, and report scientific research examining various cognitive processes involved in how people think. Topics for research projects may include memory, language, attention, reasoning, problem solving, and other mental processes used in human information processing and cognition.

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## EXP3703C: Computer Applications in Psychological Research

Prerequisite: PSY 3213 and PSY 3213L
Description: This course provides hands-on experience with using computers in psychological research. The focus is on computer applications in literature searches, in conducting actual and simulated experiments, and in statistical data analysis.

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## EXP4252C: Human Factors and Ergonomics

Prerequisite: EXP 3604, PSY 3213, and PSY 3213L
Description: This course will review principles of human factors/ergonomics design with an emphasis on ergonomic methods and evaluation techniques on modern product. The course covers user-friendly design, human information processing, display and control design, fundamentals of biomechanics and anthropometrics, musculoskeletal injuries (including cumulative trauma disorders such as carpal tunnel syndrome), and workload assessment.

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INP4004: Industrial Organizational Psychology
Prerequisite: SOP 3004
Description: This course addresses the application of psychological theory and practice to
problems in the world of work, including exploration of selection strategies, training procedures, performance appraisal techniques and the problems of leadership, communication, decision-making and motivation. Emphasis will be placed on the potential compatibility of the individual and the organization in a rapidly changing world.

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## PCO4004: Introduction to Counseling

Prerequisite: DEP 3054 plus PPE 4003 or CLP 4143
Description: This course covers the major counseling theories which include philosophical assumptions about human functioning, hypotheses about behavior change, and the goals and methodologies of these counseling approaches. Emphasis also is placed on research and ethical considerations.

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PPE4003: Theories of Personality

Description: This course attempts to develop an understanding of theories of personality structure and dynamics, from Freud to the present, in order to assist in the analysis of behavior.

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## PSB3002: Psychobiology

Prerequisite: Human Anatomy and Physiology, Zoology or General Biology with laboratory Description: This course addresses the examination of the biological bases of behavior. An initial coverage of the neural and endocrine systems is followed by an investigation of the role of these systems in sensory, motivational, emotional and learning processes.

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## PSB4113: Principles of Biofeedback

Description: An in-depth discussion of the major modes of biofeedback, including electromyographic and thermal feedback are presented. This course will introduce students to the advantages, disadvantages, safety precautions, ethics and major applications of biofeedback.

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PSY2012: Introduction to Psychology

Description: This course is an introduction to the scientific study of human and animal behavior. The principles, theories and methods of psychology will be surveyed in the context of topics central to the development and present status of the discipline.

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Description: This course allows students to explore topics of current importance in psychology. Topics will vary from semester to semester. May be taken by majors and non-majors.
Repeatability: May be repeated up to 12 credits

Prerequisite: PSY 2012
Description: This course provides a broad overview of educational and professional issues that are of relevance to students majoring, or considering a major, in psychology, including an overview of career options in the field of psychology. The course utilizes a mixture of seminar and lecture format.

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## PSY3213: Research Methods in Psychology

Prerequisite: STA 2014
Description: This course provides an understanding of the philosophy of science and psychology as a branch of science, enhances critical thinking and logical inference and elaborates basic research methodologies in psychology. Ethical principles in research also are covered.

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PSY3213L: Research Methods Lab
Prerequisite: PSY 3213
Co-requisite: PSY 3213
Description: This course provides psychology majors with basic experience in using computers to conduct statistical data analysis and literature searches. Previous experience with computers is helpful but not required.

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## PSY3810: Evolutionary Psychology

Description: Evolutionary Psychology is intended to provide a basic review of the physical, behavioral, and cognitive processes that may have evolved from naturally occurring biological forces, including social selection pressures, throughout human evolutionary history. The course focuses on research-based knowledge and application of evolutionary principles. Course topics include the form and function of human consciousness, interpersonal behaviors, and major bodily systems, including stress reactivity, emotionality, masculinity/femininity, culture, mate preferences, and social development.

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## PSY3911: Supervised Research

v. 13

Prerequisite: PSY 3213
Description: Credit is earned by working with a faculty member in a supervised setting on one or more psychological research projects. This may include laboratory research, data analysis, field experience, and library research. No more than three hours may be counted as part of the degree program. Grading for this course is on a pass/fail basis.

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## PSY4302C: Psychological Testing

Prerequisite: STA 2014, PSY 3213 and PSY 3213L
Description: This course is an introduction to the development, interpretation, and uses of
psychological tests and to the value and potential dangers inherent in their applications. Statistical and psychological concepts necessary for the interpretation of test scores are emphasized.
Course Fees: \$20
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## PSY4604: History of Psychology

Prerequisite: PSY 2012 or equivalent, junior or senior status, permission of instructor Description: This course offers an overview of the historical roots of psychology. Major conceptual developments since psychology became a distinct science are covered, as are the key figures in the history of the discipline.

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## PSY4904: (GW) Honors Research

v. 1-

Prerequisite: Admission to the Honors in Psychology Program, PSY 3214, and one experimental course
Description: The course provides a vehicle for students to work closely with a sponsoring faculty member on an individually supervised research project. Students must enroll for six hours total, which will usually be spread over two semesters. Gordon Rule Additional Writing credit.

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## PSY4906: Directed Individual Study

v. 1-

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Prerequisite: Fifteen core hours in psychology
Description: This Directed Individual Study may be repeated up to 12 credits under different topics but only 3 credits may be counted as a part of the degree program.
Repeatability: This Directed Individual Study may be repeated up to 12 credits.
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## PSY4931: Seminar

v. 1-

3
Prerequisite: Fifteen core hours in psychology
Description: This Seminar may be repeated up to 12 credits but only 3 credits may be counted as a part of the degree program.
Repeatability: This Seminar may be repeated up to 12 credits.
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## PSY4935: Special Topics in Psychology

v. 1-

Description: This course provides a way to explore topics of current importance in psychology. Topics may be initiated by faculty and/or students in consultation with the department chairperson. This course may be taken by non-majors.
Repeatability: This course may be repeated up to 12 credits but only 4 credits can be counted as part of the degree program.

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Description: This practicum involves placement in a community setting reflecting the student's main area of job orientation with supervision by faculty. This course may be repeated up to 12 credits but only 3 credits may be counted as a part of the degree program. For each hour of credit, at least four hours per week during the semester must be spent in practicum. Repeatability: This course may be repeated up to 12 credits.

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## SOP2772: Human Sexual Behavior

Description: This course will explore the psychological and physiological aspects of human sexual behavior. Emphasis will be placed on the cultural and biological diversity of sexual expression.

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## SOP3004: Social Psychology

Description: This course involves an introduction to the study of social influences on human behavior. The topics include social perception, affiliation, attraction, prosocial behavior, aggression, attitudes and attitude change, group behavior and leadership.

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## SOP3214C: Experimental Social Psychology

Prerequisite: PSY 3213 and PSY 3213L
Description: This course involves an introduction to the study of social influences on the behavior of individuals. The principles studied will be applied under controlled laboratory conditions.

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SOP3515: Fundamentals of Conflict Transformation

Description: This course explores the nature of conflict that is borne by individual, relational, cultural, and structural differences and inequalities. This course will teach undergraduate students the skills to engage in change efforts. Transforming conflict intrapersonally and pursuing peace building interpersonally, students are empowered to recognize and transform conflict in relationships, institutions, and organizations. The course is designed to facilitate a perspective that is insightful and competent in creating change for people whose culture, philosophy, racial identity, gender, sexual orientation, abilities, age, religious orientation, and socio-economic status are a damaging source of conflict.

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SOP3723: Culture and Psychology
Prerequisite: PSY 2012
Description: This course introduces the student to the essential concepts and research in the fields of cultural psychology and cross-cultural psychology. Human behavior and mental processes in various cultures and ethnic groups will be studied. Topics covered in class include definitions of key terms, methodological approaches to the study of culture, acculturation, ethnocentrism, multicultural competence, culture and health, culture and
emotion, culture and language, culture and decision making, cultural values, and culture and organizations. The course will follow different didactic methods, e.g. lectures, group work, movies, presentations, discussions, activities, field trips, and assignments.

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## SOP3742: (CD) Psychology of Women

Description: This course involves an investigation of major personality theories and clinical practices as they relate to female psychology. Findings from the field of psychology regarding differences between males and females will be explored.

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## SOP3751: Psychology and the Law

Description: This course is an introduction to the study of the legal system from a psychological perspective. The course will use psychological concepts and methods to aid in the understanding of the legal system. Topics include theories of criminal behavior, victimization, law enforcement, the jury trial, witnesses, verdict and sentencing, mental illness, corrections, and family law.

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## Table of Contents

## Undergraduate Courses

History

## Course Descriptions:

## AFH3200: History of Modern Africa: From 1807-Present

Description: This course explores the history of Sub-Saharan Africa from the end of the TransAtlantic Slave Trade to the present. Emphasis will be placed upon African perspectives toward trade; the partition of Africa; methods of colonial rule; the rise of nationalism; decolonization movements; and the emergence of post-colonial nation-states.

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## AFH3252: African History Since Independence: Contemporary Problems and Prospects

Description: Africa's post-colonial history is designed to introduce and further develop student interest and knowledge about current problems that many Sub-Saharan African countries face. We will use several important case studies from a variety of African nations to talk about four broad, but pressing problems: aid and development; HIVIAIDS and malaria; genocide; and child labor/child soldiers.

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## AFH3450: (CD)(FC) South Africa

This class investigates the origins and development of South Africa from the colonial period in the seventeenth century to the present. The course examines the complex interactions between the myriad groups during different eras of South African history. The class also compares and contrasts the history of race relations in South Africa and the United States.

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## AMH2000: United States History Survey

This is a one semester course examining significant events and themes of the American past, and the men, women, institutions, ideas and forces that have shaped that past into our contemporary civilization.

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AMH2010: United States History to 1877
This course emphasizes the European background, causes and consequences of the Revolution, growth of democracy, westward expansion, causes and consequences of the Civil War and Reconstruction.

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A history of the United States since 1877 emphasizing industrialization and urbanization, the Progressive period, the New Deal, post-World War II domestic reform and the emergence of the U.S. as a world power.

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## AMH3111: Early America

The European background of colonization and the evolution of social, political, economic and religious institutions in the colonies to 1763; the development of slavery; white-Indian interactions and their environmental consequences.

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## AMH3130: American Revolution/Constitution

An examination of the economic, political and social causes and consequences of the American Revolution; the impact of international events on the course of the revolution; and the origins of the Constitution.

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## AMH3150: Age of Jefferson and Jackson

The era encompassing the lives and careers of Thomas Jefferson and Andrew Jackson, with special reference to the emergence of major political parties and social attitudes and government policies regarding Native Americans and Afro-Americans.

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## AMH3170: Civil War/Reconstruction

Examines the economic, political, social and moral origins of the war; the course of the conflict; and the meaning and impact of Reconstruction.

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## AMH3192: Mark Twain's America

American society, culture, and politics during Mark Twain's lifetime, 1835-1910, as seen through books written or published by Mark Twain.

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## AMH3202: The United States Since World War I

Examines the social, political, economic, technological and cultural forces and events that have shaped American history since World War I.

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## AMH3220: The Making of Modern America 1877-1920

This course examines the transformation of American society from the end of the Civil War era through the First World War in the areas of industrialization, urbanization, immigration, diplomacy, government, culture, and the way Americans thought about themselves.

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This class offers an investigation of the many facets of America in the 1920s. The themes and images portrayed in the literature of the period will constitute one major focus of this course. Students will read poetry and prose of major American artist of the period. Students will also investigate accounts of historians and other scholars who analyze the social, economic, political and cultural dimensions of the decade known as the "Jazz Age" and the "Roaring 20s".

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## AMH3312: CD-Gender in the United States

This course explores the changing meaning and significance of gender and sexuality in the United States over time and across cultures. Particular attention will be paid to variations in gender roles, the status of men and women, sexual behavior and identity in diverse cultures in America, as well as challenges to gender and sexual status quo from the colonial period to the present.

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## AMH3402: History of the Old South

This course will introduce students to the history of the American South from the beginnings of European settlement in the early 17th century to the end of the Civil War. We will explore the various peoples that interacted in different parts of the South, including Native Americans, Africans, and British, French, and Spanish colonists. A central theme of the course will be the development of racial slavery in Britain's North American colonies. We will explore how and why this institution developed and seek to understand the experience of both slaveholders and enslaved people. We will also look in detail at the social and economic growth of the Southern colonies and their participation in the larger Anglo-American world. Students will examine how important movements and events in American history were created and experienced by Southerners, including the American Revolution, the Second Great Awakening, Jacksonian political battles, and the Market Revolution.

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## AMH3403: History of the New South

This course introduces students to the history of the American South after the Civil War. We will consider the separate regions of the South-Lowcountry, Peidmont, Mountain- and how these have changed over time. A central focus of the course will be the development and changes in Southerners' thinking about race and racial difference. We will also consider other ways that Southerners identified and organized themselves- by gender, class, religious beliefs, political ideologies, and residence. Of central importance will be the social and economic changes in the 20th century South, including the increased industrialization and urbanization of the region.

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## AMH3420: Florida History

History of Florida from its colonial origins to the present. Economic, social, and political developments in Florida will be compared to other states in the region and in the nation. Case studies of topics in Florida history will focus on Jacksonville and other cities and regions in the state.

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An examination of the frontier, both as historical reality and as historiographical concept, in


#### Abstract

AMH3444: CD - Peoples of the American West The course constitutes the history of various groups of people who have populated the American West from pre-Columbian times to the present. The Southwest will be the focal point. Many references, however, will be made to the Pacific Northwest.


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## AMH3460: American Cities and Suburbs

This course examines urban growth from colonial towns and cities to 20th century metropolitan centers. It also focuses on city builders, party bosses and reformers, immigrants and black migrants, slums and suburbs, and popular culture to offer a historical perspective on contemporary American society.

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## AMH3511: The United States in World Affairs

A thematic analysis of U.S. foreign policy from independence to the present. Concepts like self-defense, economic expansion, international policeman and moral crusading are examined in connection with major events.

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## AMH3530: (CD) The Peopling of America

The personal and collective experiences of immigrants who arrived in the U.S. during the 19th and 20th centuries, focusing on Irish, Jewish, Swedish, Norwegian, Japanese, Chinese, other Asian Americans, Mexican, and Puerto Rican immigrants.

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## AMH3544: The 1960s and Vietnam

An examination of the key political, economic, and cultural developments in the U.S. during the 1960s, with special reference to the Kennedy and Johnson administrations; and analysis of the Second Indochina War from Vietnamese and American perspectives.

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## AMH3571: (CD) Introduction to African-American History

The African-American experience from the colonial period to the Civil War era, from slavery to freedom. Key themes include the evolution of the African-American family and community, and the emancipation and civil rights movements before the 20th century.

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AMH3580: (CD) American Indian History
This course examines North American Indian history from the pre-colonial period through the late twentieth century. We focus on understanding how different American Indian nations resisted and responded to the challenges (and opportunities) presented by European colonization, westward expansion, and U.S. federal and state policies. The course studies the diversity of American Indian societies and their experiences, and the historical roots of key issues in American Indian communities today.

## AMH3590: American Biography

American history through the life and times of notable, and not so notable, men and women, examining how they affected their world as well as how their world affected them.

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#### Abstract

AMH3672: Atlantic Slave Trade This course introduces students to the origins of the slave trade between Africa and the Americas. Specifically, we will examine the motivations that drove Africans and Europeans to create a system of slave sales and use in the New World. We will attempt to understand the people of early modern West and Central Africa on their own terms, explore western Europe and the aspirations and purposes behind the exploration of both Africa and the Americas, understand the processes and outcomes of the Trans-Atlantic Slave Trade, and explore the development of multiple slave systems within the Americas.


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## AMH3673: The Civil Rights Movement

The history of the Civil Rights Movement in the late twentieth century in the United States is the focus of this course. In addition, the role of the media and the way in which various aspects of popular culture have promoted and depicted the struggle for racial equality in America will be examined. Consequently, in addition to standard history text, the students will read and analyze literary works, films and music to gain insight into the social, political and cultural impact of the Civil Rights Movement.

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## AMH3932: Selected Topics: US History

This course will present selected topics in US history. Subjects will vary according to instructor. The course may be repeated up to five times for a total of 15 credits under different topics.

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## AMH4291: Seminar: 20th Century America

Prerequisite: HIS 3051 or permission of instructor. An investigation of topics, eras, or themes in U.S. history in the 20th century. Topics, eras or themes may vary. May be repeated for 6 credits with consent of the instructor.

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AMH4390: Seminar: 19th Century U.S.
Prerequisites: HIS 3051 or permission of the instructor. This seminar will investigate topics, eras, or themes in U.S. history in the 19th century. Topics, eras, or themes may vary.

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AMH4491: Seminar: Local History
Prerequisite: HIS 3051 or permission of instructor. A research and writing workshop intended for any upper-level student seriously interested in local history. Although the focus of the seminar is the Northeast Florida region, the techniques learned should be equally applicable to any locality in the U.S.

## AMH4497: Seminar: History of the American City

Prerequisite: HIS 3051or permission of instructor. Urban America since World War II; federalcity relations, suburbanization and sprawl, urban minorities, urban culture, downtown revitalization, and the rise of the Sunbelt. Special attention will be given to Jacksonville.

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## AMH4514: Seminar: U.S. Diplomacy

PREREQUISITE: HIS 3051 or permission of instructor. An investigation into topics in U.S. diplomatic history, such as World War II, the Cold War, Inter-American Relations. May be repeated for 6 credits with consent of the instructor.

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## AMH4906: Directed Individual Study

Prerequisite: Written consent of the instructor. May be repeated for 6 credits with consent of chairperson.

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## ASH3200: (FC) - Ancient Near East

This course provides an introduction to the history and cultures of the ancient Near East. Starting with the origins of civilization in Mesopotamia and Egypt, it traces the spread of cities, writing and literature, the arts, religion and thought throughout the Fertile Crescent, to the rise of Islam. The interactions of the peoples of the Near East - the Sumerians, Babylonians, Assyrians, Hittites, Egyptians, and Hebrews - and the continuity of cultural traditions in the region will be stressed

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## ASH3223: (CD)(FC)Middle East

An introduction to the historical forces shaping the Middle East, such as Islam, nationalism, Westernization, and nation-state building. Topics covered include: Islamic civilization, the Ottoman Empire, the Eastern Question, the Arab awakening, the Iranian Revolution, the ArabIsraeli dispute, and the regional and global repercussions of contemporary issues.

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## ASH3337: (FC) Gandhi and Modern India

This course scrutinizes recent interpretations of Gandhi's life and thought, and most especially his roles as a religio-philosophical teacher and a nationalistic political leader. It aims to add new dimensions of knowledge about the Indian leader, his nation, and the world-wide impact of his ideas.

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ASH3401: Contemporary China
This course is designed to introduce students to major themes in contemporary Chinese history from the death of Mao Zedong in 1976 to the present. The course is designed chronologically and thematically to enhance students' grasp of factual material, and to provide
greater insight into social, cultural and intellectual currents. Through a series of readings, images and films students investigate the dramatic cultural, economic, social and intellectual upheavals the People's Republic of China has experienced in recent decades.

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## ASH3402: Traditional China

Traditional China evokes a vision of a virtuous emperor in the center, who, with the help of a cumbersome bureaucracy, broadcasts to the empire timeless Confucian ethical principles such as loyalty and filial piety, so as better to govern a stable and compliant agrarian society. Fortunately, this apparently rigid mold proves, more often than not, to be plastic. Broken up by periods of chaos and upheaval, traditional China features a flamboyant pageant of charactersmegalomaniacal emperors, devious palace women, sycophantic poets, wandering scholars, calculating merchants, scheming ministers, daoist mystics, and rebel peasants claiming appointments from heaven-who collectively flaunted, challenged, and reshaped its structure.

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## ASH3404: Modern China

In 1750, Qing China was populous, vibrant, and strong. By 1911, gutted by savage civil wars, foreign imperial powers, and corruption, the last of the Chinese dynasties collapsed. The pillars that had for more than two millennia upheld the edifice of traditional China-the imperial monarchy and the Confucian bureaucracy-were no more. This course follows the painstaking transition from tradition to modernity in China, as the Chinese culture transformed gradually into a Chinese nation. Themes include: imperialism, westernization, nationalism, tensions between traditional and modern ideas, student activism and political change, and democracy and communism.

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ASH3440: (CD)(FC) Japanese Civilization
This course aims to provide the student with an introduction to Japanese history and society. Topics will include Japanese ethnocentrism, religious traditions, historical consciousness, village society, urbanism, family life, education, contemporary politics, Japan's economic miracle, consumerism, sports and the arts. We will look at the Japanese as they see themselves

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ASH3441: Japan Before 1868
This course covers the period from the ancient creation of the Imperial system through the rise of the military class. Readings will reveal the Japan of gods and goddesses, samurai, the great Buddhist academies and the classic arts of the tea ceremony, gardening, sculpture, literature and martial skills.

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## ASH3448: (CD)(FC) Hiroshima

This course examines U.S.-Japanese relations as defined by the atomic bombings of Hiroshima and Nagasaki. The first half of the course focuses on the causes of World War II, as well as the U.S. decision to use the bomb. The second half examines the consequences in Japan and the United States.

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Asian Art and Culture explores the various genres in the visual arts of the Islamic world, and the civilizations of India, China, and Japan. The literary and performing arts are examined as they relate to ceramics, sculpture, painting, cinema, and architecture.

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## ASH3932: Selected Topics: Asian History

This course will present selected topics in Asian history. Subjects will vary according to the instructor. The course may be repeated up to 5 times for a total of 15 credits under different topics.

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## ASH4934: Seminar: Asian History

Prerequisite: HIS 3051 or permission of instructor. This course is a seminar in Asian history. The topics will vary with the instructor. The course may be repeated up to 5 times for a total of 15 credit hours under different topics.

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ASN2003: (CD) Introduction to Asia
An introduction to the history and culture of Asia. In addition to examining selected aspects of Asia's past and present, we will also explore the problems of "Orientalism" and the historical standards employed in various chronicles of Asia (required for the minor in Asian studies).

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## ASN3106: (FC) Japanese Women

This course examines the place of women in Japanese society, history, literature, religion, and art. It also assesses women's contributions to, and their status and roles in, those aspects of Japanese culture.

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## EUH1000: (GW) Freshman Core I

First part of a two-term interdisciplinary survey course that combines Western civilization lectures with discussions of major works of Western culture. Students are encouraged to take both EUH 1000 and EUH 1001 but only one of the two courses is required of all freshmen. Gordon Rule Additional Writing credit.

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## EUH1001: (GW) Freshman Core II

Second part of a two-term interdisciplinary survey course that combines Western Civilization lectures with discussions of major works of Western culture. Students are encouraged to take both EUH 1000 and EUH 1001 but only one of the two courses is required of all freshmen. Gordon Rule Additional Writing credit.

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Twentieth Century), this course offers students an opportunity to study major cultural landmarks in at least two European countries each year.

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## EUH3013: Greek and Roman Myth

This course will provide an introduction to the Classical myths by reading works translated from the Greek and Latin originals. The class will compare the myths with myth traditions in other cultures; explore the myths in relation to the religion, art, history and philosophy of ancient Greece and Rome; and, by using the insights of comparative anthropology and psychoanalysis, attempt to illuminate the underlying structure and significance of the ancient myths.

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## EUH3120: Medieval Europe

Traces development in government and society from the collapse of the Roman Empire in the West through the revolutionary High Middle Ages to the violence of the 14th century.

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EUH3124: The Crusades
The course examines the deep roots of the crusading movement in Western Christian society, the ways in which the crusades brought three world cultures (the West, Byzantium, Islam) into contact and confrontation, the type of cultural interaction that took place, and the continued vitality of the crusading idea in the expansion of Western Europe.

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## EUH3142: Renaissance-Reformation

From 1300 to 1600 , European society experienced profound changes in its political, religious, social and economic way of life, changes rooted in new views of the world.

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EUH3202: Enlightenment and Power: Europe 1660-1789
This course examines European ideas, society, and politics from the restoration of the British monarchy in 1660 to the fall of the French monarchy.

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## EUH3205: 19th Century Europe

An examination of European history from the French Revolution to the First World War, focusing on the dynamics of change in European politics, society, thought and culture.

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## EUH3206: 20th Century Europe

An examination of Europe from the Russian Revolution to the present, analyzing the development of contemporary European politics, society and thought.

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This course examines the major causes, issues phases, and legacies of the Holocaust - Nazi Germany's organized and systematic destruction of European Jewry and various other nonJewish groups from 1933 to 1945. Topics include debates among historians about the planners and perpetuators, collaborators and accomplices, victims, bystanders, rescuers, victims and survivors, and those who continue to bear witness.

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## EUH3312: History of Spain

This course is a survey of Spanish history from the Moorish invasions of the eighth century to the end of the Spanish Civil War in the 1930s. Topics will include the Christian reconquest of the peninsula, the expulsion of the Moors and the Jews, the conquest and colonization of the Americas, the Black Legend, and Spain's economic crisis of the seventeenth century. However, particular attention will be given to two topics: the nature of the Spanish Inquisition and the history of the Spanish Civil War.

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## EUH3320: Eastern Europe

This course examines the major events, ideas, and issues which have shaped the history and culture of Eastern Europe from 1700 to the present. Topics include the impact of the Habsburg and Ottoman Empires, the growth of national movements and nation-states, the influence of Europe's great powers, and the transformations caused by war, revolution, nationalism, communism, social and ethnic conflict, and democratization.

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## EUH3403: (FC) Ancient Greece

This course provides a comprehensive examination of the culture of ancient Greece from Mycenaen times to the death of Alexander the Great. An historical approach will be supplemented by analysis of Greek literature, art, and thought.

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## EUH3411: (FC) Ancient Rome

This course examines the culture of ancient Rome from the days of the early kings to the collapse of the Roman empire. An historical approach will be supplemented by analysis of Roman literature, art, and thought.

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## EUH3451: France Since 1789

Examines political, social, economic, and cultural aspects of French history since the Revolution.

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## EUH3462: Modern Germany

A history of modern Germany from 1815 to the present, concentrating on the period from unification under Bismarck to present-day Germany. Offered in alternate years.

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## Reich

This course traces the history of Nazi Germany from the rise of Hitler in the 1920s, to the end of the Third Reich in 1945. We also consider major themes such as European anti-Semitism, the personality of Hitler, every day life in the Third Reich, resistance, war, and the Holocaust.

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## EUH3466: (FC) Germany Today

An examination of social, political, and cultural trends in Germany since World War II. Emphasis is on German democracy, the economic rebuilding, the burden of the Nazi past, national identity, the role of intellectuals, and Germany's relationship to Europe and America. Special attention is given to developments since the 1990 unification.

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## EUH3502: Modern Britain

Examines the political, economic and social transformations of the United Kingdom from 1714 to present.

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EUH3511: Tudor-Stuart England, 1485-1714
The era of the Tudors and Stuarts, including such momentous events as the establishment of the Anglican Church, overseas colonization, the Puritan rebellion and the Glorious Revolution.

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## EUH3530: History of the British Empire

Beginning in the 16th century and re-inventing its purpose in the 19th century, England established an international empire. This course examines the origins, growth, zenith, and decline of that empire with an emphasis on the non-Western world.

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## EUH3533: The Making of Modern Ireland

This course is a broad survey of Irish history from St. Patrick (c. 400 AD) to the present troubles. The course employs primary sources, literature, and historical monographs as well as music and film.

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## EUH3575: Imperial Russia

This course examines Imperial Russia from the time of Peter the Great to the 1905 revolution. It will focus on Russian political, social, economic, and cultural developments.

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## EUH3576: Russia Since 1905

This course examines Russia from the 1905 revolution to the present, analyzing the development of contemporary Russian politics, society, and culture. Emphasis is on the major figures, ideas, issues, events, and institutions which have shaped Russia since the late tsarist era. Topics include war, revolution, civil war, communism, nationalism, collapse of empire, and democratization.

## EUH3580: (CD)(FC) Russian Thought and Culture

This course is a survey of religion, art, literature, and other aspects of Russian thought and culture. Topics include religious and artistic expression in medieval Russia; secular transformation launched by Peter the Great and his imperial heirs; social commentary and dissent in literature; revolutions in art, society and politics; and legacies of the Stalin and Gorbachev eras for understanding contemporary Russian civilization.

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## EUH3581: Russia in Asia

This course examines Russia's historical and cultural interactions with Siberia, Central Asia, and Transcaucasia from the 16th century to the present. Topics include the conquest and colonization of imperial borderlands, the variety of relationships between European Russia and Asian frontiers, and contemporary developments in the Asian regions of the former USSR.

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## EUH3932: Selected Topics: European History

This course will present selected topics in European history. Subjects will vary according to the instructor. The course may be repeated up to 5 times for a total of 15 credits under different topics.

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## EUH3957: European History Abroad

This special topics course involves students in learning an aspect of European history with all or part of the course taught on-site in Europe. Topics vary with the instructor. The course may be repeated for credit, up to a maximum of 6 semester hours.

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EUH4103: From Homer to Herodotus: Greece in the Archaic Age

Prerequisite: HIS 3051 Craft of the Historian or permission of instructor. The archaic Age of Greece (8th to 5th centuries BCE) began with the epic poetry of Homer and ended with the first work of Greek history, by Herodotus. This course will explore the forces that shaped Greek society: the formation of the polis, the introduction of the alphabet, the spread of Greek settlements along the shores of the Mediterranean and Black Seas, the development of Greek art, architecture, poetry and philosophy, and the rise of democracy in Athens. It will investigate the intellectual climate that gave birth to the discipline of history in Greece as a way of understanding the past and the present.

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## EUH4294: Seminar: Modern Europe

Prerequisite: HIS 3051 or permission of instructor. An investigation of a specific era or topic in European history since the French Revolution. Topics vary. May be repeated up to a total of 6 credits with consent of instructor.

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Prerequisite: HIS 3051 or permission of instructor. This seminar will examine the causes, strategies, events, and personalities of one of the greatest conflicts of the ancient world. Students will study Thucydides' history and other ancient Greek sources (in translation) to come to an understanding of the war and the methodology of the ancient historian.

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## EUH4408: Alexander the Great

Prerequisites: HIS 3051 or permission of instructor Alexander III, king of Macedon (336-323 BCE), led an army of Macedonians and Greeks on a campaign to conquer the Persian Empire. By the time he died of disease and exhaustion, he had brought much of the known world under his control. This course will trace the life of Alexander, starting with the career of his father Philip, a powerful king and conqueror of the Greek city-states. We will study the impact of Alexander's conquests on the world and examine the ancient sources that preserve the record of his achievements. We will attempt to understand the man himself and to place him against the background of the social and political forces which transformed the ancient world.

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## EUH4932: Seminar: Ancient/Medieval History

Prerequisite: HIS 3051 or permission of instructor. This course is a seminar in ancient or medieval European history. The topic will vary with the instructor. The course may be repeated up to 5 times for a total of 15 credit hours under different topics.

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## HIS2930: Selected Topics

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Variable topics in history. May be repeated for a maximum of 6 credits.
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HIS3051: (GW) The Craft of the Historian
Introduces students to the skills, approaches, and theories used by historians; includes both discussion and practice of the craft of the historian. Gordon Rule Additional Writing credit.

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## HIS3065: Public History

This is an introductory class to the field of public history. Public History is the application of the information, expertise and practices of traditional academic history to non-academic venues. Particular emphasis is placed on the "nuts and bolts" of historic preservation. Students will learn about various aspects of public history from field trips to such institutions as history museums, special collections departments of libraries, art museums, and park service locations. In addition to relevant readings, students will be given assignments to help acquire practical experience in the field. For example, students will be required to complete a local historic landmark application.

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the 20th century forms of total war and guerrilla warfare.
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## HIS3317: History in Photography and Film

This course considers how photographs and film (including documentary and feature films) both distort and reflect historical reality, and how photographs and films can be used as historical evidence.

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## HIS3403: Nature, Power and Metropolis

We will explore key relationships of power, class, and ethnicity, in addition to problems like sprawl, pollution, and environmental racism. We take a thematic approach, exploring the following broad topics: Part I, how society used natural resources like water and timber to build large cities during the industrial revolution; Part II, how burgeoning urban areas transformed their surroundings, leading to smoky skies, polluted canals, and dense housing; Part III, how different social and political groups have thought about and tried to improve the urban environment, reacting to issues like pollution, disease, and natural disasters.

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## HIS3490: History of Medicine and Disease

The development of the modern medical and allied health professions, with special reference to the U.S. from the late 18th through the 20th century; social, scientific, and historical factors that determine the nature, extent and definition of disease.

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## HIS3931: Topics in Law and Society

This course offers a series of intensive historical case studies on how the law affects, and is affected by social developments. Representative topics include violence in America, the death penalty, and lawyers and lawsuits. In each instance, the approach is historical, emphasizing the social causation of important long-term changes, such as the fluctuating rate of homicide cases or the growing willingness to sue health-care providers. Students may take each course as a one-credit, five-week, "stand alone", or as a semester-long sequence of one-credit courses on different aspects of law and society. Students may take up to six different onecredit courses, earning a total of no more than six credits.

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HIS3932: Selected Topics:History
May be repeated for a total of 18 credits under different topics.
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## HIS4906: Directed Individual Study

Prerequisite: Written consent of the instructor. May be repeated for a total of 6 credits under different topics.

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Prerequisite: HIS 3051 or permission of instructor. May be repeated for a total of 15 credits under different topics.

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## HIS4940: Internship in History

Prerequisite: History major or minor, 3.0 GPA, junior or senior standing, and permission of the department chair are required. Provides a supervised work experience in an area historical, archaeological or cultural organization. Students must work at least 160 hours per semester. May be repeated for up to 6 credits.

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HIS4970: (GW) Senior Honors Thesis
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Prerequisite: Acceptance to the Honors in the Major track in history. Research and Honors thesis writing under supervision of a department committee. May be repeated for a maximum of 6 credits.

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## IDS3949: Experiential Studies in Liberal Arts

Prerequisite: Acceptance in cooperative education program. Students will participate in supervised work experiences related to their areas of interest. Students may repeat this course for credit, up to a total of six (6) semester hours.

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## IDS4910: Liberal Studies Exposition

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A major research effort, culminating in a paper, project, or public presentation related to the student's declared major theme. Student must have prior approval for the exposition from the department chairperson. May be repeated up to 9 credits.

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## LAH3135: Spain in the New World

This course will introduce students to the early years of colonial rule in Latin America. The course will cover the period bound roughly from the rise of the Inca and Aztec empires to the end of Habsburg rule in Spain. Particular attention will be given to the complex issues of religious change, acculturation and resistance, and ethnic and race relations, both before and after the conquest. By exploring these broad themes, students will be better able to comprehend the complex relationships between Amerindians, Africans and Europeans.

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LAH3300: (CD)(FC) Latin America
An examination of recent Latin American history. Special emphasis will be placed upon the roles of the church, landowner, military, middle sector and peasant in the modernizing societies of selected countries.

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This course is an introduction to the history of Mesoamerica and the Andes prior to 1492. Special attention will be given to the historical development of the Maya, Aztec and Inca civilizations; however, the course will also emphasize the importance of other peoples and cultures such as the Olmecs, Toltecs, Mochica, Chimu and Muisca. Through a careful examination of archaeological and historical evidence, this course will examine major political, religious, and economic changes in the Americas before the arrival of Europeans.

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## LAH3712: (FC)Inter-American Relations

A historical examination of relations between the United States and Latin America emphasizing such issues as economic development, drug trafficking, human rights and national security. The course will focus upon the large Latin American nations such as Argentina, Brazil, Chile, Mexico, and Peru.

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## LAH3735: Colonial Latin American History Through Film

This course is designed to introduce students to major thematic issues in colonial Latin American history and their cultural representation through film. The course is designed chronologically, and serves to extend the students' grasp of factual material as well as to highlight key historical issues.

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## LAH3736: (FC) Modern Latin American History Through Film

This course is designed to introduce students to major thematic issues in Latin American history and their cultural representation through film. The course is organized chronologically, and serves to extend the students' grasp of factual material as well as to highlight key historical issues.

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LAH3932: Selected Topics: Latin American History
This course will present selected topics in Latin American history. Subjects will vary according to the instructor. The course may be repeated up to 5 times for a total of 15 credits under different topics.

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## LAH3955: Latin America Abroad

This course offers students the opportunity to study and to visit some of Latin America's most fascinating pre-Columbian and colonial sites. Trips are scheduled for early May and the destinations alternate yearly between Mexico/Central America and the Andes.

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## LAH4932: Seminar: Latin American History

Prerequisite: HIS 3051or permission of instructor. This seminar course will involve students in an intensive study of an aspect of Latin American history. Topics vary with the instructor. The course may be repeated for credit as long as the topic differs, up to a maximum of 3 times.

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This course will provide a survey of world history from earliest human prehistory to the later middle ages. It will introduce students to the major civilizations and societies of Europe, Asia, Africa and the Americas. It will trace key developments in political organization, religion, culture and society in the different regions of the world, and will compare those developments in order to provide insight into the fundamental dynamics of human history. The course will also explore the interactions between the different regions, in order to assess the role of intercultural contacts in promoting change in human societies. Gordon Rule additional writing credit.

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## WOH1022: (GW) World History II

This course will provide a survey of world history from the later middle ages to the present. It will introduce students to the major civilizations and societies of Europe, Asia, Africa and the Americas. It will trace key developments in political organization, religion, culture and society in the different regions of the world, and will compare those developments in order to provide insight into the fundamental dynamics of human history. The course will also explore the interactions between the different regions, in order to assess the role of intercultural contacts in promoting change in human societies. Gordon Rule additional writing credit.

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## Undergraduate Courses

## Sociology, Anthropology, and Social Work

## Course Descriptions:

## ANT2000: (CD) Introduction to Anthropology

An introduction to the critical issues in anthropology. The major subfields of archaeology, physical anthropology, linguistics, and cultural anthropology are examined for an understanding of contemporary and past cultural issues such as the rise of civilization, origins of language, and the roots of social inequality.

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## ANT2100: Introduction to Archaeology

The basic theoretical and methodological principles of American archeology. The course covers the methods and tools used by archaeologists, the framework of inquiry and methods of recovery, analysis, interpretation and explanation.

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## ANT2423: (CD) Kinship and the Family

This course introduces students to the study of kinship and gender in an anthropological perspective. Topics covered include, but are not restricted to, gender distinctions, body images, descent, inheritance, courtship, love, marriage, family forms, kin networks, and new reproductive technologies. Students will be presented with detailed case studies both within and outside the Euro-American tradition.

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ANT2930: Special Topics in Anthropology
Examination of topics of current importance in anthropology. Topics may vary. May be repeated for 6 credits.

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## ANT3101: Fundamentals of Archaeology

Archaeology is one of the four fundamental sub-fields of Anthropology in the United States. This course covers the fundamental analytical methods that have been and are currently employed by archaeologists to reconstruct past life ways, cultures, and societies. In particular, this course will explore the material culture studies and other evidence used by archaeologists. Topics of inquiry include excavation procedures, sites survey, dating techniques, site formation processes, paleo-environmental reconstruction, artifact analysis, and key laboratory techniques. Additionally, the course will cover the history of archaeological legislation and regulations that apply to public archaeology, ethical principles of archaeological practice, and the basics of curation and museumology. Finally throughout the semester, we will explore the importance and relevance of archaeology to the modern world.

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This course uses a comparative approach to investigative common bonds of culture and the ways in which Homo sapiens elaborate cultural differences. This course uses cross-cultural evidence to investigate some of the fundamental cultural building blocks of kinship, subsistence technology, and political behavior.

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## ANT3243: (FC) Comparative Muslim Cultures

This course concerns popular or local "Islams" throughout the world. This course will take an anthropological perspective and will use Muslim examples to explore the theoretical and methodological issues involved in the study of religion. We will also employ a variety of approaches to the study of religion to help the student understand a variety of social and cultural phenomena including religious education, the construction of gender identities, revitalization movements, fundamentalism, and religion and politics. The anthropological approach to Islam is clearly distinct from a theological or philological one. In other words, we will concentrate more on the culture and practice of contemporary Muslims than on Islam's sacred texts. We are particularly interested in the cross-currents that are found in otherwise diverse societies.

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## ANT3311: FC - Indians of the Southeastern U. S.

This course investigates the indigenous populations of the Southeastern United States. Material covered ranges from the prehistoric record to European Contact to the historic transformation and/or destruction of these groups. This class covers a broad range of topics and native groups.

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## ANT3312: CD - (FC) North American Indians

This course examines selected Indian groups from a holistic perspective and compares different cultural complexes. Particular attention will be given to religion, world view, kinship, politics and economic subsistence patterns. A study of aboriginal Indian cultures will be used as a basis for comparison with current American cultures.

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#### Abstract

ANT3320: Native Peoples and Cultures of the Southwest This course provides an overview of the pre-Columbian indigenous cultures of the North American desert west. It begins with an examination of the pre-Hispanic societies of the region. Lectures and readings will focus upon the appearance, evolution, and history of these traditions up through contact with Europeans. Students will then be exposed to the cultures currently existing within northern Mexico and the southwestern U.S. including; the Apache, Opata, Raramuri, Dine, Paiute and Ute, Yaqui, Huichol, Tohono O'odham, Hopi, Zuni, and eastern Puebloans. The course will also explore how contact with Europeans led to changes in these societies and how current political boundaries falsely divide the cultures of the region. Specific attention throughout the course will be placed upon a nuanced understanding of these unique cultures that is non-essentializing and non-imperialist and which does not mythologize the pre-Columbian "other".


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This course examines the people and cultures of the West Indies from an anthropological perspective. We include the Hispanic, Francophone, and Anglophone islands of the Caribbean, as well as adjacent regions of Central and South America.

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#### Abstract

ANT3355: The African Diaspora This course offers an overview of anthropological perspectives on the history and contemporary dynamics of the peoples and cultures of the African Diaspora. We will explore the sociocultural, political, and economic experiences of Africans "outside Africa" within the broader context of a changing global order in which diverse socially negotiated forms of identity are lived and expressed in culturally specific ways. Topics include but are not limited to identity, politics, economics, religion, resistance and revolution, music, art, and dance. Students will be exposed to a wide range of interdisciplinary literature and research designed to foster an appreciation for the diversity of the African Diaspora.


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ANT3414: Principles of Socio Cultural Anthropology

Description: This course introduces students to the study of sociocultural anthropology, one of the subfields of general anthropology. It presents students with the interpretive frameworks and concepts needed to understand the impact of groups and their cultures upon the individual. This course aims to show the ways in which local and global cultural processes intersect and questions understandings of culture as homogeneous and discrete. This course also gives examples of some of the ways in which anthropology can be used to address some of humanity's problems such as racism, sexism, growing economic inequality, development, globalization, displacement, and environmental troubles. Finally, this course aims to present anthropology as a discipline that by embracing a bottom-up perspective contributes to enhance self-understanding and dialogue across culturally and socially diverse publics.

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## ANT3443: The City and Health

The majority of the world's inhabitants will live an in urban environment at the end of this decade. The urban environment contrasts sharply with environments that characterized human evolutionary history. This course considers the consequences of urbanization to human health and quality of life. Using popular and scholarly literature, other media, and guest lectures, students will survey the history of health and disease in relation to place. An emphasis will be placed on the role of the social environment in the production of disease and ask: How do human biology, evolution, history, and culture intersect with the social and physical environments to produce ill health? What characteristics of urbanization and urbanicity impact well-being? How can the social sciences help us explain disease patterns and promote health in an increasingly urban world? Instructional methods include didactic lectures, on-line assignments, reflection papers, and special projects.

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## ANT3514: Principles of Physical Anthropology

Physical Anthropology is the study of humans as biological beings in a cultural setting. This class introduces students to the key concepts, fossil discoveries, and underlying theories that define the field. The course looks at Homo sapiens from our biological variation to our evolutionary development. Topics include: Primates - Evolution and Behavior, Paleoanthropology and Hominid Evidence, Human Osteology and Forensic Anthropology.

[^6]This course uses the concepts and techniques of modern linguistics to analyze and describe the phonology, morphology, syntax, and semantics of human languages. The course focuses on languages other than English. Further issues of language in its social and cultural context are explored in the course Language, Culture, and Society.

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## ANT3740: Introduction to Forensic Sciences

This course is designed to introduce students to those scientific principles, techniques, methods, and technology that are regularly used for human identification. It will cover the latest in scientific data collection and analysis, including DNA fingerprinting, traditional fingerprinting, serology, toxicology, effects of ballistics on bodies, trace evidence, and forensic anthropology. The course will also explore methods of scientific data collection and handling, autopsies and cause-of-death determination, and processes of corpse decomposition. Throughout the course, students will engage in a variety of hands-on projects in which they will apply the scientific techniques and methods that they learn to collect and interpret data. Students will also engage in discourse that will explore how these scientific methodologies articulate with modern American social and cultural ideals, values, and norms. (A material fee of $\$ 7.20$ will be assessed.)

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## ANT3933: Seminar in Anthropology

This course will prepare anthropology students for advanced coursework in the anthropological discipline. The course provides an opportunity for students to reflect upon the nature of anthropological inquiry and the variety of data anthropologists use to aid in that inquiry. Students will develop an understanding of the multitude of methodologies and techniques employed by anthropologists and how anthropological theories and models articulate with research questions. They will also be exposed to examples of applications of anthropology to concrete social problems. The course will help anthropology majors develop these skills and dispositions necessary to succeed as anthropology majors and to begin planning their future careers.

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## ANT4025: The Anthropology of Death

This course explores the anthropological perspective on the cultural, social, and biological nature of human death. Examples of topics that will be cover include: biological definitions of death, decomposition as it relates to funeral practices, global patterns of mortuary rituals and funerary behavior, the cultural construction of death, the effects of death on the social fabric, and cultural and social facets of mourning and bereavement. Throughout the course, students will examine the variety of social and cultural responses to the biological fact of death. In doing so, they will be exposed to the Anthropological literature that seeks to explain or interpret the tremendous variety of human behavior surrounding death and dying. The course will be crosscultural, holistic, and bio-cultural in its outlook and will require students to make conceptual connections between theoretical literature and empirical observations.

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ANT4034: Survey of Anthropological Theories
This class examines the historical development of anthropological theories and methodologies. Students will read and discuss seminal works in sociocultural anthropology.

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This course is structured to provide students with the analytic background necessary to conduct and evaluate quantitative research in anthropology. The major foci for the class will be on: unit construction and data collection protocols; the statistical tools necessary to conduct analysis of data sets; the design of scientifically valid research projects; and the graphical display of quantitative data. Examples from all four fields of anthropology will be presented in order to provide a broad empirical perspective. Additionally, this course will cover issues relating to research design, sampling, and institutional review board policy.

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## ANT4115: Archaeological Research Strategies

This course is an intensive survey of archaeological theory and research methods. It is intended for students interested in anthropology and the practice of archaeology. The course is designed as a seminar emphasizing discussions of weekly readings and student papers. This is not a hands-on lab or fieldwork course, but rather, we focus on the theoretical underpinnings of archaeology and the scientific method.

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## ANT4241: Anthropology of Religion

The cultural conceptions of supernatural reality with an emphasis upon comparative understanding of myth and ritual, the religious experiences and revitalization movements.

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## ANT4274: Political Anthropology

An anthropological examination of politics, including a cross-cultural comparison of political structures, leadership, factions, the politics of ethnicity and political change.

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ANT4331: (FC) People of the Andes
The geography, history, culture and current status of South American Andean peoples.

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## ANT4352: (FC) Peoples and Cultures of Africa

This course is a survey of selected peoples and cultures of Africa. Topics covered include a reflection on cultural images of Africa in the West, basic information about the geography and history of Africa, and the study of specific African socio-cultural institutions such as political economy, religion, kinship, gender, art, and aesthetics.

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## ANT4362: (FC) Peoples and Cultures of Southeast Asia

This course acquaints the student with some of the peoples and cultures of Southeast Asia including foragers, farmers and urban populations. It examines prehistory of the region, the development of complex state societies, and the impact of world religions (Buddhism, Hinduism, and Islam) as well as European colonialism. It examines a number of key contemporary social and economic issues in the region, including deforestation, agrarian transformation, religious revitalization, and the changing status of women.

This class introduces students to the study of urban life and the effects of globalization upon it in a variety of political and historical contexts. It focuses on cities and tumultuous sites in which new political, economic, and social identities are forged. Topics include but are not limited to global cities, transnational labor, diasporic communities, immigration citizenship, and cosmopolitanism. Students will be exposed and familiarize themselves with some of the qualitative research techniques used in urban anthropology such as participant observation, formal and informal interviews, the collection of life histories, and textual analysis.

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## ANT4451: Anthropology of Race

This course will introduce students to the uses and misuses of the concept of â€œraceâ€ from an anthropological perspective. Within the broad four-field approach of contemporary anthropology, â€œraceâ€ is recognized as a social construction with no biological validity. In this course, students will explore the concept as a social mechanism created during the eighteenth century and utilized to rationalize colonialism, resulting in enduring social hierarchies of inequality based on phenotypic differences.

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## ANT4497: Ethnographic Methods

This course is designed to introduce students in cross-cultural qualitative research. Students will gain the skills to critically evaluate and to conduct qualitative research. They will learn how to carry out research on their own and in a group setting. Students will gain an understanding of the relationship between data collection and theory. They will learn how to select an object of anthropological enquiry, which methodology to use, how to address ethical issues in field research, and the basics of research design and data analysis.

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## ANT4620: Language, Culture, and Society

Prerequisites: LIN 3010 or equivalent, or permission of instructor. This course uses the concepts and techniques of contemporary linguistics to analyze, describe, and explain the relationships between language, culture and society.

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ANT4905: Directed Independent Study in Anthropology
Students pursue under faculty supervision a research topic of the student's own choice. May be repeated for 12 credits under different topics.

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ANT4931: Selected Topics in Cultural Anthropology
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Description: Study of relevant issues in cultural anthropology.
Repeatability: May be repeated for 12 credits under different topics.
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Prerequisite: Acceptance to the Honors in the Major in Anthropology and permission of instructor. This course provides Anthropology Honors students with the opportunity to work with one or more Anthropology faculty on an advanced thesis/research project. This course leads to completing an Honors Thesis and fulfills part of the requirements for graduating with the designation of Honors in Anthropology. Course can be repeated once up to a maximum of 6 credit hours.

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## IDS3213: Introduction to the Metropolis

This course will introduce students to the field of urban and metropolitan studies from an interdisciplinary perspective. Students will become familiar with the distinct patterns, processes, and institutions of urban and metropolitan areas as understood by scholars in social sciences, humanities, engineering, education, and health. In addition, by reading central works in the field and interacting with scholars and practitioners working in urban environments, students will examine theoretical and methodological approaches to the metropolis as an object of study and as a site for applied work.

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SOW2031: Introduction to Social Welfare and Social Work

Description: This survey course provides an introduction to our nationâ€ ${ }^{T M} s$ social welfare service system and the social work profession. Students will have an opportunity to learn about the history, values, ethics, methods, and practice settings of social work as well as the role social workers and social welfare policies and programs play in promoting social and economic justice for marginalized and oppressed populations.

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SOW3203: Social Welfare Institutions

Description: This course will examine the historical development and contemporary administration of major American social welfare policies and programs and critically analyze the political, economic, and social impact of those policies and programs on diverse and vulnerable populations. Students will learn how social welfare policy impacts social work practice as well as how social workers engage in policy practice to advance social and economic justice.

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SOW3293: Social Work Communication

Description: This is a skills-based course in which students will have the opportunity to develop and refine communication skills critical to effective and ethical social work practice with diverse client systems. Mastery of course content will provide students with fundamental social work communication skills, including interviewing and listening, corresponding with clients and colleagues, documenting service provision, and writing reports.

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Description: This course examines quantitative and qualitative research methods in an effort to equip students with the knowledge, ethics, and skills to utilize research to inform social work
practice. Mastery of course content will enable students to appraise research literature on social work interventions; to distinguish and critique the utility of research design, sampling, and measurement strategies to evaluate social work services; to protect the dignity and rights of human subjects; and, to evaluate social work practice as well as engage in career-long learning.

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## SOW4101: Human Behavior and the Social Environment I

Description: This course provides an introduction to the social work view of the person in environment as well as an overview of theories of human development across the lifespan. Special emphasis will be given to the interactions between the person and family with systems of all sizes including groups, societies, and economic systems. The basic domains of system interaction (biological, psychological, social, cultural, spiritual, and identity) will be discussed especially as they relate to oppressed and at-risk populations.

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## SOW4102: Human Behavior and the Social Environment II

Description: This course provides students with theoretical knowledge of human behavior and the social environment in preparation for social work practice with diverse client systems at the mezzo and macro levels. Utilizing an empowerment perspective and systems framework, this course examines theories and knowledge of human behavior in the contexts of groups, organizations, and communities.

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## SOW4302: Social Work with Individuals and Families

Prerequisite: SOW 3203
Description: This course provides a foundation in generalist social work knowledge and skills for practice at the micro-level with individuals and families with special emphasis given to oppressed and at-risk populations. Students will develop interpersonal communication, assessment, and service planning skills. Special attention will be paid to the influence of personal values and biases as they relate to ethical social work practice. Strategies for the resolution of ethical dilemmas and culturally competent practice will be introduced and reinforced.

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## SOW4322: Social Work with Organizations and Communities

Prerequisite: SOW 3203
Description: This course provides a foundation in social work knowledge, skills, and values for generalist practice with diverse client systems at the mezzo- and macro-levels in evolving organizational, community, and societal contexts. The role of social workers in advancing human rights and social and economic justice will be examined.

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making skills. Students will be required to engage in self-reflection regarding personal characteristics and biases and to think critically about controversial issues within the contemporary social service delivery system.

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## SOW4510: Practicum Seminar

Prerequisites: SOW 3203, SOW 4302, SOW 4322
Co-requisite: SOW 4511 The Practicum Seminar is a co-requisite of the Community Agency Practicum. The purpose of the seminar is to provide students with a structured environment in which to engage in self-assessment regarding their ability to apply knowledge and skills acquired in the classroom to practice with clients. Students will also examine personal values and biases as they impact interactions with clients and co-workers and apply critical thinking and problem-solving skills to experiences and ethical dilemmas encountered in the practice setting. Tools for networking, navigating a bureaucratic environment, continuing one's professional education, and addressing burnout and compassion fatigue will be examined.

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## SOW4511: Field Education I

Prerequisite: SOW 3203, SOW 3293, SOW 3403, SOW 4XXX, SOW 4101, SOW 4102, and SOW 4322
Co-requisite: SOW 4522
Description: Field experience is integral to the education and professional socialization of social work students, providing a structured and supervised environment in which students may apply theoretical knowledge, test and refine practice skills, and adopt professional behaviors. Field Education I, the first of two consecutive courses, allows students to apply the generalist knowledge and skills acquired through academic courses to social work practice with a specific client system in a social services setting.

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## SOW4512: Field Education II

Prerequisite: SOW 4511
Co-requisite: SOW 4523
Description: Field experience is integral to the education and professional socialization of social work students, providing a structured and supervised environment in which students may apply theoretical knowledge, test and refine practice skills, and adopt professional behaviors. Field Education II, the second of two consecutive courses, allows students to apply the generalist knowledge and skills acquired through academic courses to social work practice with a specific client system in a social services setting.

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Co-requisite: SOW 4511
Description: Throughout the Field Seminar I, students will engage in a process of selfassessment, examining personal values and biases as they impact interactions with clients and co-workers. Students will apply critical thinking and problem solving skills to experiences and ethical dilemmas encountered in the practice setting. The fieldwork experience allows students to apply the generalist knowledge and skills acquired through academic courses to work with diverse client populations to bring about planned change. Tools for addressing burnout and compassion fatigue will be examined. Students will also engage in strategies to mitigate the emotional turmoil that often accompanies beginning social work with micro and mezzo client systems through the use of professional supervision and self-reflection exercises.

## SOW4523: Field Seminar II

## Prerequisite: SOW 4522

Co-requisite: SOW 4512
Description: Throughout the Field Seminar II, students will continue to engage in a process of self-assessment, examining personal values and biases as they impact interactions with clients and co-workers. Students will apply critical thinking and problem solving skills to experiences and ethical dilemmas encountered in the practice setting. The fieldwork experience allows students to apply the generalist knowledge and skills acquired through academic courses to work with diverse client populations to bring about planned change. Special emphasis will be given to the planned change process on a macro level with organizations, communities and social welfare policy.

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## SOW4905: Directed Independent Study - Social Work

Description: This course covers selected topics through independent study under the guidance, direction and examination of a faculty member specializing in the particular area chosen by the student.
Repeatability: May be repeated for a total of 6 credits.
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## SOW4930: Special Topics in Social Welfare

This course will explore topics related to social welfare policy, practice, and research. The course may be repeated for a total of 9 credits under different topics.

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## SYA3300: Logic of Inquiry

Prerequisite: STA 2014 or equivalent. This course is a general introduction to research methods in the social sciences, with emphasis on theory, measurement, research design, data collection and the ethics of research.

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## SYA3310: Qualitative Research Methods

Prerequisite: SYA 3300. This course provides an overview of qualitative methods used in sociological research, including participant observation, interviews and archival research. Students will read exemplary studies, practice methods first hand, and learn how to use qualitative data to support an argument. Throughout the course we will discuss standards of ethical research.

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## SYA3450C: Social Science Data Analysis

Prerequisite: SYA 3300. This course introduces students to quantitative analysis of social scientific data. The course is designed to teach students how to manage, apply, interpret, and compute quantitative data from both primary and secondary sources. The course will involve substantial usage of computerized analytical techniques.

Prerequisite: SYG 2000 or equivalent. This course provides students majoring in sociology an opportunity to systematically explore the discipline.

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## SYA3931: Special Topics in Sociology

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This course will cover variable topics in sociology. The course may be repeated for a total of 15 credits under different topics.

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SYA4010: Sociological Theory
Prerequisite: SYG 2000 or SYG 2013, six hours of upper-division courses with prefixes SYA, SYD, SYG, SYO, SYP A critical study of the development of sociological thought and theory, surveying the major conceptual, theoretical and methodological orientations from Auguste Comte to the present.

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## SYA4654: Evaluation Research/Program Analysis

Prerequisite: SYA 3300 or SOW 3404
Description: Program Evaluations are often required by government and private agencies to assess program processes and outcomes and used in decisions concerning whether programs should be continued, improved, expanded, or eliminated. In this class, we will explore the history of the program evaluation â€œmovementâ€ and the intersection of Evaluation Research and Applied Social Science. The course provides a framework through which the skill set developed in the basic research methods classes can be used to evaluate social programs in a variety of agencies, institutions and settings. Students will become familiar with a number of techniques and theoretical foundations utilized in Evaluation/Applied Sociology and provide hands-on experience working on an Evaluation/Applied Sociology project.

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## SYA4900: Honors Project in Sociology

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Prerequisite: Admission into Honors in the Major in Sociology and permission of the instructor This course is for students who are enrolled in Honors in the Major in Sociology and wish to conduct an independent project in sociology with a faculty mentor. In consultation with their faculty mentor, students will select the content of the project which may take a variety of forms, such as an empirical research project or a community-based project. This course leads to completing an Honors Project and fulfills part of the requirement for graduating with the designation of Honors in Sociology. Course can be repeated once up to a maximum of 6 credit hours.

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## SYA4905: Directed Individual Study

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Prerequisite: Ten hours of sociology. Selected topics for independent study under the guidance, direction and examination of a faculty member specializing in the particular area
chosen by the student. May be repeated a total of 6 credits under different topics.
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## SYA4914: Sociological Research Experience

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Prerequisite: SYA 3300
Description: This course provides advanced undergraduate students the opportunity to work with faculty on an active research project. Students will complete research tasks as assigned by their faculty mentor using skills developed in the sociology curriculum.

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## SYA4930: Special Topics in Sociology

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Exploration of topics of current importance in the field of social problems, social organization or the discipline of sociology. May be initiated by one or more faculty members or by students, in consultation with department chairperson. May be repeated a total of 15 credits under different topics.

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## SYA4935: Senior Seminar

The substantive focus of this seminar is chosen by the instructor, and allows students to collaborate on a specific research project. The course will combine readings and lectures on the chosen topic with an application of relevant sociological theories and methods to produce an original piece of sociological research.

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## SYA4943: Sociology Internship

Prerequisite: SYA 3300
Description: The Sociology internship is designed to give students a supervised preprofessional experience applying sociological knowledge and research methods in a community based organizational setting. Students will have the opportunity to identify projects and assess needs with the on-site supervisor, apply sociological skills of critical analysis and problem solving to organizational challenges, and develop their competencies navigating within a bureaucratic workplace setting. The internship experience will also assist students in identifying career paths, improving career skills, and developing a network of career professionals and mentors.

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## SYD3020: Social Demography

This course analyzes the social aspects of human populations around the world with particular emphasis on the US population. This course deals with census data, fertility, morality, migration and the diversity of the U.S. population.

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## SYD3410: Urban Sociology

This course reveals how sociologists understand urban development and the impact of urbanization on social life. Specific topics include the role of power in urban growth, cities as sites of inequality, the provision of public services, and social control in the urban context. Students will also examine contemporary urban social problems.

## SYD3700: (CD) Racial and Cultural Minorities

An examination of selected racial, ethnic and religious subcultures with respect to past and present patterns of participation, minority-majority relations, maintenance patterns and consequences of prejudice and discrimination for American social life.

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## SYD3800: (CD) Gender and Society

This course is designed to explore the social meanings and political implications of gender in society. It will focus on gender as a taken-for-granted but problematic component of our lives, whether we are female or male. Sociologists now recognize that gender is a "social construction" which is open to re-definition and which has profound social implications. The course will explore topics such as: gender and sex role socialization; gender relationships; cross-cultural gender comparisons; and the effects of "the sex-gender system" on areas such as health, family life, religion, employment, crime, education, politics, and social change.

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## SYD4510: Environment and Society

This course provides a sociological approach to environmental problems. Specifically, the course examines four central issues surrounding environmental problems: (i) the nature, scope, and social consequences of environmental problems; (ii) the human causes of environmental problems; (iii) the human responses to environmental problems; and (iv) an alternative way of thinking about and responding to environmental problems.

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## SYD4601: Community Organization, Change and Development

Prerequisite: SYG 2000 or equivalent. This course critically examines contemporary communities and neighborhoods in urban societies. The course examines community organizations, community power and leadership and alternative approaches designed to create community change and development.

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SYD4702: Race, Place and Inequality

Description: This course will examine place as a dimension of stratification in the United States. Increasingly, the places where we live shape our life chances: they determine the quality of schools we will attend, our access to economic opportunity, and even the cleanliness of the air we breathe. While all U.S. citizens are ostensibly free to choose their place of residence, we find that in actuality access to place is highly segregated both economically and racially, and that these two facets of stratification intertwine. Understanding the processes that lead to place stratification, and the means by which places produce or reproduce different life chances, is central to understanding inequality in the U.S.

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SYG2000: Introduction to Sociology
A study of sociological concepts essential for an understanding of individual, society and social structure. General concepts which integrate the field are considered so that more specialized courses may be understood in context.

## SYG2010: Social Problems

A study of social conditions and situations judged to be undesirable or intolerable by the members of society and to require group action toward constructive form.

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## SYG2013: (CD) Sex, Race and Social Class: A Sociological Examination of Culture and Diversity

This class is designed to introduce students to the Sociological study of the issues of Race, Sex, and Social Class. In this class, we will examine a number of issues facing American society today and how these issues are inter-related. Special emphasis will be placed on discussing how those problems are (or are not) dealt with in our society.

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SYO3110: Sociology of Sexualities

Description: This course explores the relationship between sexualities and society. This includes how sexualities influence our lives, as well as how they are reflected in social norms, attitudes and beliefs. Sexualities will be analyzed as social and historical constructions, differing across time and space. Questions asked will include: Is there one sexuality or are there multiple sexualities? What are the theoretical approaches to sexuality/sexualities? What do sexuality/sexualities have to do with race, gender and social class? How are sexual identities constructed? Finally, the course will examine how the social construction of sexuality/sexualities influences our relationships, whether or not those relationships are primarily sexual.

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## SYO3530: Social Stratification

An analysis of the economic, social, political and cultural dimensions of institutionalized social inequality, consequences for American social life and implications for social movements and social change.

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## SYO4100: Sociology of the Family

A cross-cultural analysis of patterns of courtship, marriage and family life, focusing on the relationship between family and other social institutions and the consequences of these relationships for the individual in a changing industrial social order.

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SYO4200: Sociology of Religion
This course is an introduction to the sociology of religion. Students will read major works by leaders in the field, and examine the ways in which religion interfaces with and affects other social institutions. Particular attention will be given to current controversies in the social scientific study of religion.

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A sociological analysis of political institutions viewed as constituent parts of the structure of society and of social processes, with special attention given to contemporary political movements and ideologies.

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## SYO4370: Sociology of Work

Work is a social phenomenon because it is done with a variety of other people - bosses, coworkers, and subordinates. In addition to examining workplace experiences, this course emphasizes the integration and juxtaposition of work with the rest of people's lives. Students will be introduced to theories and concepts dealing with interactions and relations between and among workers, their employers, and their subordinates.

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## SYO4400: Health, IIIness and Society

A critical analysis of the social context of health, illness, patient care and the practice of medicine. Of special interest are such issues as the distribution of health care, restraints and innovations in public policy pertaining to health and community health programs.

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## SYO4500: Sociology of Organizations

Description: The purpose of this course is to introduce students to the major theoretical approaches used to study and understand work and organizations. The course will be interdisciplinary (incorporating insights from sociology, management, psychology, economics, geography, and political science) and multi-level (examining internal organizational dynamics, the relations and interactions among organizations, and the national institutional environment within which organizations and labor operate).

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## SYP3440: Social Change and International Development

This course analyzes social change in an increasingly interdependent world by comparing more developed countries to less developed countries. The course includes introductory information and perspectives on how social processes, relations and institutions within nations are affected by involvement in the modern world system.

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## SYP3570: Deviance and Social Control

A critical analysis of the political and social process involved in the creation, maintenance, treatment and control of deviant behavior and an examination of selected deviant subcultures.

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## SYP4050: The Sociology of Human Interaction

Focus is on contemporary sociological theories attempting to understand in terms of 1) the institutional context affecting the practical accomplishment of routine tasks and procedures in everyday life; and 2) the production of new institutional forms for example, role definitions, conventions, languages, codes.

## SYP4351: Social Movements and Social Change

An examination of contemporary social movements directed toward the acceptance of new definitions of social roles; the development of alternative priorities, life-styles and conceptions of the individual in relation to social institutions and commitment to basic social change.

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## SYP4411: Sociology of War and Peace

This course will examine war, violence, and peace from sociological and cross-cultural perspective. The course will cover the core perspectives, ideas and analytical studies explaining the nature and causes of conflict and possibilities for its resolution. This course should provide students with a set of tools for analysis of contemporary civil and international conflict. Additionally, students will learn how to use evidence and theory effectively in explanation and argument about these conflicts.

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## SYP4660: Sociology of Culture

This course introduces students to the sociological study of culture, including how culture relates to inequality, social organization, and social structure. Students will become familiar with empirical work on the production and uses of cultural goods, as well as classic and contemporary theoretical accounts of the role of culture in social life.

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## SYP4730: The Sociology of Aging

An inter-cultural examination and analysis of 1) changes-in status, rights, roles, and circumstances which appear to come with age, 2) influences-of age-related biological and physiological factors on the individual's performance and behavior in society, and 3) adjustments-both societal and personal, to the events and processes of aging.

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## Undergraduate Courses

Languages, Literatures, and Cultures
Course Descriptions:

## CHI1120: Beginning Chinese I

Description: This course provides a basic introduction to modern Chinese, building a solid foundation in the structures, vocabulary and pronunciation of the language. Native and heritage speakers of Chinese may take this course only with the permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10
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## CHI1121: Beginning Chinese II

Prerequisite: CHI 1120 Beginning Chinese or equivalent
Description: This course is the continuation of first-year Chinese, emphasizing the acquisition of proficiency at the elementary level. Students master the basic grammar, vocabulary and pronunciation of the language. Native and heritage speakers of Chinese may take this course only with the permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10
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## CHI2200: Intermediate Chinese I

Prerequisite: CHI 1120 Beginning Chinese I and CHI 1121 Beginning Chinese II or equivalent Description: Intermediate Chinese I builds upon the proficiency in the language acquired during the elementary-level sequence, with an emphasis on improved speaking and comprehension skills, and the acquisition of a broader vocabulary. Native and heritage speakers of Chinese may take this course only with the permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10
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## CHI2201: Intermediate Chinese II

Prerequisite: CHI 2200 Intermediate Chinese I
Description: This course is the continuation of Intermediate Chinese, stressing improved proficiency in the language at the intermediate level. In this course, students master more complex grammatical structures in spoken and written Chinese. Native and heritage speakers of Chinese may take this course only with the permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10
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> Prerequisite: CHI 2201
> Description: This course focuses on improving students' ability to express themselves in written Chinese. Students will analyze readings reflecting a variety of modern Chinese rhetorical styles and will be expected to complete numerous formal and informal writing assignments. The course is designed both for non-native students above the intermediate level and native/heritage speakers with little or no previous formal training in reading and writing the Chinese language.

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## CHI3400: Conversation in Chinese

Prerequisite: CHI 2201 or permission of instructor
Description: This course develops conversational skills in Chinese above the intermediate level and includes conversations on directed topics. Native and heritage speakers of Chinese may take this course only with the permission of the chair of Languages, Literatures and Cultures.

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## CHI3930: Special Topics in Chinese

Prerequisite: CHI 2201
Description: Special Topics in Chinese explores cultural, literary or linguistic issues. This course will center on specific topics that may include, but are not limited to, the culture of doing business in China, Chinese literature, the culture of Ancient China, Classical Chinese, Business Chinese and Chinese Film. The language of instruction is Chinese.
Repeatability: This course may be repeated for up to 6 credits.
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## CHT3500: Chinese Culture

Description: This course examines themes pertaining to Chinese culture. Topics may include contemporary popular culture, social and political upheavals, folklore, religion, economic evolution, the governmental systems and education, among other subjects. Topics may vary from one semester to the next. The language of instruction is English.

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FIL4822: French Cinema

Description: This course examines narrative and thematic structure in recent French cinema. This course will also examine several main genres and/or approaches in French cinema, including the heritage genre, La Nouvelle Vague, the "cinema du look", feminist cinema, and colonial/postcolonial themes. The critical readings for each film and the essay assignments will encourage students to develop their own critical and analytical skills in writing about film.

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FIL4933: Topics in Foreign Language Cinema

Description: This course focuses on national cinemas from specific linguistic and geographical regions of the world, for example, North and West Africa, Latin America and Asia. The films will be viewed with English subtitles and the language of instruction in the course is English. The films chosen for the course will reflect cultural, social and historic concerns of the designated region as expressed through cinematic art. The focus of the course may be chronological or thematic.
Repeatability: This course may be repeated for up to 6 credits with different topics.

## FOL1950: Beginning Foreign Language Study Abroad

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Prerequisite: Permission by program director. Students can earn up to six hours of credit through study of foreign language abroad at the beginning level. Prior approval is necessary.

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## FOL2930: Beginning Foreign Language I

Introductory intensive training in such languages as Arabic, Hebrew, Hindi, Japanese, Latin, Mandarin Chinese, Portuguese, and Russian. May require a lab. May be repeated for credit for different languages. Title varies with offering. May not be taken for credit by students with six or more hours of college credit in the target language. (A laboratory fee of $\$ 10$ will be assessed.)

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## FOL2931: Beginning Foreign Language II

Prerequisite: FOL 2930 in the target language or equivalent proficiency. Continued intensive training in selected languages. May require a lab. May be repeated for credit for different languages. Title varies with offering. May not be taken for credit by students with twelve or more hours of college credit in the target language. (A laboratory fee of $\$ 10$ will be assessed.)

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## FOL2952: Intermediate Foreign Language Study Abroad

Students can earn up to six hours of credit through study of foreign language abroad at the intermediate level. Prior approval, awarded on a case-by-case basis, is necessary.

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## FOL3930: Special Topics in Foreign Languages

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Intensive training in such languages as French, Spanish and Portuguese, as resources and interests allow or intermediate and advanced training in French and Spanish. May require a lab. May be repeated up to 12 credits for different languages and levels. Title varies with offering.

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FOL3953: Advanced Foreign Language Study Abroad

Students can earn up to six hours of credit through study of foreign language abroad at the advanced level. Prior approval, awarded on a case-by-case basis, is necessary.

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FOT3510: (FC) Love in the Middle Ages
predecessors in the cultures of Medieval Europe, and reveals to us the roots of many of our modern conceptions of romantic love, sex and marriage. Readings include courtly and Arthurian literature, bawdy tales and other contemporary works, as well as modern historical evaluations. This course satisfies the Foreign Culture requirement. The language of instruction for this course is English.

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## FOT3931: (FC) Studies in Foreign Culture

Study of topics in foreign culture using materials in English. See Department of English and Foreign Languages for individual course description. May be repeated up to 12 credits under different topics.

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## FRE1120: Beginning French I

Description: This course stresses the development of communicative and functional language use at the beginning level. This course gives the student an opportunity to develop a basic ability to read, write, speak and comprehend modern French. Native and heritage speakers of French may take this course only with the permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10
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## FRE1121: Beginning French II

Prerequisite: FRE 1120 or as determined by placement test results
Description: This course is the second half of the beginning French sequence. Students will continue to acquire the basic ability to read, write, speak and comprehend modern French. The beginning sequence prepares students for the intermediate level in French. Native and heritage speakers of French may take this course only with the permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10
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## FRE2240: Intermediate French I

Prerequisite: FRE 1120 and FRE 1121 or as determined by placement test results Description: This course stresses the development of communicative and functional language use at the intermediate level, building upon previously acquired structures through speaking, listening comprehension, reading and writing practice. Native and heritage speakers of French may take this course only with permission of the chair of Languages, Literatures and Cultures. Course Fees: \$10

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## FRE2241: Intermediate French II

Prerequisite: FRE 2240 or as determined by placement test results
Description: As the second half of the sequence for intermediate-level French, this course stresses the development of communicative and functional language use at the intermediate level, building upon previously acquired structures through speaking, listening comprehension, reading and writing practice. Native and heritage speakers of French may take this course only with permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10


#### Abstract

FRE3283: French Listening and Speaking Skills Prerequisite: FRE 2240 Intermediate French I or equivalent Description: This course provides training in the development of aural comprehension of spoken French, with an emphasis on understanding colloquial speech patterns, broadcast journalism and regional accents; students will also receive training in oral production with an emphasis on normative speech and the development of vocabulary. Native and heritage speakers of French may take this course only with permission of the chair of Languages, Literatures and Cultures.


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## FRE3300: French Grammar and Composition

Prerequisite: FRE 2240, FRE 2241
Description: This course provides training in writing correct French through the systematic study of French grammar and the practice of writing skills using a variety of approaches and for a variety of purposes.

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## FRE3350: Readings in French Literature and Culture

Prerequisite: FRE 2240, FRE 2241
Description: This course provides training in reading skills in French while giving students a broad background in French and Francophone literature and culture.

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## FRE3430: French for the Professions

Prerequisite: FRE 3283 or FRE 3300 or permission of the instructor Description: This course provides students with the vocabulary and communicative skills related to different professions such as business and law. The language of instruction is French. Native and heritage speakers of French may take this course only with permission of the chair of Languages, Literatures and Cultures.

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## FRE3502: French and Francophone Cultures

Prerequisite: FRE 3300
Description: This course examines issues pertaining to French and Francophone cultures, including the study of civilization, literature, art, music and film from the French-speaking world. The language of instruction is French.
Repeatability: This course may be repeated for up to six credits with different topics.
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## FRE4402: Advanced French Conversation

Prerequisite: FRE 3283 or permission of instructor
Description: This course promotes the development of advanced skills in conversation and comprehension with emphasis on normative aspects of spoken French and it will include conversation on different topics. Native and heritage speakers of French may take this course only with permission of the chair of Languages, Literatures and Cultures.

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Prerequisite: FRE 3283 or FRE 3350 or FRE 3300 or permission of instructor
Description: This course examines the history, culture, politics, and social issues of contemporary France through selected readings of fictional and non-fictional texts, and engages students in the debates in France concerning immigration, the women's movement, unemployment, socialism and the role of French intellectuals in a changing society. The language of instruction is French.

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## FRE4905: Directed Independent Study in French

Prerequisite: Student must have successfully completed two French courses at the 3000-level prior to requesting an independent study.
Description: This course provides directed individual research and study on a topic related to the language, literatures and cultures of French and Francophone peoples and regions. This course is not open to Minors in French.
Repeatability: This course may be repeated for up to 6 credits under different topics.
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## FRE4930: Special Topics in French Culture v. 3 <br> Prerequisite: FRE 3300 or FRE 3350 or permission of the instructor <br> Description: This course examines topics and issues pertaining to French and Francophone cultures and civilization. The readings and films used in the course will be in French, and the language of instruction is French so that students develop a better understanding of the intrinsic relationship between language and culture. <br> Repeatability: This course may be repeated for up to 6 credits with different topics.

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FRT3550: (FC) Faces of France

Description: This course examines social, political, literary and artistic issues in contemporary France through the study of culture, fiction and film. The language of instruction is English.

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## FRT3800: French Translation Techniques

Prerequisite: FRE 3350 or FRE 3300 or permission of the instructor
Description: This course provides an introduction to the methods of written and oral translation. We practice translating various styles (journalistic, technical, literary, spoken) of language, with emphasis on the difficulties of translating French to English and English to French. The language of instruction is French.

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FRT4561: Women in French Literature and Culture

Description: This course is a study of important women writers and cultural figures drawn from the Middle Ages to the present, such as Marie de France, Christine de Pisan, Louise Labe, Mme de Lafayette, Georges Sand, Colette, Simone de Beauvoir, Marguerite Duras, Helene Cixous, etc. The professor may choose to focus the course on particular periods or centuries. The language of instruction is English.

Prerequisite: FRE 3350 or FRE 3300 or permission of the instructor Description: This course provides a survey of major French texts and authors from the medieval period to the end of the eighteenth century.

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## FRW3101: Survey of French Literature: The Modern Period

Prerequisite: FRE 3350 or FRE 3300 or permission of the instructor
Description: This course will provide a survey of representative works from the nineteenth and twentieth centuries, with emphasis on the evolution of literature and its relation to society throughout this period. The language of instruction is French.

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## FRW4930: Special Topics in French Literature

Prerequisite: FRE 3350 or FRE 3300 or permission of the instructor
Description: This course constitutes a focused study of an author, period, movement or theme.

Repeatability: This course may be repeated up to 6 credits with different topics.
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## GER1120: Beginning German I

Description: This course stresses the development of communicative and functional language use at the beginning level. Students will learn to read, speak, comprehend and write modern German at the beginning level. Native speakers of German may take this course only with the permission of the Language Coordinator.
Course Fees: \$10
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## GER1121: Beginning German II

Prerequisite: GER 1120 or equivalent
Description: This course is the second half of the beginning sequence. Students will continue to acquire the basic skills in reading, speaking and writing modern German. The beginning sequence prepares students for study at the intermediate level. Native speakers of German may take this course only with the permission of the Language Coordinator.
Course Fees: \$10
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## GER2200: Intermediate German I

Prerequisite: GER 1120 and GER 1121
Description: This course stresses the development of communicative and functional language use at the intermediate level. Students will gain practice in speaking, reading and writing modern German. Native speakers of German may take this course only with the permission of the Language Coordinator.
Course Fees: \$10
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Prerequisite: GER 2200
Description: As the second half of Intermediate German, this course continues the development of communicative and functional language use at the intermediate level. Students will gain practice in speaking, reading and writing modern German. Native speakers of German may take this course only with the permission of the Language Coordinator. Course Fees: \$10

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## JPN1120: Beginning Japanese I

This course introduces students to the basics of Japanese grammar, writing, culture and conversation. (A laboratory fee of $\$ 10$ will be assessed.)

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## JPN1121: Beginning Japanese II

Prerequisite: JPN 1120 or permission of instructor. This course introduces students to the basics of Japanese grammar, writing, culture and conversation begun in JPN 1120. (A laboratory fee of $\$ 10$ will be assessed.)

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LAS3020: (FC) Peoples and Cultures of the Caribbean

Description: This course examines the history, peoples and cultures of the Caribbean. The language of instruction is English.

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## LAS3031: (FC) Peoples and Cultures of the Southern Cone

This course is a presentation of the history and culture of the people living in Argentina, Chile, Uruguay and Paraguay. The language of instruction is English.

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LAS3280: Issues in Modern Brazilian Culture

Description: This course examines issues in modern Brazilian culture, such as incarceration, land reform, violence and race. The focus of this course lies on how Brazilians themselves have attempted to approach these issues through different cultural representations. Texts for the course come from different media, such as literature, film, music and photography. The language of instruction is English.

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## LAS3310: Peoples and Cultures of Mexico

Description: This course examines the history, peoples and cultures of Mexico. The language of instruction is English.

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Description: This course examines topics related to Latin American cultures (including Brazil), such as social revolutions, dictatorships, mestizaje/hybridity, or indigenismo. Emphasis may be given to different regions, such as Central America or the Southern Cone, or to specific countries. Topics may vary from one semester to the next. Contact the Department of Languages, Literatures and Cultures for individual course descriptions. The language of instruction is English.

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## LAT1120: Beginning Latin I

Description: In this course, students will learn the basics of classical Latin, including grammar, vocabulary and syntax. This course also introduces students to reading and translating Latin.

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## LAT1121: Beginning Latin II

## Prerequisite: LAT 1120 or equivalent

Description: This course builds upon the material mastered in Beginning Latin I, with an emphasis on advanced structures in the language. In this course, students will practice additional verb tenses and more complex syntax. Readings and texts selected for translation will include major Latin authors.

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## POR1120: Beginning Portuguese I

Description: This course provides an elementary-level study of the language, with an emphasis on speaking, understanding, writing and reading Portuguese. Students also learn about the cultures of Portuguese-speaking countries. Native speakers of Portuguese may take this course only with the permission of the Language Coordinator.
Course Fees: \$10
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## POR1121: Beginning Portuguese II

Prerequisite: POR 1120 or equivalent
Description: This course is the continuation of the elementary-level study of the language, stressing speaking, understanding, writing and reading Portuguese. Students learn about the cultures of Portuguese-speaking countries. Native speakers of Portuguese may take this course only with the permission of the Language Coordinator.
Course Fees: \$10
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## POR2200: Intermediate Portuguese I

Prerequisite: POR 1120, POR 1121 or equivalent
Description: Intermediate Portuguese I builds upon the foundation of first-year Portuguese, with an emphasis on perfecting speaking, writing and comprehension skills. In second-year Portuguese, students master additional verb tenses and advanced grammatical structures.
Native speakers of Portuguese may take this course only with the permission of the Language Coordinator.
Course Fees: \$10

POR2201: Intermediate Portuguese II
Prerequisite: POR 2200 or equivalent
Description: This course is a continuation of intermediate-level Portuguese, with further emphasis on perfecting speaking, writing and comprehension skills. At this level, students are required to master most verb tenses and additional advanced grammatical structures. Native speakers of Portuguese may take this course only with the permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10
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## RUS1120: Beginning Russian I

Description: This course provides an elementary-level study of the Russian language, with an emphasis on acquiring a basic proficiency in speaking, understanding, writing and reading Russian. Native speakers of Russian may take this course only with the permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10
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## RUS1121: Beginning Russian II

Prerequisite: RUS 1120 or equivalent
Description: This course is a continuation of the first-year sequence in Russian, with an emphasis on improving the student's proficiency in speaking, understanding, writing and reading. In this course, students will also study the cultures of Russia. Native speakers of Russian may take this course only with the permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10

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## RUS2200: Intermediate Russian I

Prerequisite: RUS 1120, RUS 1121 or equivalent
Description: Building upon the proficiency mastered in first-year Russian, this course develops speaking, writing, understanding and reading skills in Russian at the intermediate level. In this course, students demonstrate proficiency in all major verb tenses and in the use of advanced grammatical structures. Native speakers of Russian may take this course only with the permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10
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RUS2201: Intermediate Russian II
Prerequisite: RUS 2200 or equivalent
Description: This course is the continuation of second-year Russian, with an emphasis on perfecting speaking, writing, understanding and reading skills in the language at the intermediate level. Students demonstrate proficiency in all major verb tenses and in the use of advanced grammatical structures. In addition, students will read excerpts of Russian literature. Native speakers of Russian may take this course only with the permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10

Description: This course will give the student the opportunity to develop the foundations of an ability to read, write and speak modern Spanish. Native and heritage speakers of Spanish may take this course only with the permission of the chair of Languages, Literatures and Cultures. Course Fees: \$10

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## SPN1121: Beginning Spanish II

Prerequisite: SPN 1120 or as determined by placement test results.
Description: This course prepares the student to read, write and speak modern Spanish and prepares the student for more advanced study. Native and heritage speakers of Spanish may take this course only with the permission of the chair of Languages, Literatures and Cultures. Course Fees: \$10

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## SPN1134: Accelerated Beginning Spanish

Prerequisite: Two years of high school Spanish, or one year of college Spanish, or as determined by placement test results.
Description: This course provides an accelerated introduction to Spanish for those who have had some Spanish but who are not ready for study at the Intermediate level. The course emphasizes practical listening, speaking, reading and writing skills. The material covered is equivalent to the content of SPN 1120-1121. Native and heritage speakers of Spanish may take this course only with the permission of the chair of Languages, Literatures and Cultures. Course Fees: \$10

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## SPN2030: Medical Spanish

Description: This course focuses on the development of vocabulary and conversational skills related to health care delivery.

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## SPN2200: Intermediate Spanish I

Prerequisite: SPN 1121 or SPN 1134 or as determined by placement test results.
Description: This course stresses the development of communicative and functional language use at the intermediate level, building upon previously acquired structures through speaking, listening comprehension, reading and writing practice. Native and heritage speakers of Spanish may take this course only with the permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10
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## SPN2201: Intermediate Spanish II

Prerequisite: SPN 2200 or as determined by placement test results.
Description: As the second half of the sequence for intermediate-level Spanish, this course stresses the development of communicative and functional language use at the intermediate
level, building upon previously acquired structures through speaking, listening comprehension, reading and writing practice. Native and heritage speakers of Spanish may take this course only with the permission of the chair of Languages, Literatures and Cultures.
Course Fees: \$10
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## SPN3013: Spanish For Business

Prerequisite: SPN 3300 and SPN 3242 or permission of instructor. This course provides students with the language skills and cultural awareness required to conduct business in Spanish-speaking countries.

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## SPN3242: Spanish Conversation

Prerequisite: SPN 2201 or as determined by placement test results.
Description: This course develops conversational skills in Spanish at the intermediate level. It includes conversation on directed topics. For non-native speakers of Spanish only. Native and heritage speakers are encouraged to enroll in SPN3351 Communication and Communities for Heritage Speakers of Spanish.

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## SPN3300: Composition in Spanish

Prerequisite: SPN 2201 or as determined by placement test results.
Description: This course focuses on improving students' ability to express themselves in writing while advancing their understanding of the complexities of the Spanish language. The course stresses clarity of communication and grammatical precision.

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## SPN3350: Spanish for Speakers of Spanish

Prerequisite: Advanced proficiency as demonstrated through placement test results or by permission of instructor and/or department chair.
Description: This course is designed for native and heritage speakers who have had limited or no formal training in the language. The course places strong emphasis on grammar, as well as reading, writing and vocabulary building. The course features a cultural component which challenges students to reflect upon their own experiences as members of bilingual and bicultural families and communities, and to think critically about their place in the cultural context of the larger Spanish-speaking world.

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## SPN3351: Communication and Communities for Heritage Speakers of Spanish

Prerequisite: Advanced proficiency as demonstrated through placement test results or by permission of the instructor and/or the department chair.
Description: This course emphasizes the development of techniques for conversation and public speaking in Spanish. Students will examine the implications of bilingual and bicultural identities and will study regional variations of Spanish. A variety of materials will be used as starting points for discussions, including articles, short stories, film and music. The course incorporates service learning components, which will allow students the opportunity to conduct projects with local Spanish-speaking communities and organizations.

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This course examines the history, people and cultures of the different regions of Spain. The language of instruction is English.

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## SPN3501: Hispanic Culture

Prerequisite: SPN 3242 and SPN 3300, or SPN 3350, or permission of the instructor or the department chair.
Description: This course examines topics and issues pertaining to Spain, Latin America, and/or U.S. Latinos. The course will be taught entirely in Spanish so that students develop a better understanding of the intrinsic relationship between language and culture.
Repeatability: This course may be repeated once for credit with a change in subject matter.
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## SPN4400: Advanced Spanish Grammar and Discussion

Prerequisite: SPN 3300 or SPN 3350
Description: This course combines the study of Spanish grammar through the analysis of selected readings and activities with a strong emphasis on oral expression at an advanced level, particularly formal speech. The successful student will develop advanced oral skills useful to maintain an effective debate. Students will investigate the subtleties of Spanish grammar at an advanced level.

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## SPN4410: Advanced Spanish Conversation

Prerequisite: SPN 3242 and SPN 3300 or permission of the instructor or the department chair.
Description: This course promotes the development of advanced skills in conversation and comprehension with emphasis on normative aspects of spoken Spanish, and will include conversation on directed topics. Native and heritage speakers of Spanish may take this course only with the permission of the chair of Languages, Literatures and Cultures.

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## SPN4541: Advanced Studies in Hispanic Culture

Prerequisite: SPW 3030 and SPN 3501, or permission from the course instructor or department chair.
Description: This course will explore in depth a variety of issues related specifically to Spain, and/or Latin America, and/or U.S. Latinos. The course will center on specific topics. These may include, but are not limited to, the autonomous regions of Spain; contemporary Latin America and U.S. Latinos; the Southern Cone; revolution in twentieth-century Spanish America; colonial Spanish America; music, film and literature in Latin America; Spain during the Golden Age; and Latin American borderlands.
Repeatability: This course may be repeated for up to 9 credits with a change in subject matter.
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## SPN4905: Directed Independent Study in Spanish

Prerequisite: Students must have successfully completed a minimum of five 3000- or 4000level courses in Spanish prior to requesting an independent study.
Description: This course provides a directed, individual study of a specific literary, linguistic or cultural topic related to the Spanish-speaking world. Departmental approval is required. This

## SPN4940: Internship for Service/Employment in Spanish

Prerequisite: SPN 3242, SPN 3300, SPW 3030 and two additional 3000/4000 level SPN/SPW courses. Minimum GPA: 2.5.
Description: This course constitutes a coordinated internship in a social agency or business that requires students to employ their language skills and cultural awareness to perform a variety of tasks as determined by the internship provider and the academic supervisor. The internship will consist of a minimum number of hours in the field (i.e. 180 hours for experience in a place of employment or 90 hours for monitored volunteer work demanding the application of teaching and translating skills).
Repeatability: Internships may not be repeated for Spanish credit.
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## SPW3030: Interpreting Hispanic Literature

Prerequisite: SPN 3242 and SPN 3300, or permission of the instructor or department chair. Description: This course consists of readings and analysis of brief literary selections to acquaint students with classic and contemporary Spanish and Latin American literary texts and the basic skills and terminology involved in literary criticism.

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## SPW3100: Spanish Literature from the Middle Ages to the 18th Century

Prerequisite: SPW 3030
Description: This course examines the development of Spanish literature from Middle Ages to the eighteenth century through a variety of readings and written and oral activities. Topics to be considered will include, but are not limited to, multiculturalism in Medieval Spain, the age of territorial expansion, the Church in early Spain, the Counter Reformation, the Baroque period, the development of Spanish theater and the Spanish Enlightenment.

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## SPW3101: Spanish Literature from the 19th to the 21st Century

Prerequisite: SPW 3030
Description: This course examines the development of Spanish literature from the nineteenth to the twenty-first century through a variety of readings and written and oral activities. Topics to be considered will include, but are not limited to, Romanticism and the advent of liberalism, realism and the modern novel, the 1898 debacle and Spanish consciousness, the Spanish Civil War, post-Franco Spain, multiculturalism in contemporary Spain and the role of women in modern Spanish society.

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## SPW3130: Spanish American Literature to Modernismo

## Prerequisite: SPW 3030

Description: This course examines the development of Spanish American literature from the fifteenth century to the late nineteenth century through a variety of readings and written and oral activities. The course also encompasses brief consideration of indigenous pre-Colombian literature translated into Spanish. Topics to be considered will include, but are not limited to, indigenous civilizations, the conquest, mestizaje, slavery, independence, nation-building and the evolution of Spanish American aesthetics.

## SPW3131: Spanish American Literature from Modernismo to the Present

Prerequisite: SPW 3030
Description: This course examines the development of Spanish American literature from the late nineteenth century to the present through a variety of readings and written and oral activities. Topics to be considered will include, but are not limited to, indigenous and AfroCaribbean cultures, globalization, borderlands, ideology and revolution, Spanish American poetics, the literature of the so-called "Boom" and the evolution of Spanish American theater.

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## SPW4394: Ibero-American Film

Prerequisite: SPW 3030
Description: This course examines the development of cinema in Latin American and/or Spain. The geographic focus will depend on the instructor's area of specialization. Films will be studied in relation to the sociopolitical context, and emphasis will be placed on close analysis as well as contextual understanding of the material.
Repeatability: This course may be repeated once for a total of 6 credits with a change in subject matter.

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## SPW4930: Advanced Studies in Hispanic Literature

Prerequisite: SPW 3030 and SPN 3501 or permission of the course instructor or department chair.
Description: This course will explore in depth a particular aspect of the literature of the Spanish-speaking world.
Repeatability: This course may be repeated for up to 9 credits with a change in subject matter.

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## Undergraduate Courses

## Building Construction Management

## Course Descriptions:

## BCN1013: Construction \& Culture: A Built Environment

An analysis of the cultural context of construction, emphasizing its centrality in the evolution and expansion of the built environments as expressions of ethical and aesthetic value systems.

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BCN1210C: Construction Materials
Prerequisite: Declared Building Construction majors only
Description: This course offers an introduction to the economic, mechanical, non-mechanical, production, and aesthetic considerations of materials currently used in construction in accordance with the 16 sections of the Construction Specifications Institute (CSI) Masterformat. Students interact with local designers and builders to examine and document the consequences of material specification and selection.
Course Fees: \$35
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## BCN1251: Construction Drawing

This course provides a basic knowledge on how to create and read building construction and architectural drawings. Topics include hand sketching, scaling of drawings, basic construction abbreviations and the extraction of information from construction drawings.

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BCN2280: Surveying: Construction Layout
This course provides the student with an introductory knowledge of construction surveying and construction layout, with field and classroom exercises.

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BCN2405: Introduction to Structures
Prerequisites: PHY 2053 and PHY 2053L. An introductory course in the evaluation of structural behavior as it relates to buildings, the properties of structural materials and the structural behavior of load resisting members.

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An analysis of the cultural context of construction, emphasizing its centrality in the evolution and expansion of the built environments as expressions of ethical and aesthetic value systems.

## BCN3223: Soils and Foundations

Prerequisite: All program prerequisites should be completed prior to taking this course. This course covers construction operations and production processes associated with soils, demolition, foundations, concrete mix design, and earth moving equipment. The course also includes field visits, soil and concrete laboratories.

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## BCN3224: Construction Techniques

Prerequisite: BCN 3223. Study of the vertical construction process to include wooden platform frame construction, cast-in-place and pre-cast concrete construction, and steel erection. Included are interior and exterior finishes, vertical transportation systems, roofing, and other building components.

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## BCN3611C: Construction Cost Estimating

Prerequisites: All program prerequisites should be completed prior to taking this course. Principles and practices in making quantity surveys and labor estimates for construction projects. (Basic Estimating and Residential)

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BCN3762: Building Construction Design and Codes
Prerequisite: All lower level program prerequisites Exploration of building design and construction that conform to federal, state, county, and municipal codes, as well as the authority and responsibility vested in the several agencies. Research of the standard building codes required.

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BCN3782: Introduction to Construction Computing
Prerequisite: CGS 1100 or CGS 1570. This course covers the study of application computer programs employed in the construction industry. Areas of study include the Internet, construction scheduling, construction cost estimating and construction drawing.

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BCN4240: Construction Equipment
Prerequisite: All program prerequisites should be completed prior to taking this course. Students in this course explore heavy construction equipment, construction methods, equipment productivity analysis, equipment selections, and scheduling and administration of heavy civil projects. Topics of the class will include: fundamental concepts of equipment economics, planning for earthwork construction, soil and rock, compaction and Stabilization Equipment, machine equipment power requirements, dozers, scrapers, excavators, trucks and hauling equipment, finishing equipment and cranes.

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Prerequisite: All program prerequisites should be completed prior to taking this course. A
study of the structural systems: beams, columns, rigid frames, arches, trusses, enclosures, and foundation configuration methods used in construction. Included are the advantages and limitations of using each structural system, and each materials selection.

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## BCN4587C: Green Construction and Sustainability

Prerequisites: All program prerequisites must be taken prior to enrolling in this course. This course will examine topics in the field of Green Construction and Sustainable Construction. Topics covered will include the environmental impact of land development, minimization of the negative environmental impacts of construction, and resource utilization. Additional topics to be examined, current building assessment systems, the green building process, ecological design of buildings, green building materials, high performance buildings, building operations and commissioning, ethics in sustainable construction, alternative energy systems, water conservation, and current trends in sustainable construction.

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BCN4591C: Mechanical and Electrical Systems
Prerequisite: All lower level program prerequisites
Description: This course introduces students to the principles and current practices in application of mechanical \& electrical system as described in divisions 14 (conveying equipment), 15 (mechanical systems), and 16 (electrical systems) in the Construction Specifications Institute (CSI).
Course Fees: \$35
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## BCN4612: Advanced Construction Estimating

Prerequisite: BCN 3611C. Advanced techniques for estimating building construction. This course includes direct and indirect cost analysis for complicated construction systems; preparation of bid proposals, specifications, and other related documents. Students will be required to do projects using Excel spreadsheets.

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## BCN4708: Construction Documents and Contracts

Prerequisites:All program prerequisites should be completed prior to taking this course. A study of the legal and protective documentation used in the construction field. These documents include contracts, specifications, insurance and bonds.

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BCN4709: Construction Project Management Capstone
Corequisite: BCN 4931 This course is a senior capstone experience, providing an opportunity for students to control and coordinate construction projects and personnel in a service learning environment. Students will apply their knowledge and skills in strategic bidding and estimating, ethical conduct, project delivery methods, value engineering, design/build, and customer relations and communication.

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Prerequisites: BCN 3782 The application of the critical path method and program evaluation review technique to construction planning, scheduled vs. actual job expenditures, cost

## BCN4730: Construction Safety

Prerequisites: All program prerequisites should be completed prior to taking this course. This course will examine topics in construction safety and human factors in construction. Topics covered will include: current construction safety issues and concerns, safety requirements and procedures, accident causation theories, ethics in safety, workers compensation law, accident reporting, handling stress in the workplace, preventing violence in the workplace, safety programs and policies and promoting and enforcing safety on the jobsite. Additional topics will include: ethics in management, human behavior in the workplace, leadership, management of jobsite personnel, stress management on the jobsite and preventing violence in the workforce and diversity in the workplace. The OSHA course for 10 hour construction training will also be included in this course.

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BCN4751C: Housing and Land Development
Prerequisites:All Program Prerequisites should be completed prior to taking this course. This course in an elective class for students preparing for careers in residential construction. Students learn a broad perspective of the technical knowledge and skills or methods related to residential construction projects. This course prepares students to apply the latest in residential construction technologies.

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## BCN4753: Construction Administration and Economics

Prerequisite: All lower level program prerequisites Nature of construction costs, funding sources and arrangements, capital requirements, bonding, insurance, risk and contingency evaluation, general office operations, and bidding procedure.

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## BCN4759: Construction Finance and Cost Controls

Prerequisite: All program prerequisites should be completed prior to taking this course. Students in this course examine the financial environment of a contracting company. They study the financial impact of decisions made at all levels in the contracting firm including comparative cost analysis. They also analyze the process, practice, and theory of cost controls. Students compare financial and cost control management techniques and the effect of these practices on the firm in relation to profit, profit margin, cash flow, bidding, capital equipment, procurement practices and budgeting.

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## BCN4775: International Construction

Prerequisite: All program prerequisites should be completed prior to taking this course. Students in this course examine the problems that arise in construction when construction firms conduct business across national boundaries. They study major issues and practices in international construction and do an intensive analysis of the process, practice, theory in international construction and compare construction systems used. The students also analyze the effect of international construction on firms and the impact that globalization is having on the construction industry and the environment.

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Prerequisites: All Program Prerequisites should be completed prior to taking this course. This is an elective class for students preparing for careers in industrial construction. Key aspects of industrial construction practices are examined including project management, strategic bidding and estimating, ethical conduct, project delivery methods, value engineering, design/build, customer relations and communications.

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## BCN4870C: Heavy Civil Construction I

Prerequisites: BCN 3223, BCN 3611C This is the first course in a two-course elective track for students preparing for careers in heavy civil construction. Students learn a broad perspective of the technical knowledge and skill or methods related to heavy civil construction projects, including bridges, highways, tunnels, pump stations, dams and underground utilities. This course prepares students to apply the latest heavy civil construction technologies.

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## BCN4871C: Commercial Construction

Prerequisite: BCN 3223, BCN 3611C This course will examine topics in the field of Commercial Construction. Topics covered will include project management of commercial projects, ethical conduct, project delivery methods, value engineering, customer relations, communications, software for commercial construction, time/cost controls, jobsite layout and control, subcontracting and purchasing, changes and claims, progress payments, project closeout processes, computerized project administration, submittals and shop drawings, documentation and record keeping, meetings, negotiations, and dispute resolution.

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## BCN4900: Directed Individual Study

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This course provides BCM students the opportunity to study advanced construction topics, experience an international trip to study other culture's buildings and construction methods or participate in a BCM applied research program.

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BCN4930: Special Topics: Building Construction
This course covers topics of current interests in the construction industry. Topics or focus may vary from semester to semester. This course may be repeated up to 12 credits hours with a change in course content.

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## BCN4931: Seminars: Construction Management

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Prerequisite: Permission of instructor Corequisite: BCN 4709 This course offers advance study within an area of specialization designed for the individual who desires a field of concentration. The course focuses on new information and technology in the construction industry. This course may be repeated when the subject matter is different for a maximum of ten credit hours.

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## BCN4944: Construction Management Internship

Prerequisite: BCN 3611C and permission of instructor. Students must apply to internship at least one month prior to the semester they will register for internship. The course is designed as a culminating experience in construction management, this course allows the student an opportunity to practice acquired knowledge under careful observation and in cooperation with an experienced construction manager.

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## BCN4956: Study Abroad in Construction Management

Prerequisite: Permission of the instructor Students will study a country's construction practices, with a particular emphasis on the specific interest of the class. During this course, the student will: understand the culture, geography, history, and politics of the country; travel to the country; study the difference between construction in the U.S. and construction in that country; and learn about the current issues facing that nation and the state of the construction industry. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip work. May be repeated up to 9 credits.

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## Undergraduate Courses

## Electrical Engineering

Course Descriptions:

## EEE3308: Electronic Circuits I

Prerequisite: EEL 3111. This course covers basic electronic design techniques. Topics include operational amplifiers, diodes and transistors characteristics and applications, and analysis and design of amplifiers. Computer-aided tools in the design and analysis of electronic circuits are used.

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EEE4309C: Electronic Circuits II
Prerequisite: EEL 3303L, EEL 3304, and EEL 3112
Description: This course covers advanced electronic design techniques. Topics include frequency response of amplifiers, output stages and power amplifiers, differential and multistage amplifiers, feedback and stability, oscillator design and analysis, and applications of linear and digital integrated circuits. A laboratory is included.
Course Fees: \$75
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## EEE4314L: Advanced Electronics

## Prerequisite: EEE 4309C

Description: This is a lab-oriented course that covers the applications of electronic devices and linear-digital integrated circuits in the design and verification of electronic instrumentation, systems and design projects. An advanced electronic design project is required.
Course Fees: \$75
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## EEE4396: Solid State Electronic Devices

Prerequisite: EEL 3304. Introduction to the principles of semiconductor electron device operation.

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## EEL3003: Introduction to Electrical Engineering

Prerequisites: PHY 2049, PHY 2049L, MAP 2302. This course will introduce the concepts of electronics and applications to non-electrical engineering majors. Topics to be included are electrical circuit theory, semiconductor devices and circuits, digital electronics, analog electronics, instrumentation systems, and communication systems.

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Co-requisite: MAP 2302 This course covers basic analysis of direct current and alternating current electrical circuits. Topics include impedance, admittance, power, energy, network laws theorems, transient analysis, and steady-state analysis using phasors. The use of simulation to analyze electrical circuits is introduced.

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#### Abstract

EEL3112: Circuit Analysis II 3

Prerequisites: EEL3111 This course provides further AC and DC circuit analysis methods. Topics include power analysis, frequency response, and two-port networks. Fourier analysis, laplace transform, and their applications to circuit analysis are covered and a computer-aided tool is used.

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## EEL3117L: Electrical Circuits Laboratory

Co-requisite: EEL 3112, EEL 3304.
Description: Laboratory experiments emphasizing electrical instrumentation, circuit-theory verification plus network analysis and design.
Course Fees: \$75
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## EEL3135: Signals and Systems

Prerequisites: EEL 3112 This course covers concepts and properties of continuous-time and discrete-time liner time-invariant systems, frequency domain analysis of signals and systems, discrete fourier transform, fast fourier transform (FFT), and their applications. Computer-aided tool is used.

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## EEL3211: Introduction to Electric Machines

Prerequisites: EEL 3111 This course reviews AC power and introduces the analysis of threephase systems and the use of phasor analysis and per-unit analysis as it applies to the study of transformers and AC machines. The analysis, design, and construction of static devices such as simple magnetic circuits and power transformers are covered. The concepts governing rotating machines, such as DC brushless machines, AC induction machines, synchronous machines, and other specialized electric machines will also be covered.

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## EEL3216: Introduction to Power Systems

Prerequisite: EEL 3111 This course includes the study of phasors, three-phase transmission systems, power transformers, transmission lines, power flows, and symmetrical and asymmetrical faults.

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EEL3472: Electromagnetic Fields and Applications
Prerequisite: EEL 3112, MAP 2302 or permission of the instructor. This course covers electric and magnetic fields and forces. Topics covered include electrostatics, magnetostatics, timevarying fields, Maxwell's equations in point and integral form, plane wave propagation, energy and power, and transmission lines.

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EEL3701C: Introduction to Digital Systems
Prerequisite: A programming language.
Description: This course covers basic digital design technology. Topics include number systems, boolean algebra, combinational and sequential circuit design and analysis, hardware description language, and programmable logic devices. Laboratory is included.
Course Fees: \$75
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## EEL4201L: Electrical Energy Conversion Lab

Corequisites: EEL3211 This course is an applied study of electromechanical energy conversion principles, characteristics, and applications of transformers, synchronous and induction machines, DC machines, and special machines in a laboratory environment utilizing common instrumentation.

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## EEL4440: Optical Fiber Communications

Prerequisites: EEL 3472 Electromagnetic fields and applications of permission of instructor This course focuses on fiber optic waveguides. Topics covered in the course include optical sources, detectors, receivers, transmission systems and fiber-based broadband communication networks.

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## EEL4514: Communication Systems

Prerequisites: EEL 3135 This course introduces the theories of analog and digital communication systems. Topic includes modulation and demodulation, multiplexing, spread spectrum, CDMA, communication link and wireless channels analysis. (A material fee of \$60 will be assessed.)

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## EEL4514L: Analog and Digital Communications Laboratory

Prerequisite: EEL 3135
Co-requisite: EEL 4514
Description: This course is the laboratory component for EEL 4514 and consists of the laboratory investigation of communication systems.
Course Fees: \$75
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## EEL4610: State-Space Control Systems

Prerequisites: EEL 4657C. This course covers the design and analysis of control systems using state-space methods. Topics include linear algebra, modeling of physical systems as state-space equations, transformations, stability, controllability and observability, state feedback, observer design, introduction to optimal control, and Riccati equations.

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Prerequisite: EEL 3135 and EEL 4744C
Description: This course covers the design and analysis of control systems using transfer function-based methods. Topics include modeling of physical systems as transfers functions, stability analysis, design specifications, design of controllers by root locus method, frequency response techniques, computer-added analysis and design. Laboratory experiments include position and speed controls using proportional, PI, PD, and PID controllers.
Course Fees: \$75
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## EEL4712C: Digital Design

## Prerequisite: EEL3701C and EEL3304

Description: This course covers the analysis, design, simulation, and implementation of advanced combinational logic circuits and synchronous/asynchronous state machines using modern programmable logic devices. Electrical and timing characteristics of physical devices are covered. CAD-based design and development using hardware description languages are used throughout the course. Laboratory is included.
Course Fees: \$75
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## EEL4713: Digital Computer Architecture

Prerequisite: EEL 3701C. Corequisite: EEL 4713L. Modern computers are becoming highly integrated complex devices. To understand their complex architecture it is not possible to separate the hardware and the software. So much of the computer hardware design depends on what type of applications the use intends to run and especially the operating system. This senior level electrical engineering class is about computer architecture. To provide a focus to the course and some hands-on, in-depth practical experience, we will work closely with the Motorola MC68908GP32 Microcontroller and the MicroC/OS-II real-time kernel.

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## EEL4713L: Digital Computer Architecture Lab

Prerequisite: EEL 3701C
Co-requisite: EEL 4713
Description: This lab is to be taken with EEL 4713. We will systematically working with a professional grade C compiler to generate code for the HC08 microprocessor. We will also develop simple device drivers for our peripheral components. In the lab, each student will construct a modern power supply and build a MicroOsprey08 computer using surface mount components. The MicroOsprey08 takes a daughter board and each student will design his or her own daughter board for interface for their class project. The class project will be a working computer with both hardware and software built by the student.
Course Fees: \$75
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## EEL4744C: Microcontroller Applications

Prerequisite: EEL 3701C
Description: This course covers the elements of microcontroller-based systems, hardware interfacing, software design, and applications. Topics include microcontroller software architecture, instruction set, addressing modes, memory map, gpios, analog-to-digital converters, timers, input capture, output compare, PWM, communication interfaces, and interrupts, code development using assembly languages and C. weekly laboratory experiments.
Course Fees: \$75
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## EEL4750: Introduction to Digital Signal Processing

Prerequisite: EEL 3135. This course is an introduction to the high tech world of digital processing. The topics include discrete time signal and systems, z-transform, DFT, introduction to digital filter design. The class offers theoretical and hands on applied signal processing.

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## EEL4750L: Digital Signal Processing Laboratory

## Prerequisite: EEL 3135.

Co-requisite: EEL 4750.
Description: This course will allow students to apply the theory learned in EEL 4750 in a series of lab assignments. The topics include discrete time signal a systems, z-transforms, DFT, introduction to digital filter design.
Course Fees: \$75
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## EEL4829: Digital Electronic Imaging

Prerequisite: EEL 3135 This course provides an overview electrical engineering aspect of digital image processing techniques and their applications including image acquisition, sampling, color, enhancement, segmentation, compression, coding, and morphology.

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## EEL4905: Individual Study

Prerequisite: Approval of supervising professor and chair. May be repeated up to 12 credits.

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## EEL4914: Senior Capstone Design I

Prerequisite: EGN 2009C, EEL 4744C, and EEE 4309C
Description: This course provides an introduction and study of the engineering design process in industry. Each student will select a design topic and prepare a project proposal including preliminary requirements and design approach. Additional activities include the preparation of a resume and a written assignment on ethics in the job environment. Intellectual property such as copyrights, trademarks, and patents is covered. A faculty advisor for Senior Design II must also be selected by the end of the semester.
Course Fees: \$75
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## EEL4915: Senior Capstone Design II

Prerequisite: EEL 4914.
Description: Students are responsible for completion of their engineering project that was initiated in the Design 1course. Students are responsible for testing relative to original specifications, oral presentation of the project, and project documentation in the form of a project report.
Course Fees: $\$ 100$
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Prerequisite: Permission of instructor. Special courses covering selected topics in electrical engineering. May be repeated up to 12 credits with different course content.

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## EEL4931: Special Topics in Electrical Engineering

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Prerequisite: Permission from instructor or department. Special courses covering selected topics in electrical engineering.

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## EEL4949: Co-op Work Experience

## v. 0-

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Prerequisite: Six hours of Electrical Engineering course work. Acceptance in cooperative education program. Students will participate in practical co-op engineering work under approved supervision. Students may repeat this course for credit, up to a total of three semester hours.

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EGM3420: Engineering Mechanics
Prerequisites: PHY 2048, MAC 2313. Reduction of force systems. Equilibrium of particles and rigid bodies. Principles of work, energy, impulse and momentum. Application to structures and mechanisms.

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EGN3358: Applied Thermal Sciences
Prerequisite: EGN 3311. This course is intended to introduce the student to the fundamental concepts of Thermal Sciences. The basic concepts of Thermodynamic, Fluid Mechanics, and Heat Transfer are explored drawing extensively from real-world examples. This course in not available for credit by Civil or Mechanical Engineering students.

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## Undergraduate Courses

## Civil Engineering

## Course Descriptions:

## CEG3011C: Geotechnical Engineering

Prerequisites: CES 3104C, CWR 3201. This course is an introduction to use of soil as a construction material and analysis techniques for geotechnical applications. Topics include soil formations, mass-volume relationships, soil classification, effective stress, compaction, seepage, soil deformation, state of stress, consolidation, strength, and failure. This course also includes a laboratory component where experiments will be conducted to obtain soil properties for use in geotechnical engineering design. Experiments include grain size distribution and soil classification, Atterberg Limits, compaction, permeability, consolidation, shear strength, and unconfined compressive strength. (A laboratory fee of $\$ 35$ will be assessed.)

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## CEG3111: Foundation Engineering

Prerequisites: CEG 3011C. This course is an introduction to geotechnical foundation engineering. The course emphasizes geotechnical conditions and their effect on the behavior, proportioning, and choice of foundation systems. Topics include site investigation techniques, factors of safety, and geotechnical design and analysis of shallow and deep foundations, rigid and flexible retaining structures, and braced excavations. (A material fee of $\$ 30$ will be assessed.)

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## CEG4302: Applied Engineering Geology

Prerequisite: CEG 3011C
Co-requisite: CEG 3011C This course addresses the applications of geological information to engineering problems. Topics covered include soil and rock mechanics, instrumentation, geological hazards, field testing, coring and classification of geological materials, and probability and statistics as applied to geological materials.

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## CES3100: Analysis of Structures

Prerequisite: CES 3104C. This course will investigate types of loads on structures, truss analysis, shear and bending moment diagrams, influence lines, and design envelopes. In addition, deformation of beams, frames, and trusses is covered. The course also includes an introduction to the analysis of indeterminate structures using consistent deformation, slope deflection, and moment distribution methods. Computer and matrix methods are briefly introduced and discussed.

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Prerequisite: C or better in EGN 3311 (Statics) or equivalent. The concept of stress and strain is covered and includes topics such as normal stress and strain, Hooke's Law, and stress transformation Mohr's Circle. Deformations in axially loaded members are included with some focus on statically indeterminate members. Shafts subjected to torsion and flexural members are covered. Shear and Bending Moment diagrams are emphasized with an introduction to member design. Deflection of beams and columns buckling are introduced. Hands-on Laboratory exercises are also included to investigate stress and strain. (A laboratory fee of $\$ 30$ will be assessed.)

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## CES3605C: Design of Steel Structures

Prerequisite: CES 3100. Concepts of structural design are introduced. The topics cover: philosophies of design and the LRFD method, structural steel systems, structural design loads, design of tension members, design of bolted and welded connection, design of columns, design of beams, and finally design of beam columns. The AISC steel design manual is used in all design problems. Computer aided design is included utilizing commercially available packages. Hands-on laboratory exercises are also included to investigate steel structural components.

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## CES4101: Advanced Structural Systems

Prerequisites: CES 4702 and CES 3605. This course presents advanced topics in structural analysis and design, such as computer analysis and design of building frames for gravity, seismic and wind loadings; bridge loading and design; connections in steel framing; design of steel plate girders; torsion in steel and concrete beams; composite beams; yield line theory; and strut and tie models for failure analysis.

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## CES4102: Matrix Structural Analysis

Prerequisite: CES 3100 This course covers the theory and application of traditional structural analysis for trusses, beams, frames, cables, and arches as either determinate or indeterminate systems. Topics covered will include matrix methods including the direct stiffness method, and flexibility and stiffness method with introduction to computer-based techniques.

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## CES4321: Introduction to Bridge Engineering

Prerequisite: CES 4702C This course covers the design of structural systems for bridges using the AASHTO LRFD design methodology. Topics covered will include analysis by influence lines, design of slab, beam-slab, and existing bridges.

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## CES4702C: Design of Reinforced Concrete

Prerequisite: CES 3100. Structural concrete and its behavior are introduced. Current ACI Code provisions for structural design are utilized in learning how to design reinforced concrete structural members. The failure theories for beams, columns, slabs are introduced. Topics include the design of rectangular and $T$ beams, design of columns and utilizing interaction diagrams, design of one-way slabs, and finally the design of spread and combined footings. Hands-on laboratory exercises are also included to investigate concrete structural components. (A laboratory fee of $\$ 30$ will be assessed.)


#### Abstract

CES4711: Prestressed Concrete Prerequisite: CES 4702C Co-requisite: CES 4702C This course covers prestressed concrete behavior and design for applications in building and bridge design. Topics covered will include the design of pre and post tensioned girders, floors, roofs, and walls.


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## CGN3322C: Civil Engineering Geomatics

Prerequisite: MAC2312. This course introduces the use of modern surveying instruments and methods commonly employed by civil engineers. Topics covered include: distance measurement, angle measurement, traverse and topographic surveys, route surveying, construction surveying, land surveys, mapping, Global Positioning Systems (GPS), and preparation and submittal of survey documents. In addition, this course exposes students to state of the art computer aided design (CAD) tools used in civil engineering practice. (A laboratory fee of $\$ 30$ will be assessed.)

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## CGN3501C: Civil Engineering Materials

Prerequisite: CHM 2045C. This course offers knowledge, skills and national certification opportunities in the testing of traditional civil engineering materials. Students will learn to conduct standard laboratory tests, analyze the results, and properly report the data as required for civil engineering design and quality assurance/quality control purposes. (A laboratory fee of $\$ 30$ will be assessed.)

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## CGN3930: Special Topics in Civil Engineering

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Prerequisites: Junior standing and consent of instructor or department. This course provides topics of special interest in Civil Engineering, which may vary each time the course is offered. Course content may be engineering science, engineering design, or a combination of both. The special interest topic, when offered, will be stated in the schedule booklet. The course is variable in credit hours and may be repeated once with different content.

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## CGN4803: Senior Capstone Design I

Prerequisite: Senior standing and consent of the instructor; CES 3605; TTE 4004; CWR 4202; EGN 2009C.
Description: This course is the first part of a two-semester design project. Students are introduced to professional practice issues such as: procurement of work; bidding versus quality based selection processes; how design and construction professionals interact to construct a project; the importance of professional licensure and continuing education; and other professional practice issues. Students work in multi-disciplinary teams to develop a proposal and preliminary design for a selected Civil Engineering project.

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class. Students are to proceed with the design project according to the plan developed in CGN 4803. Under faculty supervision, the students perform the actual design work for the project previously selected. Finally, students submit a final report and give a formal oral presentation to discuss the final design. (A material fee of $\$ 30$ will be assessed.)

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## CGN4905: Directed Individual Study

Prerequisites: Approval by sponsoring professor and director of engineering. Students will participate in study of topics agreed to by a sponsoring and supervising professor. This course is variable in credit hours and may be repeated once with different content.

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## CGN4931: Special Topics in Civil Engineering

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Prerequisites: Senior standing and consent of instructor or department. This course provides topics of special interest in Civil Engineering, which may vary each time the course is offered. Course content may be engineering science, engineering design, or a combination of both. The special interest topic, when offered, will be stated in the schedule booklet. The course is variable in credit hours and may be repeated once with different content. (A material fee of $\$ 30$ will be assessed.)

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CGN4949: Co-op Work Experience
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Prerequisite: Acceptance in Cooperative Education Program and 6 hours of completed CGN courses. Students will participate in a practical co-op engineering work under approved industrial supervision. Students may repeat this course for credit, up to a total of three semester hours.

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## CWR3201: Fluid Mechanics

Prerequisite: EGN 3311. Corequisite: EGN 3321. The purpose of this course is to introduce the fundamental principles of fluid mechanics, including fluid statics, fluid kinematics, and the dynamic equations for fluid mass, momentum and energy conservation. Also, the fundamental principles of fluid mechanics are used to solve basic engineering problems involving incompressible flow.

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## CWR4001: Introduction to Coastal and Port Engineering

Prerequisite: PHY 2048, PHY 2049, and MAC 2312
Description: This course provides an introduction to the coastal environment with a focus on engineering and science applications. The course also introduces concepts important to port operations and design as related to the waterside engineering aspects. Designed for upperlevel undergraduate students, the course introduces important topics and physical processes necessary to understand and work in the coastal environment. The course provides the foundation for more advanced study of water wave mechanics, coastal processes, and coastal and port engineering design.

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Prerequisite: PHY 2048, PHY 2049, and MAC 2312
Description: The lectures feature background theory, discussion and a detailed examination of important coastal processes with engineering applications. Course subjects cover a wide range of topics to provide a breadth of knowledge for subjects related to coastal study. Topics include coastal zone features, water wave mechanics, field measurement techniques, longshore and cross-shore sediment transport analysis, beach nourishment theory, coastal structures, tidal inlets, and coastal management. The course presents material at a level necessary to understand many intermediate and advanced processes and relationships.

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## CWR4202C: Hydraulic Engineering

Prerequisite: CWR3201. The topics contained in this course include the fundamental equations for pipe and open conduit flow, development of design oriented formulas for pipes and open learning channels, the hydrologic cycle, precipitation and stream flow measurement and analysis, runoff prediction, hydrographs, and flood routing. Hydraulic laboratory component included. (A laboratory fee of $\$ 30$ will be assessed.)

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## CWR4600: Major River Systems of Florida

Prerequisite: PHY 2048, PHY 2049 and MAC 2312
Description: Due to the unique geology and ecology of Florida, its river systems are vitally important to the co-existence of man and nature. The course will provide an in-depth look at current and future issues of the major river systems (St.Johns, Kissimmee, Apalachicola, etc. in Florida). It will focus on the issues that a civil engineer will come in contact within his/her career. This course will integrate the student's perspective of the human impact on the river, the legal framework and issues of water quality management, and the biotic perspective of a healthy ecosystem. Reading material will include online state river reports. A significant research paper will be required of students which examines one aspect of a major river system whether it be human induced changes, physical or biotic processes, the impact of some physiographic feature, or an aspect ecosystem.

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EGN3038: Leadership for Engineers
This course uses a weekly seminar format with guest speakers and student presentations to understand the importance of leadership in the engineering profession and to develop leadership skills. A project is required.

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## EGN3125: Surveying and Computer Aided Design

This course will provide students with hands-on experience in computer-aided design concepts and practices and basic and advanced surveying techniques.

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This course covers the application of computer aided drafting (CAD) software, drafting format, and drafting techniques focused on Civil Engineering applications.

Prerequisites: PHY 2048, PHY 2048L and MAC 2312. This course covers the analysis of two and three dimensional force systems by vector algebra. Application of the principle of equilibrium to particles, rigid bodies, and simple structures are included. Friction, distributed forces, center of gravity, centoids, and moment of inertia are introduced. U.S. engineering and metric systems of units and applications are used.

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## EGN3613: Economics for Engineers

The course provides an introduction to the basic tools necessary for business decision-making and project evaluation. The course covers the determination of prices and costs, the time value of money, cash flow and present worth analysis, rates of return, the effects of inflation, depreciation and tax effects, breakeven and benefit-cost analysis.

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## EGN4032: Engineering and Professional Issues

Prerequisite: Acceptance in an engineering program in the School of Engineering at UNF. The study of issues of importance to the engineering profession, the relationship of engineers to their profession and their industrial and business bases, and the importance of the results of their designs and analyses on their using communities will be covered in this course.

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## ENV3001C: Environmental Engineering

Prerequisites: CHM2045C, PHY2049, PHY2049L. This course covers the fundamentals of environmental engineering, including the physical, chemical and biological processes used in pollution control with an emphasis on water and wastewater treatment. A limited laboratory component provides an overview of the experimental methods and processes used in environmental engineering.

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## ENV4012: Advanced Environmental Engineering

Prerequisites: ENV 3001C and CWR 4202C. This course provides in-depth coverage of the physical, chemical, and biological processes used for pollution control. Specific topics included in this course are as follows: unit analysis of physical, chemical, and biological processes, environmental hydraulics, water quality modeling, and water and waste treatment theory, analysis, and design.

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## TTE4004: Transportation Engineering

Prerequisite: CGN 3322C; STA 3032; EGN 3613. This course offers an introduction to transportation engineering, including the characteristics of transportation modes, interaction between modes, facility design consideration, planning of transportation systems, economics, public policy, implementation and management.

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Prerequisite: TTE 4004. This course provides comprehensive coverage of the principles of traffic engineering with an emphasis on road and intersection analysis and design, including
the following topics: volume and speed studies, traffic control devices, signal design and timing, and traffic simulation tools.

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## Undergraduate Courses

## Mechanical Engineering

## Course Descriptions:

## EGN1001C: Introduction to Engineering I

Prerequisite: MAC 1147 or equivalent
Description: An introduction to the broad field of engineering from the process of invention and design to the societal impact of the engineering profession. Students will explore the fields of modern engineering through practical examples and hands on activities. Design activities will incorporate aspects from Civil, Electrical, and Mechanical Engineering.
Course Fees: \$40
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## EGN2009C: Introduction to Engineering II

Prerequisite: EGN 1001C
Description: This course is a continuation of Introduction to Engineering I. The purpose of this course is to introduce potential engineering students to the tools that will be utilized to solve problems in civil, electrical, and mechanical engineering. The course will introduce the student to the application of mathematical principles to the solution of engineering problems. Computer methods will be introduced to solve mathematical systems. One lecture hour, two hours of lab each week.
Course Fees: \$40
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## EGN3203: Modern Computational Methods

Prerequisite: MAP 2302. This course covers computational methods commonly used in engineering practice. An engineering analysis software package is used extensively in the study of algorithms and engineering numerical analysis.

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EGN3321: Dynamics
Prerequisites: EGN 3311, MAC 2313, PHY 2049, and PHY 2049L. The kinematics of particles is introduced with topics such as rectilinear motion and curvilinear motion. The kinetics of particles is covered utilizing Newton's Second Law, energy and impulse-momentum principles. Kinematics of rigid bodies is included and covers translational and rotational motions. Kinetics of rigid bodies is also covered for translation, rotation and general plane motion.

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EGN3331: Strength of Materials
Prerequisite: EGN 3311
Description: In this course the concept of stress and strain is covered and includes topics such as normal stress and strain, shear stress and strain, Hooke's Law, and stress transformation. Deformations in axially loaded members are included with some focus on statically
indeterminate members. Torsionally loaded members and flexural members are covered.
Shear and bending moment diagrams are emphasized with an introduction to member design. Deflection of beams and columns bucklings is introduced.

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## EGN4042: Problem Solving and Continuous Improvement Methods for Engineers

Prerequisite: EGN 2009C and STA 3032
Description: Application of problem identification, solution development and continuous improvement methods to real-life problems from community partners by using engineering tools and concepts is presented. Projects entail root cause analysis, developing multiple solutions and selection as well as implementation of the best solution for the needs of the client.

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## EMA3010: Introduction to Materials Science and Engineering

Prerequisite: CHM 2045 and CHM 2045L
Description: This course covers the fundamentals of materials science. The course has lecture and hands-on laboratory components. Topics covered include the structure of metals, ceramics and polymers, mechanical behaviors or materials and phase transformation in metals.

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## EMA4502: Materials Characterization

Prerequisite: EMA 3010
Description: The analyses of crystal structures, microstructures and chemical composition are presented. Students will learn the physical principles behind optical microscopy, electron and $x$-ray diffraction and electron microscopy for the purpose of indentifying materials and assessing their properties.

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## EMA4704: Materials Selection

Prerequisite: EMA 3010
Description: This course exposes students to an algorithm for proper materials selection that will guide them in design activities. The course focuses on the assessment of the demands of specific design criteria including, but not limited to mechanical properties, corrosion, interaction with the service environment as well as economic and social factors.

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## EML3015: Fluids I

Prerequisite: EGN 3311. Corequisite: EGN 3321. The purpose of the course is to introduce the fundamental principles of fluid mechanics, including fluid statics, fluid kinematics, and the dynamic equations for fluid mass, momentum and energy conservation. Also, the fundamental principles of fluid mechanics are used to solve basic engineering problems involving incompressible flow.

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the study of energy, its forms and transformations. Topics covered will include properties of pure substances, work and heat, the first law of thermodynamics, the second law of thermodynamics, and energy and power systems using thermodynamics principles.

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## EML3101: Thermodynamics II

Prerequisite: EML 3100. This course is a continuation of EML3100, Thermodynamics I. In this course, students will consider concepts associated with power and refrigeration systems, gas mixtures, chemical reactions and equilibrium, irreversibility and availability, and an introduction to compressibility.

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## EML3535C: Modern Engineering CAD

Prerequisites: Acceptance into an engineering program or permission of the instructor. This course covers fundamentals of engineering graphics including drafting, dimensioning, tolerancing, and exposure to computer aided design software. (A laboratory fee of $\$ 40$ will be assessed.)

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## EML3553: Project Engineering I

Prerequisites: Admissions to Mechanical Engineering program. This course provides an overview of project organization, team formations and operations involving matrix teams and an overview of project life cycle. Project planning, scheduling and control are also discussed as well as economic decisions involving projects such as capital budgeting, risk analysis and replacement decisions. Students will make oral and written presentations.

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## EML4004L: Energy Systems Laboratory

Prerequisites: EML 3015, EML 4140. The application of mechanical engineering concepts and devices will be performed in this laboratory to include incompressible flows, heat transfer concepts, and thermal systems. (A laboratory fee of $\$ 40$ will be assessed.)

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## EML4016: Fluids II

Prerequisite: EML 3015. This course is the continuation of the material presented in EML 3015 Fluids I. The course takes the next step to describing fluid flows that include near real-world effects.

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## EML4024: Advanced Solid Modeling

This course provides an introduction to real-life solid modeling, including parametric design, geometric constraints and assembly of components. Geometric interference checks of an assembly and part optimization are also covered.

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PREREQ: EML 4312. This course covers the application of advanced simulation techniques
for discrete-time simulation of production systems. Simulation concepts are introduced and methods for data collection and model building are covered. Simulation model output analysis, model verification, and production systems optimization is covered by means of simulation techniques. Current case studies from local industry are featured for simulation projects.

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## EML4126: Transport Phenomena

Prerequisites: EML 3015, EML 4140. This course covers the analysis of heat transfer in fluid systems, forced convection, free convection and phase change. The design and selection of heat exchangers is also covered. The course will also investigate the dynamics and thermodynamics of compressible fluid flow and develop basic theory of turbo-machinery operation and sizing.

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## EML4140: Heat Transfer

Prerequisites: EML 3100 and EML 3015. In this course concepts are presented and studied describing the processes of transferring energy in the form of heat from one body (solid, liquid, or gas) to another body. Heat transfer by conduction, convection, and radiation will be covered, and analysis tools will be employed in the topics presented.

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## EML4301L: Mechanical Systems Laboratory

Prerequisite: EML 4312. This course of study designs and conducts experiments in mechanical systems engineering. Hands-on experience and knowledge of instrumentation hardware and software is integrated into the experiments. Experimental procedures, measurement of physical parameters, data collection, and analysis and interpretation of data are emphasized in experiments involving dynamic mechanical systems with requisite understanding at the senior level of mechanical engineering. (A laboratory fee of $\$ 40$ will be assessed.)

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## EML4304L: Fluid Mechanics Lab

Prerequisites: EML 3100, EML 3015.
Co-requisite: EML 4140. This laboratory course is designed to provide insight and experience into the fundamental principles taught in core thermal science lecture courses. These principles include internal and external viscous flow, pump parameters and sizing, choked flow analysis, and heat exchanger analysis. (A laboratory fee of $\$ 40$ will be assessed.)

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## EML4312: Modeling and Analysis of Dynamic Systems

Prerequisite: EEL 3111, EGN 3203, and EGN 3321.
Description: This course subject is dynamic modeling and analysis of physical systems with emphasis on mechanical systems engineering. The course makes use of systems modeling techniques to model mechanical systems as well as mixed-up energy systems including mechanical translation, mechanical rotation, electrical, and fluid subsystems. Computer analysis tools are included and projects are augmented with laboratory equipment. Introduction to linear systems with feedback control is also presented.
Course Fees: \$40
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Prerequisite: EML 4312. This course covers the theory and design of linear systems control techniques applied to control of machinery. The study of design and implementation of control systems using conventional automatic controllers for linear systems, compensation techniques, and discrete-time control systems for machine control is covered. One or more advanced topics in modern control theory including adaptive control, optimal control, control of nonlinear systems are introduced. (A material fee of $\$ 40$ will be assessed.)

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EML4320C: Integrated Design and Manufacturing
Prerequisite: EML 3535C and EGN 3331.
Description: Students will be introduced to topics in design and manufacturing, basic manufacturing principles, computer aided design, computer aided manufacturing, geometrical dimensioning and tolerancing, and rapid prototyping. In addition to lectures, students will be exposed to lab activities in design and manufacturing.
Course Fees: \$40
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## EML4414: Heat Power Engineering

Prerequisites: EML 3100, EML 3015, and EML 4140. In this course an application of the principles of Thermodynamics and transport phenomena to the analysis of thermal power systems will be presented.

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## EML4501: Machine Design

Prerequisites: EGN 3331. This course covers fundamentals of machines designs, stress, strain, and failure analysis including static and fatigue theories. Design of specific elements such as springs, screws, fasteners and shafts will be covered.

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## EML4507: Finite Element Modeling and Analysis

Prerequisites: EGN 3331, EGN 3203 Students will study stress-strain relationships, design of mechanical components and assemblies, and finite element modeling and analysis. In-house modeling and analysis software will be used. Students will be exposed to theoretical background and real life applications. (A material fee of $\$ 40$ will be assessed.)

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## EML4544: Materials and Handling I

Prerequisites: EML 3100 and EML 3015. The movement of materials necessary to provide for the efficient manufacturing processes is a complex and often vexing problem. This course will use examples of difficult materials handling processes and provide demonstration of the tools neecessary to design systems to handle these materials.

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## EML4551: Senior Capstone Design I

partners, select an advisor, define the problem statement of their design project, and develop a plan of implementation and solution. Finally, students submit a preliminary report and give an oral presentation about the projects.
Course Fees: \$40
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## EML4552: Senior Capstone Design II

Prerequisite: EML 4551.
Description: This course is the second part of a two-semester design project. Students are to proceed with the design project according to the plan developed in EML 4551. Under faculty supervision, the students perform the actual design work for the project previously selected. Finally, students submit a final report and give a formal oral presentation to discuss their final design.
Course Fees: \$100
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## EML4554: Project Engineering II

Prerequisite: EML 3553. This course is the second of a two-course sequence in project engineering. The second course further develops project engineering methodologies including organizational structure, work breakdown structure, resource allocation and management, project costs, risk analysis, scheduling, life-cycle cost modeling and project control.

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## EML4601: HVAC Systems

Prerequisites: EML 3100, EML 3015, and EML 4140. In this course the design and analysis of heating, ventilation, and air conditioning systems in a wide variety of applications will be studied.

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## EML4622: Clean and Renewable Energy Technology

PREREQ: EML 3100; COREQ: EML 3015, EML 4140. This course covers the application of the principles of thermodynamics, transport phenomena, and engineering economics to the analysis of clean and renewable energy technologies such as fuel cells, solar energy, wind energy, and other direct energy conversion techniques.

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## EML4804: Mechatronics

Prerequisite: EML 4312 and EEL 3003.
Description: Computer integration of electro-mechanical systems is studied. Actuators, sensors, interfacing, computer hardware and software components are studied at the component level from which integrated design and control hands-on projects in mechatronics systems are implemented.
Course Fees: \$75
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EML4806: Robotics Engineering I
Prerequisite: EML 3321. Students will study robot manipulator kinematics, dynamics, and control. Topics are augmented using computer graphics tools and laboratory experiments with robot manipulators. (A material fee of $\$ 40$ will be assessed.)

## EML4905: Directed Individual Study

v. 1-

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Prerequisites: Approval by sponsoring professor and director of engineering. In this course students will participate in study of topics agreed to by a sponsoring and supervising professor. This course is variable in credit hours and may be repeated once with different content.

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## EML4930: Special Topics in Mechanical Engineering

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Prerequisite: Senior standing and consent of instructor or department. This course provides topics of special interest in Mechanical Engineering, which may vary each time the course is offered. Course content may be engineering science, engineering design, or a combination of both. The special interest topic, when offered, will be stated in the schedule booklet. The course is variable in credit hours and may be repeated once for a maximum of 6 credit hours.

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EML4949: Co-op Work Experience
v. 0 -

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Students will participate in practical co-op engineering work under industrial supervision.
Students may repeat this course for credit, up to a total of three semester hours.
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## Undergraduate Courses

## Computing

## Course Descriptions:

## CAP4020: Multimedia Systems

Prerequisites: Knowledge of object oriented programming principles and experience with languages such as C, C++, Java, and Visual Basic. This course includes the design and development of multimedia applications using multimedia methods and tools such as presentation managers, drawing software, web page development including HTML, authoring software, and supporting environments. The course requires students to develop their own applications as well as integrating different tools.

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## CAP4630: Introduction to Artificial Intelligence

Prerequisite: COP 3530 or COP 3538
Description: Course topics include heuristic techniques for problem solving and decision making, control and search strategies, knowledge representation, logic, and AI languages and tools. Applications such as expert systems, natural language understanding, planning, and computer vision will be included.

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## CAP4660C: Introduction to AI Robotics

Prerequisite: COP 3530 and COP 3404
Description: This course focuses on models and methods for the design and development of robotic devices whose function is to accomplish prescribed tasks with minimal human intervention. Basic robotics elements are addressed: simple mechanics (moving, turning, lifting), sensing the environment (light, contact, proximity), monitoring internal state (time, position, orientation). Autonomous and semi-autonomous robots are designed, constructed, and programmed by combining basic reactive behaviors to support higher levels of cognition. Laboratory exercises are incorporated throughout the course, with a term objective of implementing a working robot to address a performance/survival specification.
Course Fees: \$25
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## CAP4710: Computer Graphics

Prerequisites: MAS 3105, COP 3530. This course covers point-plotting techniques, line drawings, two and three-dimensional transformations, clipping and windowing, data and file structures, interactive techniques, raster systems, perspective, hidden surface removal, shading.

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> Description: This course is a survey of graphics hardware and software with emphasis on applications and user interfacing. Students will utilize business graphics packages and graphics utilities. Topics include design and implementation of user-computer dialogue and graphics interface, as well as exploration of other topics such as image processing, animation and multimedia systems. The student will be required to complete several programming exercises including user-interfacing and 2D (or 3D) graphics projects in a language appropriate for graphics.

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## CAP4770: Data Mining

Prerequisites: COP 4720 or COP 4710. Students will study concepts and techniques of data mining, including Characterized and Comparison, Association Rules Mining, Classification and Prediction, Cluster Analysis, and mining complex types of data. Students will also examine applications and trends in data mining.

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## CAP4774: Data Warehousing

Prerequisites:COP 4720 Database Systems, CIS 4327 Info System Senior Project I This course provides an introduction to data warehousing concepts, requirements gathering, design, and implementation. Students learn about operational database integration, extraction, transformation, and loading of operational data to historical database systems such as operational data store and data warehouse. Students are provided with techniques for the analysis, design, denormalization, implementation, utilization, and documentation in the development of data warehouse systems. Structure query language for database and data warehouse will be studied and used to retrieve data and manipulate the information from the implemented databases. Students are required to complete and present a project to class in the data warehousing area.

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CAP4831: Discrete Systems Modeling and Simulation
Prerequisite: COP 3530 or COP 3538 and STA 4321 or STA 2013
Description: Course topics include model building; queuing models; design of experiments; simulation techniques; utilization of probability density functions; pseudo-random number generation; simulation tools such as GPSS, SIMSCRIPT, and SLAM; interpretation of results; simulation animation; and continuous simulation.

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## CDA3101: Introduction to Computer Hardware Organization

Prerequisite: COP 2551, COP2010 or COP 2220 , COT3100
Description: Course topics include Boolean algebra, switching theory, combinational and sequential circuits, design and minimization techniques, integrated circuits, SSI, MSI, LSI, arithmetic and logic chips, CPU organization, memory organization, and, microprocessors and logic design.
Course Fees: \$30
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Prerequisite: COP 3538 or COP 3855
Description: Human factors in computing deals with the effective interaction of people with computers, including the software and physical elements. Collaborative computing covers the client/server aspects of computer mediated communication.

# CDA4102: Introduction to Computer Architecture <br> Prerequisite: CDA 3101 <br> Co-requisite: CDA 4102L <br> Description: Course topics include computer taxonomy, description languages, conventional computer architecture, microprogramming, instruction sets, I/O techniques, memory, and survey of non-conventional architecture, as well as software interface. 

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## CDA4102L: Introduction to Computer Architecture Laboratory

Prerequisite: CDA 3101
Co-requisite: CDA 4102
Description: This course contains the laboratory exercises to accompany CDA 4102 emphasizing computer architecture, microprocessing, instruction sets, I/O techniques, and memory using software interfaces. 3 hours of laboratory.
Course Fees: \$30
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## CEN4010: Software Engineering

Prerequisite: COP 4710 This course introduces students to fundamental Software Engineering concepts and current practices by covering software development activities associated with the entire software development lifecycle, including ethical and legal issues. Concepts and practices are applied through the collaborative, incremental, and iterative development of a comprehensive software system for a variety of hardware platforms and software clients, and with the support of professional integrated development environments, version control, and project tracking tools. Topics covered include, but are not limited to: software process models; domain modeling; model-driven development; elicitation and documentation of requirements; software architectures; design paradigms and patterns; project management, tracking, and release planning; collaborative development; testing, deployment, and maintenance; ethical and legal issues in Software Engineering.

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## CEN4535C: Development of Gaming and Mobile Applications

Prerequisite: CGS 4307 and COP 3538
Description: This course covers various approaches to the development of computer games and mobile software applications using current development environments, frameworks, and game engines. Examples of mobile approaches include, but are not limited to, "thin" clients and "smart" clients, which interact with servers implemented as enterprise systems or web services. Examples of game development approaches include, but are not limited to, the use of various modelers, Artificial Intelligence techniques, Physics engines, and realistic Computer Graphics renderers. Development environments and platforms include open-source and commercial. Laboratories consist of small programming assignments that are demonstrated through simulators of mobile devices, the deployment to mobile devices, and the development of computer games and their elements.

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Prerequiste:COP 4710 (or) CIS 4327 (or) CGS 4308 This course studies the process of integrating different systems and software applications by examining current and emerging trends, strategies, and techniques for developing systems integration solutions effectively.

Example topics covered include, but are not limited to: systems interoperability issues and challenges, documenting integration requirements using business process models, designing integration solutions reusing patterns, and implementing integration solutions using advanced integration technologies. Students will extend course topics via programming assignments and other assigned activities.

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## CEN4943: Software Development Practicum

Prerequisite: CIS 4251. In this course students apply software development concepts studied in previous courses to cooperatively develop a sufficiently complex software system associated with a realistic application problem. Modern technologies supported by state of the art tools and environments are used.

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## CGS1100: Computer Applications for Business

This course provides an introduction to the fundamentals of personal computing for business majors and other non-computer science majors. Topics include the Windows operating system, word processing, spreadsheets, database, presentation aids, internet, e-mail and related areas. Students may not receive credit for CGS1100 and also for CGS1570.

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CGS1570: Microcomputer Application Software

Description: This course is an introduction to the fundamentals of personal computing and commonly used software applications for a PC. The course includes practical exercises using popular application software packages. Students may not receive credit for CGS1100 and also for CGS1570.

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## CGS2525: Multimedia Applications

Prerequisites: CGS 1100 or a programming language or permission of instructor. Familiarity with Windows or Macintosh environment helpful. Principles, methods, and tools for the design and development of multimedia applications (incorporation of sound, animation, still images, hypertext and video in computing technology); authoring languages; multimedia technology hardware and trends.

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## CGS3559: Introduction to the Internet

Prerequisite: CGS 1100 or CGS 1570 or permission. Introduction to and use of browsers including helpers and plug-ins; html programming, including forms, image maps, and CGI scripts; production of graphics for the WEB; design of home pages.

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## CGS4307: Information Processing: An Organizational Perspective

Prerequisites: CGS 1100 or CGS 1570 or equivalent Students in this course will examine the organizational requirements of information processing in support of administrative decision processes. This involves the examination and use of information processing models in business to transform organizational memory into appropriate designs. Projects involving the
use of information models applied to various application domains are required including the design of relational data models and their implementation using a relational database management system.

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## CGS4308: Information Processing: Requirements Identification \& Specification

Prerequisite: Any public speaking course with the SPC prefix and CGS 4307
Description: Students in this course examine fundamentals for the development of information processing systems. Topics include requirements gathering, feasibility studies, software lifecycle overview, tools and equipment used by designers, and factors associated with successful systems.

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## CIS2930: Special Topics in Computer and Information Sciences

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Course outline will vary depending on topic and number of credit hours. The course will be handled logistically in the same fashion as upper division and graduate-level special topics. May be repeated up to 12 credits.

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## CIS2935: Honors Special Topics in Computer and Information Sciences

Topics are reflective of state-of-the-art computing and selected from among those particularly suited to sophomore-level Honors students.

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## CIS3255: Foundations of Leadership in Technology

Students examine through a series of seminars what makes an effective technical leader and how this might differ from other leadership styles. Students participate in activities to determine their current leadership style and how to develop desired leadership qualities, such as speaking and listening responsibly, creating visions, building community, generating support from others to make change, and strategies for promoting diversity.

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CIS3949: Experiential Studies in CIS

## v. 0

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Prerequisite: Acceptance in cooperative education program and at least 6 credits from core courses completed. Students will participate in supervised work experiences related to computer science. Students may repeat this course for credit, up to a total of six (6) semester hours.

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CIS4100: System Performance and Evaluation
Prerequisite: COP 3538
Description: Topics include tools and techniques used in the evaluation of the performance of computing systems, empirical modeling methods, simulation models, deterministic, and stochastic methods.

Prerequisite: COP 3530 or COP 3538
Description: This course provides a discussion of legal and ethical issues faced by computing professionals. These issues will be framed in terms of what it means to be a computing professional with topics such as responsibilities, ongoing professional development, and social involvement. The course will use the students' prior experiences in software development as a framework by demonstrating lecture concepts through coding examples and technical situations. State and national laws pertaining to computing will be presented. Students will be required to give and justify opinions about given computing situations. Students will also present an opinion to the class about one specific software development issue.

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## CIS4327: Information Systems Senior Project I

Prerequisites: COP 3855, and Prerequisite or Corequisite: COP 4720. First of a two course senior project on systems development with a significant laboratory component. Students will design a prototype information system in the context of the project team environment employing methodologies of a model software system life cycle including specification, analysis, and design.

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## CIS4328: Information Systems Senior Project II

Prerequisite: CIS 4327. The second in a two course senior project with a lecture and significant laboratory components. Students implement a prototype information system in the context of the project team environment employing the methodologies of a model software system life cycle. Capstone course for the Information Systems major.

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## CIS4360: General Computer Security Administration

Prerequisite: COP 3530 or COP 3538
Description: This course provides an introduction and overview of security issues for organizational and institutional computing. Physical software and computing system security will be discussed. Students will be required to perform introductory security analysis, write code to automate some security preparedness tasks, and set up a protection scheme for a simple PC computer.

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## CIS4362: Computer Cryptography

Prerequisite: (COP 3530 or COP 3538) and COT 3100
Description: This course presents an introduction to both classical and modern computer cryptographic protocols, including the RSA algorithm. The relevant algebra and number theory will be covered, as well as material to secure data communication such as coding theory.

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Prerequisites: CIS 4360, COP 4640 This course covers internal and external computer security breaches, how to avoid them, and what actions to take if they are discovered. Students will use and develop software to detect intrusions and protect the computer systems

## CIS4365: Computer Security Policies and Disaster Preparedness

Prerequisites: CIS 4360 This course will cover material about computer security policies. Included with these policies will be specific plans about disaster preparedness in computing. These policies and plans will determine how computer professionals should react to security breaches or destructive acts of nature. Students will study existing policies and will use and develop software for creating and tracking these policies and plans. Computer security policy analysis will be completed by examining user needs and applying best practices in all course projects.

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## CIS4366: Computer Forensics

Prerequisites: CIS 4360, COP 4640 Topics in this course will include computer system data recovery with a particular emphasis on computer evidence handling and computer crime detection. Students will be required to recover data from computers that may have been involved in computer crimes. The students will use and develop computer software tools to reboot suspect computers, detect evidence of computer crime, and preserve that evidence for later use.

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## CIS4510: Expert Systems and Decision Support

Prerequisite: COP 3538
Description: Topics include expert systems construction and application, use of computers in managerial decision making, examination of problem solving and decision models in relation to the business environment, and practical application emphasizing evaluation of available systems and hands-on experience.

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## CIS4593: Gaming and Mobile Apps Capstone I

Prerequisites: CEN 4535C and CNT 4514C This is the first of a sequence of two courses where students will have the opportunity to analyze, implement, and deploy complex software systems as enterprise mobile applications, as computer games, and as an appropriate combination of both.

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## CIS4594: Gaming and Mobile Apps Capstone II

Prerequisites: CIS 4593 This is the second of a sequence of two courses where students will have the opportunity to analyze, implement, and deploy complex software systems as enterprise mobile applications, as computer games, and as an appropriate combination of both.

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CIS4615: Evaluating Software for Security
Prerequisites: CIS 4360 This course is intended to make students aware of how software design decisions affect computer security issues. Common computer security problems will be discussed and students will be asked to write programs demonstrating how to avoid such
problems. Special emphasis will be placed on web applications. Security testing will be discussed and students will be asked to use security testing techniques from class existing software products.

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## CIS4850C: Introduction to Spatial Information Systems

Prerequisite: COP 3538
Description: This course is an introduction to Spatial Information Systems (SIS): the technology of acquiring, managing, analyzing, and displaying information in a spatial context. The course focuses on the unique technical and institutional issues associated with designing and implementing a spatially-enabled Information Technology infrastructure in a public or private enterprise. The participants will get hands-on experience with industry-standard technology including: Geographic Information System (GIS) software, and Global Positioning System (GPS) hardware and software. A series of structured practical exercises provide a pathway to understanding how fundamental spatial theory and principles become relevant in the context of developing practical applications using these technologies.

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## CIS4851C: Advanced Spatial Information Systems

Prerequisite: CIS 4850C Introduction to Spatial Information Systems This course will provide participants with advanced knowledge of spatial principles and professional practices related to enterprise-scale Spatial Information Systems (SIS) and specialized applications that utilize SIS technology. The course will explore how SIS technology can be integrated with other technologies to create new business process models. The laboratory component will provide participants with the advanced technical skills needed to be able to design and implement Spatial Information Systems (SIS) and develop applications that utilize SIS technology. The course will give participants a "hands on" opportunity to explore how SIS technology can be integrated other technologies such as mobile computing, the web, and wireless communications.

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## CIS4861: Spatial Information Systems Administration

Prerequisite: CIS 4851C Advanced Spatial Information Systems,
Co-requisite: CIS 4893 Spatial Information Systems Capstone Project I This course will provide the participants with the advanced knowledge of the professional practices needed to be able to administer enterprise-scale Spatial Information Systems (SIS) and to manage the development and implementation of specialized applications that utilize SIS technology as a component. The course will utilize guest lectures by SIS professionals to present case studies of professional practices. Participants will work in groups to execute a series of peer-reviewed assignments in which each group develops the requirements for development of a SIS application, a competitive professional proposal, and a SIS business plan.

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## CIS4893: Spatial Information Systems Capstone Project I

Prerequisite: CIS 4851C Advanced Spatial Information Systems,
Co-requisite: CIS 4861 Spatial Information Systems Administration This is the first capstone course for the Spatial Information Systems Concentration in the Information Technology program. The course is intended to provide the participants with a structured learning environment for each student (or approved group of students) to develop a senior capstone project proposal. Each student (or group) will make a draft and a final proposal presentation to the class, and submit a final written proposal for approval by the instructor. A senior capstone project proposal must be approved by the instructor prior to enrollment in the Spatial Information Systems Capstone II course.

## CIS4894: Spatial Information Systems Capstone Project II

Prerequisite: CIS 4893 Spatial Information Systems Capstone I or permission of instructor This is the second capstone course for the Spatial Information Systems (SIS) Concentration in the Information Technology program. The course is intended to provide the participants with a structured learning environment for each student (or approved group of students) to complete a senior capstone project, which will be based on the final written proposal approved previously by the instructor in the SIS Capstone I course. A senior capstone project proposal must be approved by the instructor prior to enrollment in the Spatial Information Systems Capstone II course. The student (group) will submit a written final report and present an oral presentation on the project.

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## CIS4900: Directed Independent Study

Description: This course is reserved for senior level computing and information science students, on topics supportive of the student's overall program.
Repeatability: May be repeated with permission.
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## CIS4910: G(W) Honors Research in Computer and Information

## Sciences

Prerequisite: Admission to the Honors in the Major track in Computing and Information Sciences
Description: Students will engage in research leading to the Honors project/thesis under the supervision of a faculty member.

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## CIS4930: Special Topics in Computer and Information Sciences

## CNT4406: Network Security and Management

Prerequisites: CNT 4504 Computer Networks and Distributed Processing In this course, students will examine network security and issues related to managing a secure system. They will explain the use of cryptographic algorithms in such systems. Students will discuss the various forms of attacks, determine ways to detect these attacks, and develop defenses against such attacks.

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In this course, students will study architectures, protocols, and layers in distributed communication networks, and develop client-server applications. Topics include the OSI and TCP/IP models, transmission fundamentals, flow and error control, switching and routing, local and wide-area networks, wireless networks, and client-server models. Students will extend course topics via programming assignments, library assignments, and other requirements.

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## CNT4514C: Wireless Networks and Mobile Computing

Prerequisite: CGS 4307 and COP 3538
Description: Students in this course will study wireless and emerging network technologies. They will examine the effects of mobility on network issues such as architecture security, privacy, file systems, resource discovery, resource management (including energy usage), personal on-line identities, and other areas. Students will acquire hands-on experience with mobile and sensor platforms.

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## CNT4704: Network Design and Planning

Prerequisites: CNT 4504 Computer Networks and Distributed Processing In this course, students will examine computer network goals, models, and designs for both local area and wide area networks, with specific emphasis on internetworking principles. They will evaluate current network technologies and use related best practices and standards in the planning of a network. Through simulation techniques and graph and queuing theory, students will address user needs by assessing the capacity of a network, implementing a related evaluation model, and analyzing its performance.

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## COP2010: Introduction to Visual and Procedural Programming

Prerequisite or
Co-requisite: CGS 1570 This course provides an introduction to the fundamentals of visual programming as well as procedural language structure and capabilities. Students learn about visual programming development, including problem definition, problem solving and algorithms, procedures, controls, arrays, structures, coding, visual interface design, testing, and debugging.

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## COP2120: Introduction to COBOL Programming

Prerequisite: CGS 1570. This course introduces students to the fundamentals of structured programming as well as language structure and capabilities. Students learn about program development, including program definition, pseudocode, flowcharting, coding, testing and debugging. To practice programming skills, students develop COBOL programs to solve "realworld" problems.

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## COP2220: Computer Science I

This course provides an introduction to the programming process. Topics in the course include types, operations, expressions, control flow, I/O, functions, program structure, software design techniques, and problem solving. Course concepts are reinforced with many programming projects throughout the term in the C programming language.

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Prerequisites: Knowledge of programming in another language and knowledge of the current release of Windows. An introductory course in Windows programming using Visual Basic. Topics include event-driven programming techniques and object-oriented concepts. Includes objects, properties, methods, controls, functions, subroutines, arrays and structures, and database access.

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## COP2551: Introduction to Object Oriented Programming

Prerequisite or
Co-requisite: CGS 1570. This course introduces the principles and practices of object oriented (OO) programming. Topics include user interface and problem data classes; class versus instance properties and methods; abstraction; encapsulation; inheritance and multiple inheritance; polymorphism; software design techniques; and problem solving. The concepts are utilized in numerous programming projects.

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## COP2800: JavalJavascript

Introduction to functions, objects, events, and their handlers, interactive forms, frames, documents, windows and cookies using JavaScript; object-oriented programming, including classes, packages and interfaces, exceptions and multitasking in Java.

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COP3331: Object-Oriented Programming in Java/JavaScript
Prerequisites: COP 2220 and CGS 3559 or permission. This course covers the principles and practices of object-oriented (OO) analysis, design, and implementation. Topics include functions, objects, event handlers, interactive forms, arrays, frames, documents, windows and selected topics in JavaScript; classes, packages, interfaces, exceptions, awt, threads, JDBC, and selected topics in Java.

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## COP3404: Introduction to Systems Software

Prerequisite: COP 3503
Description: Course topics include computer structure, machine language, instruction execution, addressing techniques, system and utility programs, and programming techniques, as well as assemblers and macroprocessors.

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## COP3503: Computer Science II

Prerequisite: COP 2220, MAC 2311, and (COT 3100 or EEL 3701C)
Co-requisite: COT 3100 or EEL 3701C
Description: This course serves as a continuation to Computer Science I. Students are shown additional fundamental concepts of problem solving using the object-oriented paradigm and data structures. The topics in this course include classes, interfaces, objects, class types, events, exceptions, control structures, polymorphism, inheritance, linked lists, arrays, stacks, queues, and deques. Students are expected to apply these concepts through the construction of numerous small software systems using both integrated development environments and command-line-driven tools that support editing, testing, and debugging.

## COP3530: Data Structures

Prerequisites: COP3503. Students in this course will study various data structures including binary trees, balanced trees, B-trees, hashing, and heaps. Additional topics include advanced data structures such as splay trees, tree representations, graphs, dynamic memory, and algorithms for sorting and searching. Students are expected to complete programming projects using both procedural and object-oriented languages.

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## COP3538: Data Structures Using OOP

Prerequisite: COP 2551. Prerequisite or Corequisite: COT 3100. As a continuation of OO programming, this course addresses linear and non-linear data structures and techniques. Topics include stacks, queues, trees, indexing techniques, multikey structures, recursion, sorting and searching, hashing, and hash overflow techniques.

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## COP3543: Enterprise Computing

Prerequisite: COP 3538
Description: This course is for those who want to learn about enterprise computing and data management using COBOL. Organizational data representation is discussed regarding internal business data types and external organizational file systems operations. Business enterprise software development will include report generation, multi-user access, string processing, and independent compilation.

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## COP3855: Web Access and System Design

Prerequisite: COP 2010. Prerequisite or co-requisite: COT 3100 Students learn about the influence of E-Business, local and global transaction processing, Internet, web design and development, and Electronic Data Interchange on information systems. After an introduction to the basic concepts of relational database systems, students will practice connectivity to a database to retrieve information. The course includes a design and implementation project involving a database in the Web environment.

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## COP4610: Operating Systems

Prerequisite: STA 4321, COP 3404, and COP 3530
Description: Topics in this course will include process management, memory management, file management, input/output device management, and distributed systems issues

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## COP4620: Construction of Language Translators

Prerequisite: COT 3210, COP 3404, and COP 3530
Description: Topics in this course will include grammars, languages, parsing, precedence, runtime storage organization, semantic routines, error recovery, optimization, intermediate code representations, scope, symbol tables, and compiler-compilers.

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Prerequisite: COP 3538
Description: This course is an introduction to operating systems from an applied point of view. Topics include operating systems configuration, characteristics, and evaluations. Laboratory exercises require students to develop and maintain a multiuser operating system, develop custom system utilities, and evaluate different operating systems configurations.

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## COP4710: Data Modeling

Prerequisite: COT 3210 and COP 3530 and any public speaking course with the SPC prefix Description: This course studies dynamic storage management, compression, data abstraction, data models (hierarchical, network, relational), query languages, concurrency and security, grammatical validation and standards. Schema design methodologies and evaluation including object oriented, semantic, functional, entity-relationship data models, CASE tools, and SQL engine design are also covered.

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## COP4720: Database Systems

Prerequisite: COP 3855 and COP 3538 and any public speaking course with the SPC prefix Description: After an overview of database history, students learn about entity relationships and design processes. Databases are studied with a concentration on relational concepts, Structured Query Language, Data Definition Language, and Data Manipulation Language. Issues of redundancy, normalization, optimization, and concurrency control are examined. The combination of theoretical concepts and practical experiences will provide students with a fundamental knowledge of concepts, principles, and techniques for the analysis, design, implementation, utilization, and documentation involved in the development of database systems.

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## COP4722: Database Systems II

Prerequisite: COP 4720. This course examines logical and physical database design, SQL utilization of query language, and CASE design tool for database management system implementation. Other areas of study include client/server system, multi-user databases, DBMS software interfaces, basic database administrator responsibilities, permissions, locking, releasing, granting, and revoking database objects.

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## COP4723: Database Administration

Prerequisite: COP 4720 Database Systems The Database Administration course is designed for students who have a general background in databases, applications, and database design as well as an interest in learning how a major database can be installed and managed. The course supports standard database administration knowledge, management of the database, client/server environment, monitoring multiple databases, backup and recovery, database memory and space management, partitioning, use of diagnostic tools, and new techniques in database administration.

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Description: In this course, students will use current technologies to develop Internet and webbased applications. The topics to be covered include client and server-side components for the WWW to facilitate client-server communication, web services, and an introduction to Internet security. Students will extend course topics via programming assignments, library assignments and other assigned activities.

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## COT3100: Computational Structures

Prerequisite: MAC 2311 or MAC 2233
Description: This course covers the applications of finite mathematics to CIS. Topics include sets, relations, functions, and number theory; algebraic and combinatorial structures; applications of graphs; Boolean algebra and switching theory, and logic.

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COT3210: Computability and Automata
Prerequisite: COT 3100 and COP 3503
Description: This course covers applications of automata and language theory to CIS. Topics include finite automata and regular expressions; formal languages and syntactic analysis; pushdown automata and Turing machines; and undecidability and computational complexity.

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## COT4111: Computational Structures II

Prerequisite: COT 3100 or MAD 3107
Description: This course covers topics in combinatorial and discrete mathematics, including permutations and combinations, binomial coefficients, recurrence relations, Fibonacci sequences, generating functions, advanced counting techniques such as inclusion exclusion, as well as coding theory, Latin squares, and graph theory. Application to various problems in mathematics and computing will be covered.

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## COT4400: Analysis of Algorithms

Prerequisite: COP 3530
Description: Course topics include analysis of various algorithm design strategies, divide-andconquer, greedy method, backtracking, branch-and-bound, lower bound theory, and NP-hard and NP-complete.

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## COT4461: Computational Biology

Prerequisite: COP 3530 or COP 3538; STA 4321 or STA 2023
Description: This course is an introduction to the study of Algorithmic and Computational problems in molecular biology. Computer science concepts are emphasized, such as the improvement in asymptotic running time with better algorithms, the contrast between heuristics and an algorithm with guarantees, and the difficulty posed by NP-Complete problems. Algorithms for sequence comparison, alignment, and assembly are covered, as well as problems in evolutionary trees and genome rearrangements. Combinatorial methods will be the primary focus.

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Prerequisite: COP 3530 or COP 3538 AND STA 2023 or STA 4321
Description: This course studies computer algorithms and technologies used in music analysis, synthesis, and processing. Topics include, but are not limited to: music signal processing, knowledge representation in digital music, interactive systems for music learning and composing, music emotion recognition and automatic music recommender systems. This course demonstrates how computing and engineering concepts, including programming, algorithms, data structures, algebra, probability/statistics, and signal processing, are applied to digital music research. The class includes weekly readings of contemporary scientific literature in the field of computational music research, project presentations, in-class discussions, and hands-on assignments. Students complete a final project in which they create software systems to improve everyday musical experiences via the use of computer technologies.

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## COT4560: Applied Graph Theory

Prerequisite: COT 3100 and (COP 3530 or COP 3538)
Description: Students in this course will study classical graph theory, its applications in computing and modeling real-word phenomena, and graph algorithms.

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## Undergraduate Courses

## Childhood Education, Literacy and TESOL

Course Descriptions:

## EDE4905: Individual Investigation and Study <br> v. 1-

3

Prerequisite: Consent of department chair. May be repeated up to 24 credits.
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## EDG3324: Methods of Conceptual Teaching

This course is designed to familiarize students with key aspects of conceptual teaching and learning. Concepts from several areas of the elementary curriculum will be used as the contextual backdrop. Other courses in the Elementary Education Program will build on the methodology advocated in this course.

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## EDG4373: Visual Art and Music Methods for Elementary Teachers

Prerequisite: EDF 4444 This integrated-arts course for preservice elementary teachers examines roles of the arts, as well as techniques of visual art and music. Students develop and reflect on their arts skills as well as prepare for instruction in arts with children, through planning for and development of arts curriculum. Students also learn functions of art criticism and arts-based research.

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## EDG4905: Individual Investigation and Study

v. 1-

3
Prerequisite: Consent of division chairperson or specific faculty member. Individual investigation of a selected topic in greater depth under the guidance of a faculty member. May be repeated up to 24 credits.

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$$
\begin{aligned}
& \text { EEC3408: Forming Family, School and Community Partnerships } \\
& \text { Prerequisite: EDF 1005, EDF 2085, EME 2040. This course focuses on ways to form } \\
& \text { partnerships with schools, families and communities. Family systems and their impact on the } \\
& \text { education of children will be discussed and students will identify practices for facilitating family } \\
& \text { involvement. The course discusses state and federal initiatives for serving children and } \\
& \text { families. }
\end{aligned}
$$

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Strategies that recognize the relationships that exist between health status, safety, nutrition, social, and environmental factors. The course identifies current concepts in the fields of health, safety and nutrition and their relationship to the young child. It is designed to teach preservice teachers ways to assist young children to develop good habits and attitudes, and to assume lifelong responsibility for their own well-being.

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## EEC4203: Primary Education II

Strategies for planning the curriculum, utilizing appropriate practices and resources for developing effective programs for primary aged children.

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## EEC4207: Measurement, Evaluation, and Planning for Early Literacy Development

Prerequisite: LAE 3210 and EEC 4213. Students will learn formal and informal strategies related to planning literacy instruction. Students select and implement tools and procedures, interpret and apply findings.

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## EEC4209: Integrated Music, Art, and Movement for Primary Children <br> Prerequisite: EEC 4260. Students will explore the creative arts through an integrated methods course in music, art, and movement for primary children. The role of the teacher includes instructional strategies for integration, assessment and concept development.

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## EEC4210: Integrated Math, Science \& Social Studies for Primary Children

 6Prerequisite: EEC 4260. The course includes strategies for developing thinking skills and early mathematical and science thinking. Strategies for integrating math, science and social studies across the curriculum will be included.

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## EEC4213: Teaching Beginning Reading and Writing

Prerequisite: LAE 3210. An integrated methods course for Language Arts, Reading and Literature for students in the Pre-K/Primary program. Includes strategies for designing integrated environments, and the relationships of language, literature and reading.

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## EEC4260: Developmentally Appropriate Practices for PreKindergarten/Primary Teachers

Prerequisites: EDF 1005, EDG 2701, EME 2040. The course focuses on historical theorists, theories, issues and trends that have influenced primary education. The course teaches preservice teachers how to design and implement developmentally appropriate classrooms that promote physical, social, emotional and cognitive development.

## School

A study of elementary school health, safety, and movement education programs. For elementary education majors.

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## LAE3210: Foundations of Literacy

This is the first of three literacy courses in the Elementary Education Program. It forms the basis for understanding language development, theories of language, and the issues and experience important to the development of literacy. This course must be taken prior to the second literacy course.

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# LAE3211: Methods and Resources for Literacy Development <br> Prerequisite: Foundations of Literacy LAE 3210. This is the second of three literacy courses in the Elementary Education program. It expands upon the concepts learned in Foundations of Literacy and applies them for teaching applications. 

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## LAE4312: Measurement, Evaluation \& Planning for Literacy Development

Prerequisite: LAE 3211. This is the third literacy course in the elementary program. It follows courses in the foundations of literacy development and methods and resources for literacy teaching/learning. It will enable preservice teachers to understand the scope and place of diagnosis and subsequent literacy instruction in the literacy development program; the roles played by the classroom teacher and other specialized personnel in the school; the wise use of a variety of diagnostic tools(tests and other measurement techniques) to measure literacy ability, and based on such measurement, evaluate the student's literacy abilities; the planning and implementation of an appropriate instructional program based on such an evaluation.

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## MAE3312: Mathematics Methods for Elementary Teachers

Prerequisites: EDG 3324. This course is designed to develop competencies in selecting methods, resources, and assessment strategies for teaching integrated mathematics with other content areas. The content strongly reflects the curriculum emphases of the National Council of Teacher of Mathematics and the Florida Sunshine State Standards and topics are presented using a process-oriented approach.

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## RED3310: Teaching Reading as a Process

Study of the reading process, approaches, skills, and materials used in elementary reading instruction. Course or equivalent before senior internship.

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Prerequisite: MAE 3312. Methods and resources for teaching science in the elementary school.

## SSE3313: Social Studies Methods for Elementary Teachers

This course examines standards, issues, and methods related to the teaching of social studies in the elementary school. It includes and emphasis on culture and the arts as ways of knowing and learning about social studies.

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## TSL3080: Principles and Issues in TESOL

Prerequisite: As prescribed by program of study. This course covers issues basic to understanding legal and social imperatives in teaching English language learners in K-12 settings as well as theories and principles of second language acquisition.

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TSL4324: TESOL for Secondary Content Area Teachers
This course is designed to prepare secondary content area teachers (not including Secondary English teachers) and K-12 teachers, including Art Education, Music Education, and Physical Education, to teach and accommodate ESOL (English for Speakers of Other Languages) students in the mainstream secondary classroom. This course will include a 20 -hour ESOL field component in a secondary school.

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TSL4340: TESOL Methods and Curriculum
Prerequisite: RED 3310 and TSL 3080 or as prescribed by the program of study.
Description: This course is designed to assist students in integrating the theories and principles of second language learning and applying them to classroom instruction. ESOL methodology and curriculum will be emphasized as they relate to current best practice in ESOL instruction. A field experience requiring students to work in classrooms serving English language learners is required.

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## TSL4360: TESOL Methods and Curriculum for Secondary

## Undergraduate Courses

## Foundations and Secondary Education

## Course Descriptions:

## APK3110C: Physiology of Exercise

Prerequisite: BSC 2085C
Description: A study of the physiological bases of physical activity, with emphasis given to the specific effects of exercise on body function, health related fitness and sports performance.

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## ARE4316: Art Education in Elementary Schools

Prerequisite: EDG 3323 and EDF 4444. An in-depth examination of art education programs and resources, grades K-6. This course, designed for art education majors, focuses on skills development in planning, teaching and evaluating sequential learning experiences in the making of art, art criticism, art history and aesthetics at the elementary level.

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## ARE4341: Art Education in Secondary Schools: An Inquiry

Prerequisites: EDG 3323, EDF 4444 and ARE 4316. An investigation of junior high/middle school and high school art education programs and resources, grades 6-12. The course emphasizes skills development in planning, teaching and evaluating learning experiences in art studio, art criticism, art history and aesthetics and the development of a personal philosophy of art education.

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ARE4353: Teaching Art with a Discipline-Based Focus in

## Grades K-12

Prerequisite: EDG 3323 and EDF 4444 An investigation of elementary, junior high/middle school and high school art programs and resources, grades K-12. The course emphasizes skills development in planning for, teaching and evaluating learning experiences in art studio, art criticism, art history and aesthetics, and the development of a personal philosophy of art education.

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ARE4356: Teaching Aesthetics, Criticism, and Art History in K12

The course is designed to provide pre-service art teachers with the knowledge, skills, and dispositions needed to design and teach Aesthetics, Art Criticism, and Art History in K-12 classrooms. Participants will review literature on teaching aesthetics, criticism, and art history in K-12 classrooms and develop skills in designing art learned experiences in the three disciplines in those settings. The course will require visits to local and regional art museums and galleries within reach of the participants' own residential locations.

Prerequisite: PET 3713. A study of the research-based principles and methods used to teach developmentally appropriate rhythms and dance in the elementary school.

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## EDF1005: Introduction to the Teaching Profession

Description: This is a survey course including historical, sociological and philosophical foundations of education, governance and finance of education, educational policies, legal, moral and ethical issues and the professionalism of teaching. Students will be provided information on the Florida Educator Accomplished Practices, Sunshine State Standards, and the Professional Educator Competencies. Students are required to complete a minimum of 18 hours of field-based experiences with children and youth in schools or similar settings. The experiences should not be conducted via virtual modes of film or Internet. It is highly recommended that this course not be taken concurrently with EDF2085 Diversity for Educators.

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## EDF2085: Introduction to Diversity for Educators

Description: Designed for the prospective educator, this course provides the opportunity to explore issues of diversity, including an understanding of the influence of exceptionalities, culture, family, gender, sexual orientation, socioeconomic status, religion, language of origin, ethnicity, and age upon the educational experience. Students will explore personal attitudes toward diversity and exceptionalities. Students will be provided information on the Florida Educator Accomplished Practices, Sunshine State Standards, and the Professional Educator Competencies. A minimum of 18 hours of field-based experiences working with diverse populations of children and youth in schools or similar settings is required. The experiences should not be conducted via virtual modes of film or Internet. It is highly recommended that this course not be taken concurrently with EDF1005 Introduction to the Teaching Profession.

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## EDF3151: Educational Psychology

An examination of the cognitive, social and emotional characteristics of $\mathrm{K}-12$ learners together with sources of learner individuality including culture, gender, and socioeconomic status. The course includes a discussion of learning and its implications for instruction.

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## EDF4444: Assessment of Learning and Behavior

Prerequisite: EDF 3151 and EDF 3945 Examination of teacher prepared and standardized measures of student achievement, behavioral construction and other factors influencing learning and teaching.

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## EDG3323: The Learning Process

Corequisite: EDF 3945. An introduction to the design and implementation of curriculum. Emphasis is placed upon developing and writing goals and objectives, planning and
implementing lessons, developing and presenting instructional models, utilizing effective verbal communication and conceptualizing motivational strategies.

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## EDG3949: Experiential Studies in Education

v. 0-

3

Prerequisite: Acceptance in cooperative education program. Students will participate in supervised work experiences related to their areas of interest. Students may repeat this course for credit, up to a total of six (6) semester hours.

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## EDG4205: Middle School Philosophy/Curriculum

An introduction to current and emerging trends that are shaping curriculum development and instructional practices in today's middle schools. The course also examines the philosophical underpinnings of the middle school movement and its emphasis on the in-between-ager. Topics include: the development of young adolescents; the middle school movement; the curriculum for learners in the middle grades; effective instruction in the middle grades; classroom management and discipline; interdisciplinary team organizations; the advisory role; evaluation; and grouping. Includes observation/participation in appropriate settings.

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## EDG4410: Classroom Management and Communication

Prerequisite: EDF 3151 and EDF 3945 This course provides preservice teachers with the basic skills necessary for effective classroom management and clear communication. It specifically assists preservice teachers in developing a set of behaviors designed to elicit and maintain student learning and on-task behaviors.

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Prerequisite: Consent of division chairperson. May be repeated up to 36 credits.
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ESE4943: Student Internship v. 1-

Prerequisite: Completion of requirements prescribed in Internship handbook.
Description: Designed as a culminating experience in the student's major field which allows the student an opportunity to practice skills under careful observation and in cooperation with a master teacher. Internship is allowable only in major area of concentration.
Course Fees: \$36
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## ETG3949: Experimental Study/Technology

v. 0-

3

Prerequisite: Acceptance in Cooperative Education Program. Students will participate in supervised work experiences related to their areas of interest. Students may receive repeat credit for this course.

## FLE4333: Special Methods: Foreign Languages

Prerequisites: A minimum of 12 semester hours in one foreign language, and at least 6 hours at the upper level. An examination of the instructional methods, materials, and curriculum for teaching K-12 level foreign languages. Offered fall term only.

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## LAE4323: Special Methods: Middle Grades English

Prerequisites: AML 2012, LIT 2000, LIT 3333, and EDG 3323. Students will be prepared to teach emerging adolescents the oracy and literary skills needed in today's society using an integrated, multicultural research-based, whole language approach.

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LAE4335: Special Methods: Secondary English
Prerequisites: EDF 3945, EDG 3323. An examination of the instructional methods, materials, and curriculum for teaching secondary level English. Offered fall term only.

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MAE4320: Special Methods: Middle Grades Mathematics
Prerequisites: EDF 3945, EDG 3323 Offered fall term only. Introduction to the instructional methods, materials, and curriculum for teaching middle grades students mathematics.

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## MAE4330: Special Methods: Secondary Mathematics

Prerequisites: EDF 3945, EDG 3323 An examination of the instructional methods, materials, and curriculum for teaching secondary level mathematics. Offered fall term only.

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## PEL1121: Golf

Skill technique, club selection and match strategy instruction and performance in golf. A range/rule book fee of $\$ 33$ is necessary for participation and is payable by check (made out to UNF Hayt Golf Learning Center/Golfplex).

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## PEL1211: Softball

Introduction to the basic skills, strategies and rules of softball.
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## PEL1321: Volleyball

Skill technique and game strategy instruction with performance in volleyball.
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Skill technique and game strategy instruction with performance in tennis.

## PEL1441: Raquetball

The course provides for instruction and practice to learn/improve basic racquetball skills as well as knowledge of the strategies and rules for racquetball.

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## PEL1511: Soccer

1
Skill technique and game strategy instruction with performance in soccer.
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## PEL1621: Basketball

The course provides for instruction and practice to learn/improve basic basketball skills as well as knowledge of the strategies and rules for basketball.

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## PEL2905: Selected Sports Activities: Variable Title

An introduction to the basic skills and strategies utilized in selected individual/dual and team sports. May be repeated up to 16 credits.

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## PEM1104: Physical Conditioning

 1Instruction in health-related fitness prescription and evaluation with performance and personal assessment in walking, jogging, rope jumping, or fitness trail exercise.

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## PEM1131: Weight Training

Instruction in health-related fitness prescription and evaluation with performance and personal assessment in weight training involving Nautilus/universal machines.

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PEM1930: Aerobic Dance
Instruction and practice for basic skills and health related fitness development concerning aerobic dance.

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## PEN1121: Beginning Swimming

Basic swimming stroke and water safety instruction and performance.
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The course provides for instruction and practice to learn/improve basic skills in sailing small
craft.
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## PEN2114: Lifeguard Training

Instruction and performance in the skills and knowledge necessary for lifeguarding competency. Students who successfully complete the course are eligible for American Red Cross Lifeguard Training Certification.

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## PEN2122: Intermediate Swimming

Instruction and performance in improving techniques in a variety of swimming strokes and water emergency prevention and response. Students will work toward the American Red Cross Certification in Emergency Water Safety.

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## PEN2172: Fitness Swimming

Prerequisite: PEN 2122. Instruction in health-related fitness prescription and evaluation with performance and personal assessment in swimming or aquatic exercise.

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## PEO2004: Theory and Practice in Coaching

A study of research based principles and methods used to coach individual and team sports.
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## PEO2011: Teaching Team Sports

Prerequisite: PET 3713. A study of research-based principles and methods used to teach team sport skills and activities in middle and high school physical education.

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## PEO2031: Teaching Individual and Dual Sports

Prerequisite: PET 3713. A study of research-based principles and methods used to teach individual and dual sports skills and activities in middle and high school physical education.

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## PEO3007: Selected Coaching: Variable Titles

A study of the physical skills, game strategies, optimum practice conditions, physical conditioning, rules, facilities and equipment, program administration and special ethics and liability concerns in coaching a selected team or individual/dual sport. May be repeated up to 16 credits.

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## PEO3106: Fitness Education for Children and Adolescents

The course involves a study of developmentally appropriate content and methods used to teach fitness knowledge and develop/assess health-related physical fitness in schools and youth agencies.

## PEO3344: Tennis Coaching

A study of the physical skills, game strategies, optimum practice conditions, physical conditioning, rules, facilities and equipment, program administration and special ethics and liability concerns in coaching tennis.

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## PEO4041: Games in the Elementary School

Prerequisite: PET 3713. A study of the research-based principles and methods used to teach developmentally appropriate games in the elementary school.

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PEP3205: Gymnastics and Body Management in the Elementary

## School

Prerequisite: PET 3713. A study of the research-based principles and methods used to teach developmentally appropriate gymnastics and body management in the elementary school.

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## PEP3304: Track and Field Coaching

A study of the physical skills, event strategies, optimum practice conditions, physical conditioning, rules, facilities and equipment, program administration, and special ethics and liability concerns in coaching track and field.

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## PET2622: Care and Prevention of Sport Injuries

Prerequisite/Corequisite: PET 3351C. A study of the principles and methods used to prevent and care for injuries sustained during physical activity.

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## PET3311: Kinesiology and Motor Behavior

Prerequisite: BSC 2085C. An integrated study of three movement disciplines including: principles and assessment in motor development, skill acquisition theory/strategies in motor learning, and applied human movement focusing on musculo-skeletal actions and mechanical principles/movement patterns related to sport skills.

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## PET3434: Teaching Movement Skills to Children

The course involves a study of developmentally appropriate content and methods used to teach fundamental movement skills plus game, body management, and rhythm/dance activities to children in schools and youth agencies.

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use of the physical medium to develop the academic and cognitive skills of elementary school children.

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## PET3641: Curriculum and Methods in K-12 and Adapted Physical Education

The course involves a study of planning curriculum and providing instruction in K-12 physical education and adapted physical education programs.

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## PET3713: Special Methods and Curriculum for K-8 and 6-12

A study of the methods and procedures used to develop curricula and provide instruction in elementary, middle, and high school physical education programs.

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## PET3820: Teaching Sport Skills to Adolescents

This course involves a study of developmentally appropriate content and methods used to teach skills, learning activities, and strategies for team, individual, and dual sports to adolescents in schools and youth agencies.

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## PET4401: Administration of Physical Education and Sport

A study of the principles and theories in organizing and managing programs in physical education and sport leadership.

Back to Top

## PET4640: Adapted Physical Education

A study of the principles and techniques used to meet the unique motor and health related fitness needs of individuals with special limitations.

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## PET4910: Directed Individual Study

v. 1-

3

The student will select a physical education project and conduct research and field experiences under the guidance of a faculty advisor. May be repeated up to 16 credits.

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RED3333: Content Area Reading
Exploration of content area reading problems and investigation of various solutions. The reading process, approaches, skills, and materials used in secondary reading instruction are studied.

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Prerequisites: EDF 3945, EDG 3323 Introduction to the instructional methods, materials, and curriculum for teaching middle grades science.

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## SCE4330: Special Methods: Secondary Science

Prerequisites: EDF 3945, EDG 3323 An examination of the instructional methods, materials, and curriculum for teaching secondary level science. For other content prerequisites, see special methods course prerequisites secondary majors. Offered fall term only.

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## SSE4324: Special Methods: Middle Grades Social Science

Prerequisite: EDF 3945. Corequisite: EDF 3946. The purpose of this course is to help preservice and inservice social science teachers to articulate and apply a philosophy of middle level education that will enable them to plan and implement effective and appropriate educational experiences for emerging adolescents.

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SSE4384: Special Methods: Social Studies
Prerequisites: EDF 3945, EDG 3323 An examination of the instructional methods, materials, and curriculum for teaching secondary level social studies. For other content prerequisites, see special methods course prerequisites secondary majors. Offered fall term only.

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## Undergraduate Courses

## Education and Human Services

Course Descriptions:

## EDE4943: Practicum II: Student Internship

Prerequisite: Pre-Kindergarten/Primary students only, 60 volunteer service hours.
Description: Completion of requirements prescribed in Internship handbook, available in the Office of Field Experiences. Designed as a culminating experience in the student's major field, which allows the student an opportunity to practice skills under careful observation and in cooperation with a master teacher.
Course Fees: \$36
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## EDF3945: Field Laboratory I <br> v. 2-

4
Prerequisite or Corequisite: EDG 3323. Supervised, structured field experiences in selected schools designed to assist in the acquisition of the accomplished practices required by Florida State Board of Education Rules. Weekly seminars are held to augment and reinforce the field experiences.

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## EDF3946: Field Laboratory II

v. 2-

4

Prerequisites: EDF 3945, EDG 3323. Corequisites: Special Methods Courses. Continuation of supervised, structured field experiences in selected schools designed to assist in the acquisition of the accomplished practices required by Florida State Board of Education Rules. Weekly seminars are held to augment and reinforce the field experiences.

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## EDG2931: Special Topics

v. 1-

3
Variable title and hours.
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## MUE3944: Music Education Field Laboratory

Continuation of supervised, structured field experiences (5 hours per week for ten consecutive weeks) in selected schools designed to assist in the acquisition of generic teaching competencies required by Florida State Board of Education Rules. Weekly seminars (1 1/2 hours for 16 weeks) for music education majors only.

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## PET4945L: Student Teaching

Prerequisite: Completion of all Core I and Core II requirements.
Description: Designed as a culminating experience which allows the student the opportunity to teach under the supervision of a master teacher.
Course Fees: \$36
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## Undergraduate Courses

## Leadership, School Counseling and Sport Management

## Course Descriptions:

## EME2040: Introduction to Technology for Educators

Description: Students will learn the application of instructional design principles for the use of technology to enhance the quality of teaching and learning in the classroom. The course includes hands-on experience with educational media, emerging technologies, and hardware, software, and peripherals for the personal computer as well as data-driven decision-making processes. Students also learn the identification of appropriate software for classroom applications, classroom procedures for integrating technologies with emphasis on legal and ethical use, and effective instructional strategies for teachers and students in regard to research, analysis, and demonstration of technology. Students will be provided an overview of the Florida Educator Accomplished Practices, Sunshine State Standards, the Professional Educator Competencies, and the National Educational Technology Standards.

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## ETE4344: Special Methods in Technology Education

Description: This course offers instruction in teaching methods, devices, and techniques specific to the instructional area. This course teaches lesson plans, curriculum frameworks, program standards; competency-based program organization, selecting and preparing instructional materials; organization and management of the technology education classroom and laboratory.

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LDR3003: Introduction to Leadership

Description: This course introduces participants to the major theories of leadership and their application in personal and professional settings. Participants engage in self-reflective and applied learning activities that allow them to draw upon their personal characteristics and experiences in order to make connections between class work and their own leadership roles in their communities.

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## LDR3320: Collaborative Leadership

## Prerequisite: LDR 3003

Description: The focus of this class is on leadership within the context of small work groups and self-directed project teams and their role and functions within community organizations. The course is designed to provide students with the knowledge and skills necessary to function as an effective team member and leader, to promote the development of an understanding of the role(s) of work groups/teams within the community organization, and to introduce students to group/team leadership theories and research and their implications for the broader context of leadership in culturally diverse settings. A community based learning

## LDR4263: Community Leadership Practicum

Prerequisite: LDR 3003, LDR 3320
Description: The course is designed to provide students with experiences that take them outside the walls of the classroom and into community settings, thus allowing students to deepen their leadership knowledge and translate it into practice while directly applying leadership skills in hands-on activities.

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## LDR4340: Resource Development in Community Organizations

Description: This course is designed to address the needs of all types and sizes of non-profit organizations, from small religious groups and community social services agencies to major cultural institutions, colleges and universities. Students will be actively engaged in the processes of developing and managing resources, volunteers, legal issues, and governance issues for non-profit agencies.

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## PET3473: Communication in Sport

Description: Students in this course will gain a basic knowledge and understanding of the principles of communication in sport as applied to the sport industry. Emphasis is on both traditional and innovative communication methods available to sport organizations.

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PET3474: Special Topics in Sport

Description: This course will provide students with variable topics in the area of Sport Management.

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PET3493: Issues in Sport

Description: This course includes a study of the major social and ethical issues relating to sport. The course revolves around in-depth discussions among athletes, academics, coaches, administrators, doctors, lawyers, and business people concerning issues in sport. Students will encounter unique descriptive accounts which depict how sports actually affect individuals, organizations, institutions, and society. Philosphical, socio-cultural, and technological issues are also a part of the learning agenda in the course.

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PET4464: Sport Finance

Description: Students in this course will gain a basic knowledge and understanding of the principles of sport finance as applied to the sport industry. Emphasis is on both traditional and innovative revenue acquisition methods available to sport organizations.

Description: This course is designed to be an overview of the legal issues most often encountered in sport and physical activity. The course content will include an emphasis on tort, contract, and selected areas of constitutional, statutory, contract, labor, and commercial law. Students will become aware of the rights of participants, athletes, coaches, managers, teachers, referees and others engaged in amateur and professional sport. Legal issues related to sport clubs, schools and organizations in which the principal events involve physical activity will also be addressed. Precedent-setting court decisions will be explained and will serve as a guide for students in creating risk management systems.

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## SPB3603: Diversity in Sport

Description: This course will examine the impact and role of ethnicity, gender, and disability on sport and sport organizations. This process will include investigating how sport diversity has affected social class, sport participation and sport spectatorship. The sport industry is so diverse we will cover the professional sport teams, intercollegiate athletics, national governing bodies (NGBs), recreational and leisure settings, municipal sport settings, fitness sport; and non-profit entities (YMCA, YWCA, and others).

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## SPM2000: Introduction to Sport Management

Description: This course is designed to provide students a foundation in the field of sport management. It is an introductory course designed to generate interest and understanding in continued study of the sport industry. Students will have the opportunity to meet and interact with various sport management professionals in the local community and have the opportunity to network in the sport industry.

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## SPM3044: Governance and NCAA Compliance

Description: Students will learn the structure and function of the various sport organizations. There will be signifiant focus on the National Collegiate Athletic Association (NCAA) which is the biggest governing body in collegiate athletics. This course challenges students to integrate management theory with governance and policy development practices. Case studies are incorporated so that students are able to utilize the concepts taught in the course.

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## SPM3104: Sport Facility Management

Description: This course was designed to provide students the fundamental skills of sport facility management. Students will benefit from the real-world examples and detailed assessment of the various facility management issues. Some of the facility management issues covered are facility design, facility planning, event administration, marketing and sales, security planning, and risk management.

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Description: This course is designed to provide students a basic knowledge and understanding of the principles of sport marketing as applied to the sport industry. Emphasis is on critical analysis in sport marketing management theory as it applies to the sport industry.

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## SPM3948C: Sport Management Practicum

3

Prerequisite: Department Permission
Description: Participation in this practicum provides students a supervised, structural field experience in an on-campus or community setting to assist in the acquisition of sport leadership organization and administration skills.

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## SPM4941: Sport Management Internship

12Designed as a culminating experience which allows the student to apply leadership skills in an on-campus or community setting in sport leadership. A valid First Aid/CPR card must be held by interns for the entire internship.

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## Undergraduate Courses

## Exceptional, Deaf and Interpreter Education

## Course Descriptions:

## ASL2140: American Sign Language I

This course in American Sign Language is designed to teach basic conversational skills in ASL and an awareness of various aspects of deafness. This course will present the student with the structure, some conversational vocabulary and grammatical principles of American Sign Language. Students will learn the historical, cultural, and social aspects of deafness.

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## ASL2150: American Sign Language II

Prerequisite: ASL 2140 ASL II is designed to continue development of conversational skills in American Sign Language. Students will use the vocabulary and skills that they learned in ASL I as support for new vocabulary and skills that they will learn in ASL II. The course will focus on grammar and syntax, vocabulary, and culture of the Deaf.

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## ASL3226: Advanced ASL Proficiency

Prerequisite: ASL 4211 ASL IV Advanced ASL Proficiency is designed to allow students of ASL and interpreting to use ASL as a natural, conversational language. Students will use ASL to communicate with the deaf and to refine grammatical and linguistic structure of ASL. The focus is on enhancing the proficiency with which students use ASL.

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## ASL3301: ASL Structure

Prerequisites:ASL 2140 ASL I with a grade of "C" or better. This course examines the linguistic structure of American Sign Language. Students examine the phonological, morphological, semantic, syntactical, idiomatic, and metaphorical aspects of American Sign Language. Current research in the field is examined and discussed.

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ASL3435: Fingerspelling and Numbering Systems in ASL
Prerequisites:ASL 2140 ASL I with a grade of "C" or better. This course provides instruction in the rules of fingerspelling and numbering systems in American Sign Language. Students will practice both expressive and receptive skills at varying levels of complexity.

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ASL3514: Deaf Culture
cultural group and the history of American Sign Language. Students will study cultural norms, values, traditions, and rules of social behavior of the deaf community, as well as minority dynamics and cross-cultural interactions.

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## ASL4131: American Sign Language III

Prerequisites: ASL 2140 and ASL 2150 This course, a continuation of American Sign Language II, will emphasize the continued development of advanced sign vocabulary, compound complex grammatical constructions, usage and the development of advanced receptive and expressive conversational American Sign Language skills.

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## ASL4211: American Sign Language IV

Prerequisites: ASL 2140, ASL 2150 and ASL 4131 This course, a continuation of American Sign Language III, will emphasize the continued development of advanced sign vocabulary, compound complex grammatical constructions, usage and the development of advanced receptive and expressive conversational American Sign Language skills. The linguistic structures of American Sign Language will also be studied.

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## ASL4324: Advanced ASL Discourse

Prerequisite: ASL 3226 Advanced ASL Proficiency This course is designed to introduce the process of discourse analysis and enhance students' competency in ASL and interpreting by applying the process to interpreting. Students will also practice the use of ASL in a variety of discourse settings. Focus will be on the analysis of discourse in ASL and English.

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## EBD3011: Nature and Needs of Emotionally Handicapped Learners

A survey of the characteristics of emotionally handicapped learners and their educational needs, focusing upon etiology, prevention, intervention models, and utilization of community resources.

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## EBD4212: Behavior Management Techniques for Use with Emotionally Handicapped Learners

 3This course prepares teachers of the handicapped with behavior management techniques for use with emotionally handicapped students. The emphasis is on the application of theories, crisis intervention, prevention, legal considerations and counseling skills.

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EBD4231: Specialized Curriculum for Emotionally Handicapped

Prerequisites: EEX 3202 and EBD 3011. A survey of curriculum and curricular modifications appropriate for emotionally handicapped learners. Focus on specialized curriculum development, and the identification, evaluation, modification and use of commercial materials and programs in the areas of the affective and academic curriculum.

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# EBD4243: Instructional Strategies for Students with Emotional Handicaps <br> Prerequisite: EBD 3011. This course addresses instructional strategies for teaching students with emotional handicaps to include instructional techniques and motivational strategies; the development, implementation, and evaluation of individualized educational plans; and data based management. Field experience required. 

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#### Abstract

EDG2000: Career Planning This course involves self-assessment activities (looking at students' skills, interests, values, and personality characteristics as they relate to career choice), career decision-making, career exploration, and learning the necessary employability skills (i.e. resume writing, networking, interviewing techniques, your career, and your future) to obtain and keep a job once a choice has been made. The basic purpose of the course is to provide an opportunity for students to develop the necessary skills in all areas of career development. A Career Assessment (test) and Fee are required.


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## EEX3202: Psychology and Sociology of the Exceptional Learner

Prerequisite: EDF 2085. Advanced study in the psychology and sociology of exceptional learners. The course examines exceptional learners in terms of their cognitive, affective and psychomotor characteristics and their functioning within families, schools and society.

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## EEX3250: Reading Methods for Learners with Exceptionalities

Prerequisite and Corequisite: EEX 3202, EEX 4101, EEX 3252 or its equivalent This reading methods course focuses on the principles of scientifically-based reading research as the foundation of comprehensive reading instruction. The assessment and development of the major components of phonemic awareness, phonics, fluency, vocabulary, and comprehension are discussed. Included in this course is the development of standards-based lessons and strategies for differenentiating instruction to accommodate diverse learners. The purpose of the course is to prepare pre-service teachers to teach reading to students with a wide range of abilities, including those who are also English Language Learners. Field experience is required.

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## EEX3251: Mathematics Methods for Learners with Exceptionalities

This course focuses on mathematics teaching methods for learners with exceptionalities, grades K-12. Standards-based lessons with accommodations for learning differences are emphasized. Differentiated teaching methodology is stressed. Adaptations of content, assessment and alternative instructional strategies are explored in this course.

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EEX3252: Language Arts for Exceptional Learners
This language arts methods course focuses on the assessment and development of written expression, handwriting, and spelling for exceptional learners. Included are strategies for teaching writing vocabulary, syntax and grammar, and writing mechanics. Methods for
teaching the writing process and the different writing genres are explored. The development of standards-based lessons and strategies for differentiating instruction to accommodate diverse learners are integrated throughout. The purpose of the course is to prepare pre-service teachers to teach language arts to students with a wide range of abilities, including those who are also English Language Learners. Field Experience is required.

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## EEX4067: Affective and Functional Living Skills for Students with Exceptionalities

Prerequisites: EEX 3202, EEX 4255, and EEX 4221 This course focuses on understanding and applying proactive strategies in the areas of (a) communication, (b) functional living and academic skills, and (c) behavioral, social, and affective growth when teaching children with a range of exceptionalities. Emphasis will be on strategies for dealing with learners with learning disabilities, emotional and behavioral disorders and developmental disabilities. Strategies for dealing with the diverse learning needs of students with English as a second language is also included.

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## EEX4101: Language Development and Disorders

This course addresses language development and learning, to include language development and disorders, the impact of language on learning, and augmentative communication. Field experience required.

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## EEX4201: Pre-Kindergarten and Primary Children with Exceptionalities

This course studies the developmental variations in young children that affect their cognition, mobility, social-emotional development, and speech and language development. This course includes procedures for screening, assessing, and placing children with special needs in appropriate educational settings, strategies for parental involvement, and development of appropriate curriculum, methods, and materials for teaching children in inclusive settings. Field experience required.

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## EEX4221: Educational Assessment for Learners with Exceptionalities

 3Prerequisite: EEX 2010 or EEX 3202 and Corequisite EEX 3202 or its equivalent This course addresses curriculum-based and related assessment processes and procedures for learners with special needs. The course includes special emphasis on classroom testing and evaluation strategies.

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## EEX4253: Literacy and Academic Strategies for Students with Varying Exceptionalities

Prerequisites: EEX 3202, EEX 4255, and EEX 4221. This course addresses instructional strategies for teaching students with varying exceptionalities, including, specific learning disabilities, emotional handicaps and mental handicaps. Throughout the course, specialized approaches to teaching basic literacy skills, metacognitive skills, and adaptation of curriculum and materials at the secondary level are explored. Field experience required.

## EEX4255: Curriculum and Instruction for Learners with Exceptionalities

Prerequisites: EEX 3202 and EEX 4221 Corequisites: EEX 3202 This course focuses on the characteristics and the educational needs of students with disabilities. Instruction in the development of Individualized Education Programs (IEPs), unit planning, and lesson planning is provided. Attention is given to how to incorporate the accommodations and modification for students with disabilities into units and lessons. This course includes the use of technology in curriculum planning. The relationships among planning, teaching, learning, assessment, and reflection are discussed.

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## EEX4281: Social, Personal, and Career Skills for Learners with Exceptionalities

Pre-requisite: EEX 3202
Co-requisite: EEX 3202 This course covers methods of teaching social and personal skills for exceptional students. Emphasis is placed on employability skills, career awareness, and transition planning for adult living.

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## EEX4474: Teaching Students with Moderate to Severe Disabilities

Prerequisite: EEX 3202 This course is designed to introduce students to instructional approaches and strategies for students with moderate to severe disabilities.

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## EEX4484: Math and Science for Learners with Exceptionalities

Prerequisite: EEX 3202 This course is designed to give students the opportunity to learn about pedagogy and curriculum for teaching math and science to learners with Exceptionalities. Students will be introduced to instructional skills in the areas of assessment, planning, implementation, and evaluation as they relate to teaching math and science. In addition, students will be able to practice many of the technical skills needed to prepare instructional materials for the classroom.

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EEX4604: Behavior Management and Research: Learners with Exceptionalities

This course is designed to prepare teachers to manage the behaviors of children with exceptionalities through the process of action research. Students will learn how to identify social or academic behaviors for change, record baseline measures, assess antecedents, conduct a literature review, select and implement an intervention, record and graph progress, evaluate and analyze behavior change, and report findings to peers. Field experience is required.

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## EEX4616: Classroom Management of Learners with

developing a personal philosophy of classroom management. This course explores several theories of classroom management and emphasizes strategies that are designed to meet the needs of children with exceptionalities. Students will learn how to (a) design, manage, and maintain safe school and classroom environment conductive to learning, (b) implement teaching strategies derived from theory and best practices, and (c) complete a classroom management plan and philosophy of education.

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## EEX4753: Cooperative Consultation in Exceptional Student Education

Prerequisite: EEX 3202 This course will focus on the acquisition of knowledge and skills in communication, collaboration, and consultation and application of such knowledge and skills to interactions special educators have with general educators, administrators, parents, agency personnel and other stakeholders in the lives of individuals with disabilities. Students will examine specific techniques, related media, and experiences designed to equip special education teachers with skills to collaborate with school and community professionals and families to provide a necessary range of services to students.

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## EEX4794: Educating Urban Students with Diverse Learning Needs

This course considers the social, cultural, economic, and political factors that influence urban education. As examples, it explores the ways in which immigration, race, poverty, employment, housing, teenage pregnancy; substance abuse, shifting community demographics, and neighborhood violence have become inextricably entwined with urban education. It emphasizes the strengths and weaknesses of traditional classroom-based models as well as alternative community-based models. Some of the historical, recent, and emerging models that will be discussed rely on families, places of worship, and community organizations. This broad and eclectic course is designed for all college students, including those who never have enrolled in professional education courses.

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## EEX4861: Internship

Prerequisite: Completion of requirements prescribed on student's program of study.
Description: Teaching competencies are demonstrated under the observation of a cooperating master teacher in the student's major field.
Repeatability: May be repeated up to 24 credits.
Course Fees: \$36
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## EEX4905: Individual Investigation and Study

Prerequisite: Permission required. A course which permits the student to investigate selected topics in a specialized area. May be repeated up to 15 credits.

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EEX4930: Seminar in Exceptional Student Education
with the knowledge and skills necessary to effectively apply research findings in their areas of study. May be repeated up to 6 credits.

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## EHD4245: Language Development Deaf/Hard of Hearing

Prerequisites: EEX 4101 \& EHD 4311. This course will provide an introduction to the development of language in children who are deaf or hard of hearing, and the effects of hearing loss on the development of English. Field experience is required.

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## EHD4248: Foundation of Literacy Development Deaf/Hard of Hearing I

Prerequisites: EHD 4311, EEX 4101, EHD 4245 Corequisite: EHD 4249. This course is designed to continue the development of necessary knowledge and skills to understand the development of literacy, through writing, reading, and signing in learners who are deaf or hard of hearing. Issues presented in this course are designed to complement content of the corequisite course entitled "Foundations of Literacy Development of Students who are Deaf or Hard of Hearing I".

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## EHD4249: Foundations of Literacy Development Deaf/Hard of Hearing II

Prerequisites: EHD 4311, EEX 4101, EHD 4245 Corequisite: EHD 4248. This course is designed to continue the development of necessary knowledge and skills to understand the development of literacy, through writing, reading, and signing in learners who are deaf or hard of hearing. Issues presented in this course are designed to complement content of the corequisite course entitled "Foundations of Literacy Development of Students who are Deaf or Hard of Hearing I".

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## EHD4261: Audiology and Speech Science

Prerequisite: EHD 4311. A study of the physical characteristics of the speech and hearing mechanisms, the physical dimensions of sound, the psycho-acoustic aspects of sounds, and the relationships among these areas. Field experience required.

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## EHD4311: Psychology and Education of the Deaf

An introduction to the nature and needs of students who are deaf or hard of hearing with attention to identification, characteristics, assessment and intervention. The course will include the history and philosophy of deaf education. Field experience required.

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EHD4940: Deaf Education Field Practicum
Prerequisite: EHD 4311, EHD 4245, ASL 2140.Corequisites:ASL 4131 This course will provide deaf education majors an opportunity to observe deaf and hard of hearing students in classroom and/or dormitory settings. Deaf education majors will interact with deaf or hard of hearing students and observe both their culture and use of language. This course will consist of periodic meetings to process the observation and field experiences. Course may be repeated for credit.

## ELD3011: Survey of Learning Disabilities

A survey of factors related to the education of the learning disabled. This course will focus on historical developments, causation, related concepts, educational considerations, and professional aspects.

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## ELD4144: Instructional Strategies for Individuals with Learning Disabilities

 2This course addresses instructional strategies for teaching students with specific learning disabilities to include specialized approaches to teaching basic skills, metacognitive skills, and adaptation of curriculum and materials. Field experience required.

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## ELD4230: Curriculum for Students with Learning Disabilities

Prerequisite: ELD 3011. This course provides an analysis of curricula appropriate for learning disabled students at all educational levels. Use and adaptation of curricular materials will be addressed as well as lesson and unit planning.

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## EMR3011: Survey of Mental Retardation

A survey of factors related to the education of the mentally retarded. This course will focus on historical developments, causation, related concepts, educational considerations, and professional aspects.

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## EMR4222: Specialized Curriculum for Students Who Are Mentally Handicapped

Prerequisite: EMR 3011. This course covers specialized curriculum for students who are mentally handicapped. The course content includes identification and application of effective practices and recognition of trends and standards in the field.

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## EMR4362: Instructional Strategies for Learners Who Are Mentally Handicapped

Instructional strategies for teaching students who are mentally handicapped are examined including development, implementation, and evaluation of individualized educational plans; specialized approaches to teaching functional skills, developmental programming; and data based management. Field experience required.

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## INT3134: Ethical Decision Making for Interpreters

This course examines professional codes of ethics and professional codes of conduct that govern professions and how they contribute to the process of ethical decisions making. Students will examine the Rid Code of Professional Conduct and apply its tenets to real-world

## INT3205: Interpreting and Transliterating Process

This course examines the processes of interpretation and transliteration as components of the overall task of interpreting. The task of producing appropriate ASL-to-English and English-toASL interpretations and the task of improving transliterating skills are central to the course. Students will examine how the separate processes stem from overarching interpreting models. The course is a practice-oriented course focusing on the beginning development of both interpretation and transliteration.

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## INT3270: Interpreting Process and Skill Development I

This course uses a process-oriented approach for applying the essential cognitive strategies to interpretation. These strategies include organizing and manipulating visual images, analyzing messages for meaning, and self-monitoring for message accuracy. The course serves as a transition from language learning to beginning interpretation from American Sign Language to English.

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## INT3271: Interpreting Process and Skill Development II

Prerequisite: INT 3270 Interpreting Process and Skill Development I This course is designed to develop a clear understanding of the process of interpreting and the development of competencies in interpretation and transliteration. The course utilizes interactive discussions, small group practice, and hands-on learning activities to introduce the study of the interpreting process.

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## INT3280: Interpreting Skills Lab

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This course is a hands-on, interactive course that will provide opportunity for practice of interpreting with ongoing mentoring and feedback. Progress towards mastering the competencies outlined by the NCI will be monitored.

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INT3301: Interpreting Assessment Preparation: Knowledge
Through interactive discussions, cooperative learning, and application of critical thinking skills, students will explore the components of the National Interpreter Certification process. Students will examine the task, knowledge and skill statements as defined by the National Council on Interpreting. Focus will be on the application of the statements to the field of interpreting and preparation for the NIC Knowledge test.

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## INT3302: Interpreting Assessment Preparation: Performance

Prerequisite: INT 3301 This course is a practice-oriented skill enhancement course. Through hands-on practice and simulated interpreting situations, students will integrate the skills outlined in the National Interpreter Certification process. Students will practice the skills defined by the National Council on Interpreting. Focus will be on the application of the skills set to the process of interpreting and preparation for the NIC Performance test.

Description: This course is one of two service-learning options that is designed to strengthen the student's ability to acculturate to the rich linguistic and cultural characteristics of the Deaf community through civic engagement. Students will participate in structured experiential settings that are located by their investigation of community needs. Students will design a service-learning project that is responsive to needs of Deaf children and reflect upon the learning process through journaling and faculty mentorship.

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## INT3951: (CD)Serv Lrng Deaf Community

Description: This course is one of two courses designed to strengthen the student's ability to acculturate to the rich linguistic and cultural characteristics of the Deaf community through civic engagement. Students will participate in structured experiential settings that are located by their investigation of community needs. Students will collaborate with community partners to design a service-learning project that is responsive to community needs and adequately reflected upon through reflective journaling and faculty mentorship.

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## INT4272: Advanced Interpreting Process and Skill Development I

Prerequisite: INT 3271 Interpreting Process and Skill Development II This course is designed to develop a clear understanding of the process of interpreting and the development of competencies in interpretation and transliteration. This course utilizes interactive discussions, small group practice, and hands-on learning activities to enhance students' ability to move from source language to target language interpretations and transliterations.

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## INT4273: Advanced Interpreting Process and Skill Development

 3 IIPrerequisite: INT 4272 Advanced Interpreting Process and Skill Development I This course is designed to develop a clear understanding of the process of interpreting and development of competencies in interpretation and transliteration. This course primarily uses hands-on learning activities to allow students the opportunity to deliver linguistically and culturally equivalent messages between source language messages and target language interpretations and transliterations.

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## INT4455: Interpreting for Diverse Populations

This course will explore interpreting for diverse and special populations including, but not limited to, individuals who are deaf/blind, individuals with minimal language skills, and individuals with additional disabilities. Through current research, case studies, in-class discussions, role-playing, and observations, students will explore how the interpreter's role and function may differ depending on the individuals in the interpreting process.

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This course will explore interpreting in a variety of special settings. Through current research, case studies, in-class discussions, role-playing, and observations, students will explore how setting impacts the delivery of interpreting services and the role of the interpreter. This course involves field observations.

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## INT4910: Research in Interpreting

This course introduces students to both current research in the field of interpreting and conceptualizing research projects in topic areas of personal interest. Students are mentored through problem identification, research design, literature review, instrument construction, data collection, and analysis. The goal of the course is to demonstrate to students the benefit of active research in their pursuit of excellence as interpreters. Research projects may lead to manuscript preparation, publication, and presentation.

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## INT4945: Interpreting Practicum I

This course is field-based and requires supervised, mentored experiences in the field as an interpreter. Through the practicum, students have ongoing opportunities to apply classroom learning and theory with real-world interpreting. This course requires 100 hours of field-based experiences.

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## INT4947: Interpreting Practicum II

Prerequisite: INT 4945 This course is field-based and requires supervised, mentored experiences in the field as an interpreter. Through the practicum, students have ongoing opportunities to apply classroom learning and theory with real-world interpreting. This course requires 200 hours of field-based experiences.

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## LDR3240: Intergroup Dialogue Among Diverse Populations

Intergroup Dialogue Among Diverse Populations is designed to provide foundational skills in knowledge needed to participate in and facilitate multicultural group interactions. This course assumes that the most effective facilitators of multicultural group interactions possess a level of awareness, skill, knowledge, and passion. The topics of this course include social identity development; prejudice and stereotyping and their effects on groups; difference and dominance and the nature of social oppression; basic group facilitation skills and their applications in multicultural settings. The course addresses these and other topical areas through readings, videos, facilitated in-class dialogues, activities, simulations, role-plays, and reflective journal and writing assignments.

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## Graduate Courses

## Clinical and Applied Movement Sciences

## Course Descriptions:

## APK5332: Pharmacology for Chronic Diseases

Description: This course will present current knowledge related to the pharmacokinetics and pharmacodynamics of common drugs related to chronic disease patient management. This course will focus on pharmacotherapy for todayâ $€^{\text {TM }}$ most prevalent chronic conditions. Additionally, the course will explore the influence of exercise and physical activity.

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## APK6056: Advanced Biostatistics in Epidemiology

## Prerequisite: HSC 6512

Description: This course will cover linear modeling, multiple regression, correlation and residual analysis. Analysis of covariance (ANCOVA), one-way analysis of variance (ANOVA), two-way ANOVA, randomized-blocks, repeated measures, factorial designs and multiple comparisons will be covered. Advanced concepts in study design will be covered along with a strong emphasis on secondary data analysis. Students will learn advanced procedures utilizing appropriate statistical software (e.g., SAS and SUDAAN).

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APK6057: Research Methods in Physical Activity
Prerequisite: HSC 6512
Description: This course will teach students how to develop a scientific question, conduct an literature review, choose a study design, manage and analyze data, and write scientific abstracts and manuscripts.

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## APK6107C: Cardiovascular Exercise Physiology and ECG

Prerequisite: APK 4120C and HSC 4612
Description: This course will examine healthy and pathological cardiovascular physiology. This course will cover advanced diagnostic and exercise testing techniques including 12-lead electrocardiography interpretation. Assessment, primary, secondary and tertiary care options for cardiovascular health will also be covered.
Course Fees: \$30
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## APK6111: Advanced Exercise Physiology and Metabolism

Prerequisite: HSC 4612 and HSC 4615L
Description: This course will present advanced physiological processes in the field of exercise physiology and exercise metabolism. The course will focus on mobilization and utilization of glucose, lipids, and protein during exercise. Additionally, the course will examine metabolic

## APK6116C: Exercise Physiology and Laboratory Techniques

Prerequisite: HSC 4612 or PET 3351C
Description: This course will present the physiological processes in the field of exercise physiology. The course will focus on cardiorespiratory fitness, energy balance, body composition, metabolism, and muscle physiology. The laboratory experiences will focus on metabolic testing (VO2, resting metabolic rate, lactate, thermoregulation), contrasting various body composition methodology, and exercise prescription.

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## APK6327: Seminar in Exercise Science and Chronic Disease

Description: This seminar will include selected topics in exercise science, chronic disease, and physical activity epidemiology.

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## APK6336: Physical Activity Epidemiology and Evidence Review

Prerequisite: PET 3080 or HSC 3500
Description: This course will examine the associations between various chronic diseases and exercise, physical activity and fitness. This course will integrate selected scientific studies and the learner will be able to distinguish study designs and explain study findings in a group setting. The learner will write scientific critiques for selected studies demonstrating their ability to evaluate study designs, methodology, data analysis, and findings.

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## APK6942: Internship or Project in Exercise Science and Chronic Disease

Description: The internship experience will provide an opportunity to gain experience in a specific area of career interest in exercise science and chronic disease. The project option will provide an opportunity for the student to conduct a guided comprehensive literature review on an approved topic of their choice leading to the submission of a review paper for publication in a peer-reviewed journal.

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## APK6972: Thesis in Exercise Science and Chronic Disease

Prerequisite: HSC 6906 and APK 6057 and APK 6336 and PHC 6050
Description: Students choosing to complete a thesis may do so over two semesters. The thesis project must be a hypothesis-based original research study or a hypothesis generating descriptive study utilizing a secondary data-analysis approach. The student must successfully complete HSC 6906 prior to enrolling in APK 6972. For the thesis option, students are required to submit a revised proposal (an update of the HSC 6906 proposal) for review and approval by the faculty adviser and chosen thesis committee one month prior to the beginning of the term. Students must meet with the faculty adviser periodically to discuss project progression. Graduation with a thesis is contingent upon the approval of the thesis committee. Thesis students will be required to present their final project to their faculty committee both
orally (thesis defense) and in writing.
Repeatability: May be repeated two times or six credits may be taken simultaneously.
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## PHT5005: Professional Practice Issues

This course addresses trends and issues relevant to contemporary practice of physical therapy. Topics will include scope of legal/ethical practice; documentation of medical information; the variety of roles/work environments served by physical therapists; context of health care delivery; role of other health professionals; and areas of controversy within the profession. Major emphasis will be on increasing knowledge and skills in developing helping and healthy relationships and in communicating effectively with patients and others.

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## PHT5257C: Clinical Skills

This course provides an introduction to clinical problem solving, physical assessment, posture screening and procedures of patient mobility. Basic evaluation tools and intervention strategies will be introduced. The course also emphasizes the importance of communication skills. (A laboratory fee of $\$ 15$ assessed.)

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## PHT5806: Clinical Practicum

Prerequisites: Successful completion in previous courses in the DPT curriculum This course is designed to facilitate the integration of clinical skills taught in the academic setting, to allow students to observe and practice those skills in a clinical environment, and to assist students in developing a better understanding of the roles and responsibilities of the physical therapist in clinical settings.

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## PHT6110C: Gross Anatomy for Physical Therapists

Prerequisite: Admission to the Physical Therapy Program This course will be a detailed study of the human body through lecture, laboratory presentations, and cadaver dissection using a regional approach. The primary focus of this course will be on gross anatomy and the relationships between the musculoskeletal, neurological, and vascular systems of the human body. The anatomy of the head and neck, viscera and pelvic floor will also be emphasized. In addition, the course will introduce the student to surface anatomy and normal radiological anatomy.(A laboratory fee of $\$ 170$ assessed.)

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## PHT6126C: Kinesiology

Prerequisite: Admission to the Physical Therapy Program This course will be an introduction of the understanding and examination human motion. The concepts and terminology from biomechanics and kinesiology will be used to explain human motion with an emphasis on the neuromuscular control of joint motion and muscle function. A regional approach to the body will explore extremity and trunk movements of functional activities such as walking, squatting, and reaching. Kinesiological and biomechanical concepts presented will be the foundation for physical therapy examination and intervention. (A laboratory fee of $\$ 25$ will be assessed.)

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Prerequisite: Successful completion of previous courses in the DPT curriculum This foundational science course will present normal physiology of all the major body systems with emphasis on topics directly related to physical therapy. Basic molecular, genetic and biochemical principles will also be discussed when relevant to the practice of physical therapy. (A laboratory fee of $\$ 25$ will be assessed.)

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## PHT6161C: Neuroscience I: Clinical Neuroanatomy/Physiology

Prerequisite: Successful completion of previous courses in the DPT curriculum. This course provides and integrative, but concise study of the normal structure and function of the human central and peripheral nervous systems, as well as the pathophysiological mechanisms underlying nervous system dysfunction presented as clinical correlations. This study will provide students with a basis for physical therapy examination, evaluation, and intervention for patients with neurological involvement. Didactic presentations will be supplemented by laboratory sessions to increase understanding of the three dimensional anatomy of the central nervous system.(A laboratory fee of $\$ 100$ assessed.)

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## PHT6191C: Neuroscience II: Motor Control and Learning

Prerequisite: Successful completion of previous courses in the DPT curriculum Basic neurophysiological and neuropsychological constructs regarding the function of the nervous system are explored. An in-depth review of the cellular level functions are provided. Analyses of normal systems are contrasted with abnormal systems. In depth review of theories and constructs of motor control and motor learning are provided. Particular emphasis is placed on the systems and mechanisms involved in human motor control, function and learning, assessment of the same, and the basis for diagnosis and treatment selection by physical therapists.

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## PHT6218C: Theraputic Modalities

Prerequisite: Successful completion of previous courses in the DPT curriculum. This course is designed to instruct physical therapy students in the underlying principles and clinical applications of thermal, electrical, and mechanical modalities. An emphasis will be placed on problem-solving skills and patient education using these modalities. The focus of laboratory sessions is to demonstrate safe and appropriate clinical application of thermal, electrical, and mechanical modalities. Use of these modalities to address the treatment of clinical symptoms including inflammation, muscle re-education, pain, and other dysfunctions will be discussed. A presentation with an emphasis on evidenced-based practice on a chosen modality will be required. Competencies for each modality must be successfully completed prior to both the written and practical examinations.(A laboratory fee of $\$ 15$ assessed.)

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## PHT6267C: Examination and Intervention

Prerequisite: Successful completion of previous courses in the DPT curriculum This course is a study of basic physical therapy clinical skills related to recognition, examination, and intervention of disorders and injuries of the neuromusculoskeletal system. Foundational concepts and basic skills essential in the physical therapy management of clients will be introduced and applied consistent with the ICF and the Guide to Physical Therapy Practice. Emphasis of the course will be on Examination and Intervention with attention to additional components of patient management: Evaluation, Diagnosis, Prognosis and Outcomes. (A laboratory fee of $\$ 25$ will be assessed.)

## PHT6303C: Applied Pathophysiology

Prerequisite: Successful completion of previous courses in the DPT curriculum This course will examine specific pathological conditions common to the practice of physical therapy.
Underlying physiological alterations and the physical consequences of such alterations will be reviewed. Treatment rational, in terms of medical management and physical therapy management, will also be discussed. Conditions covered in this course will cross the lifespan from infancy to advanced age. And, although not the focus of this course, differential diagnosis will be an important topic. (A laboratory fee of $\$ 25$ will be assessed.)

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## PHT6314C: Neurology I: Pathology, Examination and Intervention

Prerequisite: Successful completion of previous courses in the DPT curriculum. This course will examine specific pathological conditions common to the practice of physical therapy. Underlying physiological alterations and the physical consequences of such alterations will be reviewed. Treatment rational, in terms of medical management and physical therapy management, will also be discussed. Conditions covered in this course will cross the lifespan from infancy to advanced age. And, although not the focus of this course, differential diagnosis will be an important topic. (A laboratory fee of $\$ 25$ will be assessed.)

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## PHT6318C: Orthopedic Physical Therapy I: Extremities

Prerequisite: Successful completion of previous courses in the DPT curriculum. This course is an in-depth study in the recognition, examination, and intervention of disorders and injuries of the musculoskeletal system through the life span, with emphasis on the upper and lower extremities. A problem solving approach is followed with application of the disablement model and evidence-based practice in the management of impairments of the extremities and inclusion of the following elements of patient/client management: examination, evaluation, diagnosis, prognosis, and intervention. Lab sessions focus on specialized examination and intervention skills, including the performance of joint-specific special tests, joint mobilization techniques, orthotics, and impairment-specific therapeutic exercises.(A laboratory fee of $\$ 25$ assessed.)

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## PHT6354C: Pharmacology

Prerequisite: Successful completion of previous courses in the DPT curriculum This course will present current knowledge related to the pharmacokinetics and pharmacodynamics of common drugs related to the physical therapy patient management. The course will examine the factors that influence drug absorption, distribution, and elimination. Emphasis will be placed upon the determinants of how a specific dose of a drug will eventually reach target tissues and exert a response. Additionally, the course will explore influence of exercise, application of physical agents, and massage on normal pharmacokinetics.

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## PHT6553C: Physical Therapy Resid: Applied Principles Clini Practice I

Prerequisite: Enrollment into the Masters in Health -(Track: Orthopedic Physical Therapy) Program This course is an advanced study into the clinical and professional expectations of a resident and expert clinician. The role of medical and diagnostic screening in the care and management of patients with neuromusculoskeletal disorders will be the emphasis of this course

# PHT6554C: Physical Therapy Resid: Applied Principles Clinical Pract II <br> Prerequisite: Enrollment into the Masters in Health -(Track: Orthopedic Physical Therapy) Program This course is an advanced study into the roles of a physical therapist as a clinician, a professional, a manager, a researcher, and an educator. Study of clinical skills will focus on models of clinical reasoning including evidence-based practice. Principles of professionalism and management will be applied in and professional environments. The role of clinical inquiry will be explored with application of principles of patient care. Educational theory will be studied with application to various teaching-learning settings. 

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## PHT6606C: Clinical Inquiry I

Prerequisite: Successful completion of previous courses in the DPT curriculum This course presents an introduction to principles of clinical inquiry, specifically related to the development of clinically related questions and the process of answering the developed questions. Students are encouraged to compose questions in the context of contemporary health care and physical therapy. Topics covered include critical thinking, the process of reviewing scientific literature, an introduction to information searching, discussion of reliability and validity and the processes of scientific documentation. An introduction to research designs, research methods, and basic data analysis will be explored as well as an overview of experimental and non-experimental research designs. Critique of the scientific literature with application of the literature in evidence-based practice will be an element of all future clinical management courses.

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## PHT6607C: Clinical Inquiry II

Prerequisite: Successful completion of previous courses in the DPT curriculum This course is the second in a three part series regarding the principles of clinical inquiry. The objective of the series is to prepare the graduate to critically analyze and use the scientific literature to improve clinical practice, relative to clinical research, education, and/or administration. In this unit, students will work with specific faculty to implement the proposed project developed in unit one of the series. Topics covered include: problem solving, research design, advanced research methods and data analysis. Specifically, quantitative, qualitative and survey outcomes and advanced clinical research design methods will be explored. Students will review all aspects of data handling to include development of data logs, data entry, statistical analysis and interpretation of the analysis.

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## PHT6734: Physical Therapy Management of the Integument

Prerequisite: Successful completion of previous courses in the DPT curriculum Students apply anatomy, physiology, epidemiology and pathology in exploring the issues of medical, surgical, pharmacological, and psychological and physical therapy management of individuals throughout the lifespan with Integumentary system impairments. Students will develop examination skills and derive diagnoses; prognoses, evaluations and effective physical therapy interventions based on relevant evidence.(A laboratory fee of $\$ 25$ will be assessed.)

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described. Students develop an understanding of the roles of the Academic Coordinator of Clinical Education (ACCE), the Center Coordinator for Clinical Education (CCCE), the Clinical Instructor (CI), and their own roles in the clinical education process. Students develop an understanding of various clinical education models and learn how they will be evaluated using the Clinical Performance Instrument (CPI). Students learn to write educational objectives for clinical education experiences and to prepare in-services to meet the needs of their clinical supervisors.

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## PHT6819C: Clinical Internship I

Prerequisite: Successful completion of previous courses in the DPT curriculum Clinical Internship I is a full-time six week clinical internship experience. Students may be placed in inpatient hospital or rehabilitation settings, outpatient clinics, and/or skilled nursing facilities. Patients with orthopedic, musculoskeletal, neurological, and/or cardiopulmonary diagnosis may be encountered. Under direct supervision, and with the clinical instructor's assistance, the student will integrate all prior academic work. Students will apply basic physical therapy examination techniques and initiate treatment activities with non-complicated patients. Students will practice in accordance with the American Physical Therapy Association Code of Ethics and Guide to Physical Therapist Practice; the practice act of the state in which they are assigned; and according to the policies and procedures of the individual facility where they are assigned.(A laboratory fee of \$30 assessed.)

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## PHT6823C: Clinical Internship II

Prerequisite: Successful completion of previous courses in the DPT curriculum Clinical Internship II targets a variety of clinical experiences based upon facility availability. Student assignments are individualized and based on the students? areas of clinical interest, academic performance, and prior clinical education experiences and clinical performance. Patients with orthopedic, musculoskeletal, neurological, and/or cardiopulmonary diagnosis may be encountered. Experiences in these settings will provide the student with an opportunity to apply the knowledge and skills acquired in the classroom to any patient referred to physical therapy. Under the direct supervision of a clinical instructor, the student will begin to advance their hands-on clinical skills and further develop their critical thinking abilities. Students will practice in accordance with the practice act of the state in which they are practicing and according to the policies and procedures of the individual facility where they are assigned. (A laboratory fee of $\$ 30$ will be assessed.)

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## PHT6824C: Clinical Internship III

Prerequisite: Successful completion of previous courses in the DPT curriculum Clinical Internship III targets a variety of clinical experiences based upon facility placement and patient population. Student assignments are individualized and based on the students? areas of clinical interest, academic performance, and prior clinical education experiences and clinical performance. Students may be placed in inpatient hospital or rehabilitation settings, outpatient clinics, skilled nursing facilities, school or home care settings and/or other specialty practices. Patients with orthopedic, musculoskeletal, neurological, and/or cardiopulmonary diagnosis may be encountered. Experiences in these settings will provide the student with an opportunity to apply the knowledge and skills acquired thus far in the academic portion of the curriculum to any patient referred to physical therapy. The actual procedures and sequence of experiences will vary from student to student and will be determined by the nature of the patients available and the type of clinical setting. Under the direct supervision of a clinical instructor, the student will begin to advance their hands-on clinical skills and further develop their critical thinking abilities. Students will practice in accordance with the American Physical Therapy Association Code of Ethics and Guide to Physical Therapist Practice; the practice act of the state in which they are practicing; and according to the policies and procedures of the individual facility

# PHT6916: Projects 

Under the direction of graduate faculty, the student will design, implement, and/or participate in an approved project. May be repeated up to 7 hours.

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#### Abstract

PHT6940C: Advanced Clinical Residency Prerequisite: PHT 6553C This course is an internship experience in a specialized area of physical therapy. Experience in clinical settings will provide the student with an opportunity to apply the knowledge and skills acquired in the classroom to patients encountered in the clinic. Procedures and sequence of experiences will vary from student to student and will be determined by the nature of the patients available and the type of clinical setting. Under the direct supervision of a clinical instructor, students will advance their hands-on clinical skills and further develop their critical thinking abilities. Students will practice in accordance with the practice act of the state in which they are practicing and according to the policies and procedures of the individual facility where they are assigned.


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## PHT7009C: Differential Diagnosis

Prerequisites: Successful completion of previous courses in the DPT curriculum. This course focuses on differential diagnosis and advanced clinical reasoning in physical therapy practice. Emphasis is on recognition of real and potential patient problems as a basis for screening and appropriate treatment and referral. Content includes systems review using case presentations of differential findings in relation to musculoskeletal pathologies. Other major topics include wound care, women's health, pharmacology, and psychology of pain. This is a capstone course, preparing students for practice in direct access environments.

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## PHT7141C: Lifespan Geriatrics/Pediatrics

Prerequisite: Successful completion of previous courses in the DPT curriculum This course includes two modules that provide study of the special needs and requirements for the provision of physical therapy to the pediatric and geriatric populations. Discussion of third party payers, unique service locations (e.g. schools, nursing home), and the laws pertaining to these populations is included. Consultation and site visits for evaluation and treatment planning of specific patients are components of this course.

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## PHT7183C: Orthopedic Physical Therapy II: Spine and Occupational Health

Prerequisite: Successful completion of previous courses in the DPT curriculum. This course is an in-depth study related to examination and intervention of disorders and injuries of the musculoskeletal system with emphasis on the axial skeleton including temporomandibular joints. Course includes concepts of functional spinal units, interrelationship of group lesions on normal and dysfunctional biomechanics, therapeutic intervention outcomes, and current theories of spinal mechanics. Lab sessions focus on specialized examination and intervention skills, including spinal joint mobilization techniques. Students will gain skills related to the responsibilities and roles of physical therapists in addressing health-related issues within the
community, particularly occupational health. Consultation with local industry with completion of an ergonomic analysis is a component of this course.(A laboratory fee of $\$ 25$ assessed.)

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## PHT7315C: Neurology II: Advanced Examination and Intervention

Prerequisite: Successful completion of previous courses in the DPT curriculum This course includes current motor control and motor learning principles as applied to individuals with neurological disorders. Facilitation of improved motor function is a primary goal of this course. Students will learn the theories, philosophies of a variety of treatment strategies and be able to discuss and integrate the appropriate use of each strategy. This course will require the student to utilize information learned from previous and current course material to apply to clinical patient simulated scenarios. The application of critical thinking skills will be emphasized. (A laboratory fee of $\$ 25$ will be assessed.)

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## PHT7385C: Exercise Physiology/Cardiopulmonary Physical Therapy

Prerequisite: Successful completion of previous courses in the DPT curriculum. This course addresses exercise physiology principles as relate to normal and clinically compromised populations. Emphasis is evaluation and treatment skills for cardiopulmonary dysfunction. Exercise prescription for special populations is addressed. (A laboratory fee of $\$ 25$ will be assessed.)

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## PHT7551: Leadership in Physical Therapy

Prerequisite: Successful completion of previous courses in the DPT curriculum This course is designed to provide the student with the knowledge required for dealing successfully with the day-to-day demands physical therapists face or will face as they pursue their careers. The management and leadership principles presented are universal and applicable to multiple physical therapy practitioner settings. Key management and leadership concepts are related to physical therapy practice at both the organizational and clinical departmental level.

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## PHT7617C: Clinical Inquiry III

Prerequisite: Successful completion of previous courses in the DPT curriculum. This course is the final in a three part series regarding clinical inquiry. The outcome of the series is a project related to clinically-relevant research, education, or administration. Within this portion, students will complete their project/scholarly activity and prepare results for presentation. In addition, the realities of inquiry will be discussed to include: time demands, funding, and policy. A significant portion of the course is independent study, in which the students are preparing the final report of their specific project.

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## PHT7741C: Spinal Cord Injuries and Prosthetics

Prerequisite: Successful completion of previous courses in the DPT curriculum This course will have two units. Unit one will focus on the neuropathology, examination, evaluation, physical therapy diagnosis, prognosis and intervention of spinal cord injured persons. Medical/pharmacological management of the spinal cord injured person will be discussed. Laboratory sessions will focus on clinical treatment skills and techniques. A home evaluation
assignment will be required. Group assignments will emphasize current literature. Unit two will focus on the pathology, examination, evaluation, physical therapy diagnosis, prognosis and intervention of patients with upper and lower limb amputations. Functional mobility training of patients with an amputation both with and without a prosthesis will be emphasized. A review of lower extremity biomechanics and gait training will also be part of this course. (A laboratory fee of $\$ 25$ will be assessed.)

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## PHT7773C: Ortho PT Residency: Advanced Management-Spine

Prerequisite: PHT 6553C This course is an in-depth study in the recognition, examination, and intervention of disorders and injuries of the musculoskeletal system with emphasis on the spine. Using a problem-solving approach, students will learn to apply evidence-based practice and functional models, including the following elements of patient/client management: examination, evaluation, diagnosis, prognosis, and intervention. Sessions focus on advanced examination and intervention skills, including the performance of joint-specific special tests, manual therapy techniques, orthotics, and impairment-specific therapeutic exercises. Clinical reasoning skills for the advanced orthopedic physical therapist will be emphasized throughout the course.

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## PHT7774C: Ortho PT Residency: Advanced Management-Lower Extremity

Prerequisite: PHT 6553C This course is an in-depth study in the recognition, examination, and intervention of disorders and injuries of the musculoskeletal system, with emphasis on the lower extremity. Using a problem-solving approach, students will learn to apply evidencebased practice and functional models, including the following elements of patient/client management: examination, evaluation, diagnosis, prognosis, and intervention. Sessions focus on advanced examination and intervention skills, including the performance of joint-specific special tests, manual therapy techniques, orthotics, and impairment-specific therapeutic exercises. Additionally, clinical reasoning skills will be emphasized throughout the course.

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## PHT7775C: Ortho PT Residency: Advanced Management-Upper Extremity

Prerequisite: Enrollment into the Masters in Health -(Track: Orthopedic Physical Therapy) Program This course is an in-depth study in the recognition, examination, and intervention of disorders and injuries of the musculoskeletal system, with emphasis on the upper extremity. Using a problem solving approach, students will learn to apply evidence-based practice and functional models, including the following elements of patient/client management: examination, evaluation, diagnosis, prognosis, and intervention. Sessions focus on advanced examination and intervention skills, including the performance of joint-specific special tests, manual therapy techniques, orthotics, and impairment-specific therapeutic exercises. Additionally, clinical reasoning skills will be emphasized throughout the course.

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## PHT7825C: Clinical Internship IV

Prerequisite: Successful completion of previous courses in the DPT curriculum Clinical Education IV targets a variety of clinical experiences based upon facility placement and patient population. Student assignments are individualized and based on the students? areas of clinical interest, academic performance, and prior clinical education experiences and clinical performance. Students may be placed in inpatient hospital or rehabilitation settings, outpatient clinics, skilled nursing facilities, school or home care settings and/or other specialty practices.

Experiences in these settings will provide the student with an opportunity to apply the knowledge and skills acquired throughout the curriculum to any patient referred to physical therapy. Under the direct supervision of a clinical instructor, the student will begin to advance their hands-on clinical skills and further develop their critical thinking abilities. Students will practice in accordance with the American Physical Therapy Association Code of Ethics and Guide to Physical Therapist Practice. (A laboratory fee of $\$ 30$ will be assessed.)

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## PHT7826C: Clinical Internship V

Prerequisite: Successful completion of previous courses in the DPT curriculum Clinical Internship V is a clinical education patient experience prior to graduation. This experience provides students with the opportunity to meet entry level requirements to practice as a physical therapist. Students continue to practice examination, evaluation, intervention, documentation, consultation and administrative skills under the supervision and guidance of a licensed physical therapist, but are expected to function at the level of a new graduate by the completion of this experience. Student assignments are individualized and based on the students? areas of clinical interest, academic performance, and prior clinical education experiences and clinical performance. Students may be placed in inpatient hospital or rehabilitation settings, outpatient clinics, skilled nursing facilities, school or home care settings and/or other specialty practices. Patients with orthopedic, musculoskeletal, neurological, and/or cardiopulmonary diagnosis may be encountered. Through reflective journal writing students will further develop their self-assessment skills as they begin to transition from the role of student to that of an entry-level doctorally prepared physical therapist. Students will practice in accordance with the American Physical Therapy Association Code of Ethics and Guide to Physical Therapist Practice; the practice act of the state in which they are practicing; and according to the policies and procedures of the individual facility where they are assigned. (A laboratory fee of $\$ 30$ will be assessed.)

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## PHT7880C: Advanced Clinical Integration

Prerequisite: PHT 6553C This is a capstone course integrating the didactic and clinical information learned throughout earlier stages of the program. Emphasis will be on the integration of the various regions of the neuromusculoskeletal system and principles of advanced clinical practice.

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Prerequisite: Successful completion of previous courses in the DPT curriculum Students, with instructor consent, may explore topics of interest within physical therapy specialty areas. Particular attention is given to topics related to applications in teaching, consultation, research, practice, and administration.

## Graduate Courses

## Nutrition and Dietetics

## Course Descriptions:

## DIE6127: Advanced Administration of Food and Nutrition Services

Prerequisite: Undergraduate Nutrition Degree or Equivalent. This course equips graduate students and practicing dietitians with leadership and management skills needed to establish and maintain effective food and nutrition programs in the future. Food service and clinical nutrition management is addressed so students can adapt to a changing healthcare environment.

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DIE6248: Clinical Nutrition
Prerequisites: HSC 4572, MCB 2013C, CHM 2045C. This course is designed to provide the advanced student with knowledge of current relevant research and its application to the clinical setting.

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## DIE6900: Dietetics Readings and Conference <br> v. 1-

The course involves in-depth readings and group discussions and conferences on selected topics or critical issues in the dietetics field. The readings will vary but will involve a formal survey of the literature and presentation of findings.

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## DIE6906: Dietetics Independent Study and Research

v. 3-

9

Prerequisite: Permission of Department Chair This course involves design and completion of a specific dietetics research project conducted under the guidance of a faculty member. It may be repeated up to 15 credits.

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DIE6912: Projects in Nutrition and Dietetics
v. 3-

9
This course involves the development, implementation, or participation in conducting a designated project related to dietetics. May be repeated for up to 12 credits.

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This course is a detailed study of a topic in the dietetics field. Topics will vary each time the course is offered and will be based on the need to address a current dietetics issue or topic in detail. Students should refer to the "Schedule of Courses" or the department for further information. The course may be repeated for up to 12 credits with a change in course content.

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## DIE6940: Clinical Practice in Nutrition and Dietetics

This course is designed to provide a supervised clinical experience in dietetics that develops and enhances the entry level competencies in food service, clinical, community, and specialty practice. It may be repeated up to 15 credits.

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## DIE6945: Dietetics Field Experience <br> v. 3-

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Prerequisite: Approval of the Department Chairperson This course provides field experience in dietetics. Students are required to complete 10 hours per week in their field experience ( 150 hours) per semester for each 3 credits. This course also requires that students give a presentation to faculty and site supervisors summarizing the work in the field.

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DIE6970: Thesis
v. 3-

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Prerequisite: Permission of the Department Chair and consent of faculty member directing thesis work.Under the direction of a faculty member, the student designs, executes, and prepares for professional presentation a clinical, community or food service dietetics research project. May be repeated up to 27 hours maximum.

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## HSC6509: Nutritional Epidemiology

This course teaches history, concepts, skills, and research designs and methods relevant to nutrition epidemiology. The course reviews nutritional epidemiology research related to mortality and morbidity and describes how this research relates to public health dietary recommendations and nutrition and dietetic practice.

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HSC6934: Seminar

Students will present and attend seminars conducted by faculty and other students. Seminars will focus on faculty and student interests in the health field.

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HUN5265: Methods of Nutritional Assessment
Prerequisites: HSC 4572, BCH 3023C, CHM 1025C. Study of methodology, skills and tools in measurement of the nutritional status of healthy individuals in community, patients in the hospitals, or study subjects are extensively studied. The objectives of nutritional assessment of individuals is defined in prevention of malnutrition and intervention methods used in treatment of nutritional deficiencies.

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Prerequisites: HSC 4572 and DIE 3213 or permission of instructor. Examination of the nonnutritional factors that influence nutrition. The course will cover evolution of diet, food selection, persistence and change, psycho-social, structural and symbolic aspects of food choices and their relationship to nutrition.

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#### Abstract

HUN6285: Nutrition and Metabolism I Prerequisites: HSC 4572 and BCH 3023C. Biochemical function of nutrients, biological variability and adaptation, macro-nutrient metabolism, energetics, food thermogenesis, mitochondrial oxidation, production and storage of energy are studied. Carbohydrates, lipids, and proteins, cholesterol, phospholipid, omega-3 fatty acids, prostoglandins, and other recently described essential nutrients are covered.


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HUN6331: Nutrition and Metabolism II
Prerequisite: HUN 6285 Biochemical function and metabolism of micronutrients, function and nature of the vitamins, biosynthesis and metabolism of enzymes, vitamins, their regulatory role as coenzyme and essentiality, bioavailability of minerals, and other recently described essential nutrients are covered. Biochemical basis for deficiency and toxicity of micronutrients are explored.

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HUN6522: Advanced Public Health Nutrition
Prerequisite: HUN 2201 or equivalent course. Students will describe and critique existing nutrition programs, evaluate the positive and negative impact of public health nutrition initiatives, and examine the role of legislative, political processes and social marketing processes in achieving social nutrition goals.

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HUN6612: Nutrition Education and Counseling
Prerequisite: HUN 3601 or undergraduate education foundation or theories course or nutrition counseling course, or approval of instructor. Students will examine different approaches to nutrition education and develop materials and presentations. They will conduct and critique mock interviewing and counseling sessions to persons with different nutrition needs and evaluate follow-up and evaluation techniques.

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HUN6910: Nutrition and Dietetics Research
Prerequisite: HSC 4730 Foundations of Health Science Research This course teaches the investigative and analytical methods used in nutrition and dietetics related research. The course reviews research design, sampling techniques, data collection and processing, and interpretation of the results and ethics. The course includes synthesis of findings within the research for application to clinical practice.

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This course is a culminating experience in which students demonstrate expertise in a selected line of inquiry related to nutrition and dietetics research. Students will present a peer and faculty reviewed professional presentation. Students must also successfully pass a mock Registration examination to demonstrate expertise in all areas of the discipline. The course may be repeatable up to 6 credits.

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HUN6916: Advanced Concepts in Nutrition and Dietetics
Prerequisites: HUN 2201, BCH 3023C, CHM 1025C An analysis of current research on nutritional concerns relevant to public health practice. Included are nutrition policy and nutrition program design, community food and nutrition programs, and advanced strategies of nutrition education.

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PHC6525: Advanced Concepts of Nutrition and Health
Prerequisites: HSC 4572, BCH 3023C, CHM 1025C. An analysis of current research on nutritional concerns relevant to public health practice. Included are nutrition policy and nutrition program design, community food and nutrition programs, and advanced strategies of nutrition education.

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## Graduate Courses

## Nursing

## Course Descriptions:

## NGR5003C: Health Assessment and Diagnostics

Prerequisites: Admission to the MSN Program or consent of instructor. Pre or Corequisites: NGR 5141 and NGR 5192. Focuses on development of proficiency in assessment and interview skills in obtaining health history and physical examination. Identification of abnormal findings for treatment/referral is emphasized. Use of basic laboratory and diagnostic data to diagnose common uncomplicated health problems and acute illness or injury is included. (A laboratory fee of $\$ 175$ will be assessed.)

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## NGR5110: Theoretical Framework for Practice

Prerequisite: Admission to the MSN program. Corequisite: NGR 5810. Critique, evaluate, and utilize a wide range of theories from nursing and other sciences. Emphasis is on the synthesis of theories to develop a conceptual framework for the delivery of advanced nursing care.

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NGR5141: Advanced Pathophysiology
Prerequisite: Admission to MSN program or consent of instructor. Corequisite: NGR 5192. An advanced study of the normal physiologic and pathologic mechanisms of disease over the life span. Clinical application of pathophysiologic disorders will be emphasized.

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## NGR5172: Pharmacotherapeutics

Prerequisite: Admission to the MSN program or consent of instructor. Corequisite: NGR 5141. Review commonly prescribed drugs including pharmacokinetics, actions, uses, side effects, contraindications, dosage and routes. Special emphasis will be given to developmental considerations, preparing written prescriptions, safety, cost effectiveness, legal requirements and patient education. Students will be prepared to write protocols for prescriptive privileges following Nurse Practice Act guidelines.

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## NGR5601C: Advanced Nursing Practice I

Prerequisites: NGR 5001C, NGR 5141 and NGR 5192. Pre or Corequisite: NGR 5110. Introduction to advanced nursing practice of acute, self-limiting, common health problems of culturally diverse clients across the life span. Emphasis is on pathology, assessment, diagnoses, therapeutic modalities and evaluation related to management of selected acute health problems. (A laboratory fee of $\$ 15$ assessed.)

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Prerequisite: Admission to the MSN Clinical Nurse Leader program. This is the first of a series of seminars which examine the role of the clinical nurse leader. The course will include discussions of the various roles involved in interdisciplinary groups in healthcare and will focus on selected aspects of the clinical nurse leader role. Continuous quality improvement principles will be introduced and related to clinical outcomes management and cost-efficient care. Evidence-based practice will be emphasized within a framework that includes health promotion and disease reduction as well as illness and disease management.

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## NGR5780C: Clinical Nurse Specialist I

Prerequisite: NGR 5601C. The focus of this course is on the development of advanced nursing knowledge in a specialized area of practice. This course provides an opportunity for the learner to identify and explore acute and chronic health problems in an area of concentrated study: Adult Health; Child Health; Community Health; Geriatric Health; Mental Health; or Women's Health. The course will involve learners in the identification of the area of concentrated study and the planning, implementation, and evaluation of a personal learning plan for increasing knowledge and skills in this area. Learners will apply their advanced knowledge and skills in the clinical area.

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## NGR5810: Research Methods for Evidence-Based Nursing Practice

Prerequisite: Admission to the MSN program. Corequisite: NGR 5110. This course includes information related to research methodologies and evidence-based nursing practice. The focus is on application of scientific knowledge to advanced nursing practice. The emphasis is on skill development in critiquing, synthesizing and generating research evidence to address specific nursing practice questions or problems.

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## NGR5931: Special Topics in Nursing <br> 3

Post baccalaureate seminar on various topics.
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NGR5950: Culture and Health in Ireland
Prerequisite: Graduate student with an interest in health care. A nine-day international travel program to Ireland for UNF students. Focus is on the Irish health care system, arts and culture. This international study course will provide UNF students and members of the health care community the opportunity to spend one week in Ireland visiting cultural sites, attending presentations related to health care delivery in Ireland, and observing selected health care settings.

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## NGR6400: Chemistry and Physics of Anesthesiology Nursing I

Prerequisite: Admission to the Nurse Anesthetist Program. Detailed study of the biochemical and physical principles, which apply to physiology, pharmacology, and anesthesia equipment. Emphasis is placed on biochemistry and physics of gases and vapors.

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Prerequisite: NGR6400 This course is a continuation of the focus on the biochemical and physical principles required for understanding the mechanisms, actions, equipment, and theories as they apply to anesthesia practice.

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NGR6404: Advanced Bioscience for Anesthesiology Nursing I
Prerequisite: NGR 5141 This is a course in human anatomy, physiology, and pathophysiology to include the effects of anesthesia on the cell, the circulatory system, and the respiratory system.

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## NGR6405: Advanced Bioscience for Anesthesiology Nursing II

Prerequisites: NGR 6404 This is a course in human anatomy, physiology, and pathophysiology to include the effects of endocrine, neurological, orthopedic, excretory, and digestive systems on anesthesia management.

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## NGR6421: Principles of Anesthesiology Nursing I

Prerequisites: Admission to the Nurse Anesthetist program This course is a broad field orientation to advanced nursing practice. Study of the areas of pre, intra, and postanesthesia planning, monitoring, and record keeping are included.

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## NGR6422: Principles of Anesthesiology Nursing II

Prerequisites: NGR 6421 The course will emphasize the anesthetic management of the pediatric, geriatric, and obstetrical patient. The course will review the specific anesthetic needs for each specialty.

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NGR6423: Principles of Anesthesiology Nursing III
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Prerequisites: NGR 6422 This course covers principles of cardiothoracic anesthesia, preoperative assessment, pre, intra, and postoperativve management, extracorporeal circulation, cardiac assist devices, and pharmacological intervention.

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## NGR6424: Principles of Anesthesiology Nursing IV

Prerequisites: NGR 6423 This course covers principles of emergency and trauma management, as well as anesthesia specialty procedures related to orthopedics and neurosurgery.

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Prerequisites: Admission to the Nurse Anesthetist program This experience is an introduction to the clinical art and science of anesthesiology nursing. It introduces the clinical component of the anesthesia management techniques. This includes supervised clinical practice. (A

Prerequisites: NGR 6431L This course is the second in an increasingly more complex sevencourse series that includes clinical anesthesia administration under the direct supervision of a CRNA and/or an anesthesiologist instructor. (A laboratory fee of $\$ 2000$ will be assessed.)

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## NGR6433L: Anesthesiology Nursing Practicum III

Prerequisites: NGR 6432L This course is the third in an increasingly more complex sevencourse series that includes clinical anesthesia administration under the direct supervision of a CRNA and/or an anesthesiologist instructor. (A laboratory fee of $\$ 2000$ will be assessed.)

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## NGR6434L: Anesthesiology Nursing Practicum IV

Prerequisites: NGR 6433L This course is the fourth in an increasingly more complex sevencourse series that includes clinical anesthesia administration under the direct supervision of a CRNA and/or an anesthesiologist instructor. (A laboratory fee of $\$ 2000$ will be assessed.)

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## NGR6435L: Anesthesiology Nursing Practicum V

Prerequisites: NGR 6434L This course is the fifth in an increasingly more complex severcourse series that includes clinical anesthesia administration under the direct supervision of a CRNA and/or an anesthesiologist instructor. (A laboratory fee of $\$ 2000$ will be assessed.)

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## NGR6436L: Anesthesiology Nursing Practicum VI

Prerequisites: NGR 6435L This course is the sixth in an increasingly more complex sevencourse series tht includes clinical anesthesia administration under the direct supervision of a CRNA and/or an anesthesiologist instructor. (A laboratory fee of $\$ 2000$ will be assessed.)

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## NGR6437L: Anesthesiology Nursing Practicum VII

Prerequisites: NGR 6436L This is the final course in an increasingly more complex sevencourse series that includes clinical anesthesia administration under the direct supervision of a CRNA and/or an anesthesiologist instructor. (A laboratory fee of $\$ 2000$ will be assessed.)

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NGR6460: Pharmacology of Anesthesiology Nursing I

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Prerequisite: NGR 6460 This course will cover the uptake, distribution, and biotransformation of anesthetics, including the advanced study of therapy in anesthesia of specialty areas and treatment of complications.

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## NGR6490: Regional Anesthesia

Prerequisites: NGR 6421 This course covers theoretical and clinical aspects of the administration and management of regional anesthesia. Anatomy, physiology, and pharmacology will be studied and applied to the administration of anesthetic blocks.

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## NGR6491: Advanced Anesthesiology Nursing Seminar

Prerequisite: NGR 6436L This is an advanced clinical review as presented by the graduate students regarding specific case presentations. The course will serve as a review for the national certification examination.

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## NGR6492: Professional Aspects of Anesthesiology Nursing

Prerequisites: Admission to the Nurse Anesthetist Program This course explores: AANA organizational structure, including affiliated councils, codes of ethical conduct, and current issues in anesthesiology nursing.

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## NGR6493: Technology in Anesthesiology Nursing

Prerequisites: Admission to the Nurse Anesthetist program Use and care of anesthesia equipment (mechanical and electronic) are discussed. Computers and their uses in anesthesiology are also included.

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NGR6494: Advanced Modalities in Pain Management
This course correlates aspects of human anatomy, physiology, pathophysiology and pharmacology as they are related to the diagnosis and treatment of acute and chronic pain. Pain assessment and discussion of multimodal pain management strategies are included.

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## NGR6602C: Advanced Nursing Practice II

Prerequisite: NGR 5601C. Advanced nursing practice in primary health care with focus on knowledge and skills essential for comprehensive health assessment. Analysis of data, formation of diagnoses, development of therapeutic plans and implementation of preventative care, health promotion and maintenance activities for culturally diverse clients across the lifespan. (A laboratory fee of $\$ 15$ assessed.)

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## NGR6603C: Advanced Nursing Practice III

across the lifespan. Emphasis is on care of the pre- and postnatal client and pathology, assessment, diagnoses, therapeutic modalities and evaluation related to long term management of selected chronic health problems. (A laboratory fee of $\$ 15$ assessed.)

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## NGR6637C: Clinical Nurse Specialist II

Prerequisite: NGR 5052C. The focus of this course is on advanced nursing practice in the area of concentration with emphasis on knowledge and skills essential for the design, implementation, and evaluation of educational strategies focused on health promotion and disease prevention. The learner will be involved in health promotion an disease prevention activities for culturally diverse clients.

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## NGR6673: Principles of Epidemiology for Advanced Practice

This course covers the potential influence of advanced practice nurses upon factors affecting the health and illness of populations, and serves as the foundation and logic of evidenced based interventions made in the interest of health and safety. Topics include causal inference, measures of effect and association, and types of studies used to examine health concerns.

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## NGR6711C: Clinical Nurse Specialist III

Prerequisite: NGR 6637C. The focus of this course is on implementation of nursing curricula in class and clinical settings. Strategies for effective course planning, organization, delivery and evaluation of teaching-learning process in nursing education settings will be explored. The learner will be involved in teaching in nursing classroom and clinical settings.

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NGR6726: Quality Management for Advanced Nursing Practice
Prerequisites: Admission to DNP Program or Permission of Instructor The process of quality management in health care as it pertains to chief nurse administrators is analyzed in this course. The focus is continuous quality improvement with emphasis on implementation and evaluation. Differences between quality assurance and quality management will be discussed. Accreditation guidelines will be examined in relation to their impact on health care systems. Evidence-based practices will be reviewed as means for continuous quality management experience.

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NGR6740: Advanced Nursing Practice Role
Prerequisites: NGR 5601C, NGR 6603 C or effective Fall 2005 NGR 6711C. Theoretical basis of the current status of primary care nurse practitioner. Examination of legal, ethical, cultural, social, political and economic problems related to practice. Creative marketing strategies, practice protocols, and job descriptions identified.

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## NGR6772: Clinical Leadership II

Prerequisite: NGR 5770. This is the second of a series of seminars which examine the role of the clinical nurse leader. Discussion of health care systems, health policy, nursing technology, resource management, ethics and global health care will assist the student to understand how health care delivery systems are organized and financed and their effect on patient care
outcomes. Through a combination of discussion and observation, participants in this course will have the opportunity to compare and contrast additional aspects of the role of the clinical nurse leader.

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## NGR6892: Public Policy Implications for Advanced Practice

This course deals with the shifting paradigms of health care policy. The origins of policy created through legislative and administrative action will be considered. Strategies for policy creation, implementation, evaluation and change will be examined from the viewpoint of advanced practice nursing.

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## NGR6894: Global Health Care and Culture

In this course concepts associated with cultural diversity related to matters of health and illness and will be considered. Examples of variations both within and outside of the western viewpoint will be examined. This will be accomplished through conducting cultural assessments and demonstrating how the results of these assessments can be applied, in evidence based manner, to advanced practice.

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## NGR6940C: Clinical Nurse Specialist Education Practicum

Prerequisite: effective Fall 2005 NGR 6711C. Corequisites: NGR 6740. The focus of this course is the integration of assessment, concentrated clinical knowledge and learning theory in a nursing education environment. The capstone for the course will be the implementation and evaluation of the strategies acquired for practice as a nurse educator.

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NGR6941C: Primary Care Practicum
Prerequisites: NGR 5601C and NGR 6602C. Prerequisite or corequisite: NGR 6603C and NGR 6740. Under faculty advisement, an independent clinical practicum in primary care is developed to meet individual learning goals. Preparation of learning goals for a selected clinical practice setting with emphasis on case management of a specific client population. Application of knowledge and skills acquired in Advanced Nursing Practice I, II, III in preparation for entrance into practice.

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## NGR6942C: Clinical Leadership Residency

Pre-req: NGR6772. Under faculty advisement, an independent clinical residency in a selected clinical area is developed to meet individual learning goals. This residency will build on all previously learned topics. Preparation of learning objectives for selected clinical practice setting with emphasis on the CNL role and specific client populations. Application and knowledge of skills acquired in a CL I and CL II is required in preparation for entrance into practice. Residents will be assessing/evaluating actual outcomes and making recommendations for change. This course will be graded as pass/fail.

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NGR 5601C. Under the direction of faculty, the student will carry out a detailed study of a topic in the field of advanced nursing practice. The student will develop, implement, and/or participate in a designated project. May be repeated for credit. This is a pass/fail course.

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#### Abstract

NGR6971: Nursing Thesis v. 1-

Prerequisites: NGR 5001C, NGR 5110, NGR 5141, NGR 5192, NGR 5810. Pre/corequisite: NGR 5601C. Under the direction of faculty, the student will design and implement a clinical nursing research study. May be repeated for credit. This is a pass/fail course.


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NGR7154: Advanced Bioscience
Prerequisite: Admission to DNP program or permission of instructor This course synthesizes concepts of anatomy, pathophysiology, genetics and therapeutics to present a more complete understanding of disease processes. Emphasis is on disorders of the cardiopulmonary, neuromuscular, respiratory and digestive systems and their application to clinical practice.

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## NGR7179: Advanced Pharmacological Management

Prerequisites: Admission to DNP Program or Permission of Instructor The focus of this course is on the clinical application of advanced pharmacology and pharmacotherapeutics across the lifespan. Emphasis is on identification and evaluation of the latest evidence as a basis for pharmacologic management of health and illness in a safe, high quality, cost-effective manner. The principles of altered pharmacodynamics relative to age, race, and ethnic groups are analyzed.

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## NGR7767: Practice Management in Advanced Nursing and Healthcare

Prerequisites: Admission to DNP Program or Permission of Instructor The focus of this course is on analysis of factors affecting the development and sustainability of practice settings. Emphasis is on evaluation of variety of business practice models while examining reimbursement, privileging, contracting and human resource management.

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## NGR7768: Role Development in Advanced Practice Nursing

Prerequisites: Admission to the DNP Program or Permission of the Instructor In this seminar course issues associated with advanced practice nursing as they develop and implement evidence-based practice are analyzed. The roles as a practitioner, administrator and/or educator are further explored. Emphasis is on developing effective communication and collaborative skills for the development and implementation of interprofessionall teams, practice models, peer review, practice guidelines, health policy, standards of care, and/or scholarly endeavors.

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advantages and disadvantages of specific techniques will be considered along with various examples of computer based statistical packages. Particular attention is paid to inferential methods used to evaluate the strength of evidence claimed to support particular interventions.

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## NGR7850: Evidence Based Practice I

Prerequisites: NGR 7797, NGR 7871, NGR 6673 or HSC 6505, NGR 7843 or HSC 6512, NGR 6892 or HSA 6905 Corequisites: HSC 6505 and HSC 6512 In this course students use analytic methods to critically appraise existing literature and other evidence to determine and implement the best evidence for practice. The student will begin to apply relevant finding to develop and analyze clinical practice guidelines and improve practice and the practice environment. Critical appraisal techniques will be used to review meta-analysis, qualitative metasynthesis, and qualitative secondary analysis to prepare evidence tables. The main outcome of the course is the application of clinical and scientific knowledge to solve a practice problem.

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## NGR7851: Evidence Based Practice II

Prerequisites: Admission to DNP Program or Permission Instructor, NGR 7850 This course is a continuation of EBP I in which students develop and test methods to measure outcomes and develop benchmarks. The main outcome of the course is the design of primary research to address factors within the health care system and/or the individual that are associated with evidence-based clinical practice guidelines and quality improvement processes.

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## NGR7871: Healthcare Informatics for Advanced Practice

Prerequisites: Admission to DNP Program or Permission of Instructor This course provides students with an overview of informatics and the theoretical foundation for information management within the health care setting. The impact of automated data management through advances in information technology, health care information systems, and tele-health are explored. During the course students explore informatics theory and practices as a foundation for the development of databases for evidence based practices. Related ethical, regulatory, and legal issues are explored.

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## NGR7946: Residency in Advanced Nursing Practice

Prerequisites: Admission to DNP program or permission of instructor This is a clinically based practicum course. Doctoral students will, with advisor approval, construct a learning contract that will detail the acquisition of a new or higher level of clinical skill for which they were not fully prepared at the masters level. Skills acquisition will be conducted under the direction of a qualified expert preceptor.

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## NGR7974: Doctoral Project

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Prerequisite: Admission to the DNP program or permission of the instructor. In this course the doctoral student will identify, with advisor approval, a problem or question that requires a change in health care or educational services, clinical practices and/or policies that might be addressed in a particular leadership role. This problem should have relevance to current and
emerging health care or educational issues. The result of the project will be a scholarly work, written at a doctoral level of complexity, dealing with the results of the evidence based analysis of the service, practice or policy examined. The analysis will be framed against national benchmarks to determine variances in practice outcomes and population trends. Focus is on dissemination of evaluative outcomes and implications for clinical practice to improve practice or patient outcomes.

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## Graduate Courses

## Public Health

## Course Descriptions:

## GEY6623: Aging and Health Policy

This course explores the demographic, cultural, economic, and health factors that drive political decisions about health care for older Americans. This course will be offered as an elective.

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HIM6120: Fundamentals of Health Information Technology
This course introduces students to the concepts and practices of health information technology. Topics include, but are not limited to: introduction to the health information technology discipline; major applications and commercial vendors; decision support methods and technologies; information systems design and engineering; and new opportunities and emerging trends.

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## HIM6321: Health Information Technology and the Regulatory Environment

Prerequisite: HIM 6120 This course introduces students to the concepts and practices of health information technology. Topics include, but are not limited to: introduction to the health information technology discipline; major applications and commercial vendors; decision support methods and technologies; information systems design and engineering; and new opportunities and emerging trends.

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HIM6659: Health Information Technology Software Applications
Prerequisites: HIM 6120 and HIM 6321 This course covers fundamental concepts associated with the development, utilization and procurement of software systems that assist healthcare professionals in the management and exchange of patientsâ€ ${ }^{\top M}$ electronic health records (EHR). Topics discussed include, but are not limited to: EHR software system architectures; EHR software system development concerns; interoperability among EHR software systems; national regulations, recommendations, and standards that guide the development and define the certification of EHR software systems; utilization of EHR software systems through the study of exemplary and current products; and methodologies to build analyses that support the procurement of EHR software systems.

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## HIM6940: Health Information Technology Capstone Project

Prerequisites: HIM 6120 and HIM 6321 and HIM 6659 This capstone course provides students the opportunity to integrate and apply content from clinical disciplines, health administration, and information technology into a comprehensive and practical framework for working with
healthcare software systems. Interdisciplinary student teams will be challenged to put acquired skills, theories, and strategies into practice working with health service organizations in completion of a health information technology project.

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## HSA5177: Health Care Finance

Corequisite: ACG 2021 or equivalent. This course is designed to provide a foundation in current finance theory with tools needed by health care managers in day-to-day practice. The course finance content encompasses the spectrum of the health care industry and provides financial models used for cost-effective analysis.

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## HSA6114: Health Organization and Delivery

Examines the organization and administration of the U.S. health care system including its various health care service settings, personnel resources, and sources of system finance.

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## HSA6149: Health Planning and Marketing

Prerequisite: Undergraduate marketing course or equivalent. This course examines planning and marketing as related to health care organizations. Emphasis is placed on the planning process and the elements and methods of marketing health care services in relation to the role of the consumer, governing body, administration and health care.

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HSA6178: Advanced Health Care Financial Management
Prerequisites: HSA 5177, HSA 6196. This course examines the concepts and techniques of financial management in health care delivery system settings. Examines organizational cost behavior, budgeting, cost allocation and financial modeling.

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HSA6186: Healthcare Leadership
Prerequisites: HSA 6114. This course addresses current leadership theory focusing on leadership styles, motivation, change management, innovation, and creativity as they relate to management of health services organizations. This course will also explore the ethical dilemmas facing healthcare leaders.

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HSA6188: Capstone: Healthcare Strategic Management
Prerequisites: HSA 6435; HSA 6114; HSA 5177. This "capstone" course is intended to integrate the various disciplines - finance, human resources, law, ethics, policy, operations, research, etc. - into a comprehensive and practical framework. This course will challenge students to put acquired skills, theories and strategies into practice in various segments of the health industry.

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techniques used in managerial decision-making in the health care industry. Emphasis will be placed on the analysis of financial data and application of analytical tools in the evaluation of healthcare programs and organizations.

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## HSA6198: Health Information Technology

This course will examine healthcare information systems with respect to their composition, role, and development within the healthcare environment. In addition, the course will discuss methods for evaluating new health information technology for acquisition by healthcare organizations.

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## HSA6225: Long-Term Care Administration

This course examines long-term care delivery systems with emphasis placed on issues relating to the delivery of quality health services and effective administration. The impact of increased numbers of elderly, increasingly limited resources, state and federal regulatory guidelines and consumer expectations are examined.

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## HSA6342: Healthcare Human Resources

This course focuses on the management of people in healthcare organizations. The course will provide a comprehensive set of managerial tasks and activities designed to develop human resources management (HRM) skills applicable to health services. Aspects of the external environment that affect how people are managed in the healthcare workplace will also be examined.

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## HSA6385: Quality Management in Health Care

This course will provide students an opportunity to examine many of the issues related to quality measurement in health care. The course will emphasize individual and group inquiry into various quality measurement programs and will examine the theoretical basis for current quality measurement activity in the health care field.

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HSA6425: Health Law
This course is designed to provide students understanding of the legal environment in which health care services are provided and to develop skills in analyzing many of the current legal and ethical issues facing health care practitioners and administrators.

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HSA6435: Health Economics
This course examines supply and demand factors, financing of care, efficiency and cost of delivery as related to the health care system. Special attention will be given to physician and hospital reimbursement and behavior, competition and rationing as mechanisms for controlling expenditures.

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Description: This course covers epidemiological concepts and methods for measuring and interpreting data related to the distribution and determinants of morbidity and mortality in human populations. The course will acquaint students with the fundamentals of epidemiologic inquiry, population studies and design, biases that affect interpretation of clinical studies, and applications to decision-making in health care and public health management.

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HSA6813: Aging Capstone
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Prerequisites: HSA 6114, HSA 5177, HSA 6225 The Aging Capstone is designed to provide students the opportunity to gain practical experience while demonstrating the integration of classroom knowledge and theory in management of aging programs and services within the health care industry. Students will select an internship in an aging services organization or a faculty supervised community-based project. This course is a culminating experience and is taken the last semester of academic enrollment.

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HSA6815: Practicum: Executive Skill Development
v. 3-

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Prerequisites:MAN 6204, HSA 6435, HSA 6114, HSA 5177 This course is designed to develop and enhance the skills necessary for success as a health care executive through management practice in health care administration.

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## HSA6905: Health Policy

Prerequisite: HSA 6114 This course is an introduction to the study of health policy and analysis. The course will focus on several components of health policy, including how policy is developed and how it can be described, analyzed, and evaluated. The main emphasis will be upon providing the tools with which to understand how governmental bodies produce policy in its various forms.

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HSA6908: Directed Independent Study
PREREQUISITE: Permission of supervising faculty and Department Chair. This course allows the student to complete a specialized study or research project under the direction of program faculty. This course can be repeated once for an additional 3 credits.

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HSA6945: Long Term Care Internship
Prerequisites: HSA6225 and completion of program requirements for Geriatric Management (MSH) or the MHA Program and Program Director approval. The long-term care administration internship provides the student with the opportunity to gain practical experience and integrate classroom knowledge and theory in a skilled nursing facility setting. It is specifically designed to meet the state mandated internship requirements (rule 64B10-16 F.A.C) for admission to the Florida Nursing Home Administrators Licensure Examination.

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PREREQUISITE: Graduate Standing, preference given to BCH students. This course provides the students with the opportunity to study the organization, financing and delivery of health care in other countries. While abroad, students will visit hospitals and health organizations, and meet with local health practitioners as they explore cultural and political issues impacting healthcare. This course may be repeated once for an additional 3 credits.

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## HSC5569: Aging Research and Theory

Provides a theoretical and analytical model for developing an understanding of the relationships between research and practice in the field of aging. Topics explored will include health care, cultural aging, education and economic issues.

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## HSC6138: Sexuality Education

This course provides an overview of physiological, and sociological aspects of human sexuality throughout the lifespan including gender, family life, relationships, reproduction sexual behavior, STDs/HIV, safer sex, and sexual coercion. Planning, implementing and evaluating community sexuality education programs are included in the course. Policy issues that affect sexuality education are also addressed. Students are required to complete research, writing, and practice assignments related to sexuality education in public health.

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HSC6157: Drug Abuse \& Violence Prevention Education
This course is a study of issues related to the prevention continuum, including primary, secondary, and tertiary prevention. Substance use, misuse, abuse, and dependency, as well as violence are addressed. The focus of the course is the application of substance abuse/dependence and violence prevention programs in a variety of settings. Students are required to complete research, writing, and practice assignments related to drug abuse and violence prevention education in public health.

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## HSC6175: Mental and Emotional Health Education

The purpose of this course is to examine educational planning and program implementation involved in facilitating the development and maintenance of mental health. Communication skills effective for the helping professions are addressed. Students are required to complete research, writing, and practice assignments related to mental and emotional health education in public health.

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## HSC6215: Environmental Health

An ecological examination of the relationships between environmental conditions and human health. Special emphasis will be given to principles, processes, priorities, and current research in the study of environmental problems and their impact on health and disease in human populations.

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This course covers epidemiological concepts and methods for measuring and interpreting data related to the distribution and determinants of morbidity and mortality in human populations.
The knowledge and skills acquired should enable one to plan, develop, conduct, and interpret findings from epidemiologic investigations and other types of studies, and to make meaningful recommendations for methods of disease control and prevention.

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## HSC6526: Special Topics/Infectious \& Noninfectious Diseases

Concepts and characteristics of important infectious and noninfectious diseases to include their biological and behavioral determinants, susceptibility and defense, and current methods in prevention and treatment.

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## HSC6560: Aging and Health in a Multicultural Society

This course examines the aging process and related health care needs from a multicultural perspective. Students will explore the impact of gender, race, and ethnicity on the aging population and on the development of culturally appropriate health and social services.

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## HSC6566: Health Promotion, Disease Prevention and the Older

## Adult

A study of selected biological and psychosocial health problems of older adults and the normal physical changes that occur with the aging process. Attention will be given to the design and maintenance of healthy life styles among the elderly.

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HSC6585: Health Promotion and Health Education Strategies
An examination of the implementation, coordination and effectiveness of health promotion and health education strategies and methods.

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HSC6586: Worksite Health Promotion Principles
An analysis of the key elements in the development and implementation of workplace health promotion programs and policies.

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## HSC6587: Program Planning in Health Promotion/Education

An analysis of the essential aspects of planning procedures used in the development of community-based health promotion and health education programs.

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## HSC6603: Theory of Health Behavior

An exploration of the theoretical and conceptual models and factors underlying public health behavior and health promotion programs and their application in planning, implementing, and evaluating public health programs for behavioral change.

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The purpose of this course is to discuss the status of world health, the progress achieved over the past decade and challenges for the future. The course will address the critical questions of international cooperation and the interaction between social change and health problems.

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## HSC6656: Professional Ethics in Health Care

An exploration of contemporary ethical issues that face health care providers. Ethical dimensions in death and dying, abortion, AIDS, biomedical research and health care resources are among the topics to be discussed.

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HSC6706: Grantsmanship
The course will familiarize participants with the skills required to prepare grant requests and contract proposals for submission to public institutions and private foundations. It will be focused on how to develop an idea that is responsive to the goals and objectives of funding organizations.

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## HSC6712: Evaluation of Health Programs

This course addresses procedures used to evaluate the effectiveness of health programs. Included in the course is a review of evaluation methods, standards of performance, and available standardized evaluation/assessment instruments. Emphasis will be on process, impact and outcome evaluation. A field experience may be required.

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## HSC6716: Health Program Evaluation

This course focuses on principles and methods employed in program evaluation and evaluative research. Issues of conceptualization and design in evaluation are emphasized. The course also addresses operational procedures used in evaluation studies ranging from identification of variables to instrument design and use of findings. The course reviews applications of evaluative research in health services decision making.

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HSC6735: Health Science Research
Prerequisite: HSC 6505. A study of the investigative and analytical methods used in health related research. Emphasizes design, sampling techniques, data collection and processing, interpretation of the results and ethics.

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## HSC6737: Applied Research in Aging

The course includes an examination of the major theoretical and analytical frameworks from the core disciplines (biology, psychology, and sociology) which inform the field of gerontology. Emphasis is on the application of the theoretical contexts to research initiatives and gerontological practice. Students are expected to become familiar with contemporary research on aspects of aging, and they learn to identify and evaluate issues raised by the findings from the field of aging research. In addition, the course examines the connections between theory
and age-related issues and problems such as economic inequality, retirement, health care, and aging in families.

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## HSC6816: Field Experiences in Health

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Prerequisite: Approval of department advisor. The application of methods, techniques and materials used in community and school health. May be repeated up to 18 credits.

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## HSC6855: Clinical Internship in Health

Prerequisite: Advisor-student conference and completion of major courses. Provides clinical experience in a health care facility or workplace setting.

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## HSC6900: Readings and Conference

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In-depth readings and group discussions and conferences on selected topics or critical issues in the health science field. Readings will vary each semester but will involve a formal survey of the literature and presentation of findings.

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HSC6906: Independent Study and Research
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Prerequisite: Permission of department chair. A specific health related research project conducted under the guidance of a faculty advisor. May be repeated up to 15 credits.

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## HSC6912: Projects

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Development, implementation, or participation in conducting a designated project related to health science. May be repeated up to 12 credits.

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HSC6931: Special Topics
A detailed study of a topic in the health science field. Topics will vary each time the course is offered and will be based on a current health issue or subject. May be repeated up to 12 credits.

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HSC6970: Thesis
v. 3-

Permission of department chair. Under the direction of the faculty the student designs and presents a field based research project of his or her own conception. May be repeated up to 27 hours maximum.

HUN5408: Nutrition in the Life Cycle
Prerequisite: HSC 4572. A scientific, chronological examination of how nutrition influences people throughout their lives. This course covers nutrition and metabolism and biological and biochemical basis of effect of optimal nutrition practices during life span, from pregnancy to the old age. Nutritional requirements of all age groups are discusses. Implication and management of metabolic and eating disorders based on recent research literature is studied.

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## MHS6006: Introduction to the Counseling Process

Prerequisite: Admission to the counselor education program or permission of instructor. This course provides an introduction to several models of counseling, including both theory and practice. Students will develop basic knowledge and skills associated with client-centered counseling, brief counseling, and cognitive-behavioral counseling. They will become familiar with the mechanics of counseling, including structuring sessions, establishing goals, and evaluating progress. Students will learn to assess their own suitability for a career in the counseling field and will become familiar with the basic counseling literature.

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## MHS6070: Psychopathology

Prerequisite: MHS 6006. An overview of abnormal behavior and knowledge of the basic criteria for categorizing mental disorders, using the DSM-IV. Includes a survey of the theoretical models of maladaptive behavior, as well as case studies to facilitate understanding of the breadth and complexity of reliable diagnosis.

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## MHS6205: Assessment and Evaluation in Mental Health Counseling

The purpose of this course is to familiarize students with the knowledge necessary to select, administer and interpret assessments and evaluations in clinical settings,including the implications of testing and evaluation for cultural and special needs populations. Students will be introduced to assessment and evaluation concepts, terminology, and methodology, including the psychometric statistics underlying commonly used tests and assessments, with an emphasis on legal and ethical considerations guiding the practice of assessment. Non-test assessment theory and practice will be studied and demonstrated experientially.

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## MHS6305: Career Counseling

This course is designed to familiarize students with professional career growth through an examination of foundational tenets of career theories for the purpose of assessing clients' skills and aptitudes to provide effective career counseling The course is also designed to help counselors-in-training gain a better understanding of the relationship between career choices and personality traits and emotional states, and how the these components are essential to optimize job/career success.

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Prerequisite: MHS 6006. This course provides students with in-depth practice in intermediate
counseling skills, as well as knowledge of the major counseling theories. Students will participate in a pre-practicum experience.

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## MHS6401: Clinical Mental Health Counseling in Community Settings

Prerequisite: MHS 6400, MHS 6510, and MHS 6070
Description: This course addresses current issues in the provision of counseling services in community and agency settings. Students will become familiar with mental health services across the continuum of care including inpatient, outpatient, partial treatment and aftercare. Current controversies regarding managed care and accountability, and public mental health policy will be explored. Practical applications include the development of methods for assessing community needs for counseling services, managing mental health services and programs, engaging in case conceptualization, treatment planning and documentation, practicing consultation, and providing clinical supervision.

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## MHS6402: Overview of Brief Counseling

Prerequisite: Completion of MHS 6006 or permission of instructor. This course is appropriate for students having a basic counseling background (MHS 6006 or the equivalent), as well as more advanced students or practicing counselors. Students will become skilled in the application of solution-focused counseling and interactive guided imagery. Selected techniques from other models will be attained.

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## MHS6404: Theories in Clinical Mental Health Counseling

The purpose of the course is to provide an overview of theories of counseling and psychotherapy, with an emphasis on mental health and clinical application of these theories. The course will focus on counseling theory, both in general and within the field of mental health counseling. Through readings, discussions, and observations students will gain a better understanding of human behavior and the issues confronted daily by those involved in clinical settings. Major counseling theories will be examined, applied, and translated to practice.

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## MHS6410: Behavior Management Skills

This course is designed to prepare school counseling students for their role as counselor and consultant by examining various behavioral management techniques for use with individuals and in the classroom. Students will be given an in-depth look at potential problem situations and students. The course will look at profiles and characteristics of students presenting potential and active behavioral problems. Strategies for handling on-going behavioral problems are examined. The course will also address how to prevent problem behavior from beginning.

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## MHS6428: Counseling Diverse Populations

Designed to provide students with knowledge of diverse populations and the skills necessary to counsel individuals with diverse needs.

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Prerequisite: MHS 6006. This course is designed to provide students with a comprehensive overview of contemporary theories and practices in family counseling. Students will acquire knowledge of psycho dynamic, humanistic, systems, structural, communication/strategic, and behavioral/cognitive approaches to working with families. Special emphasis will be placed on professional issues and ethical practices in family therapy.

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## MHS6431: Advanced Seminar in Family Counseling

Prerequisite: MHS 6006 and MHS 6430. This course is designed to provide students with an in-depth focus on a particular contemporary treatment approach to working with families. The selected treatment approach (e.g., systems, psychodynamic, strategic, cognitive-behavioral, etc.) will vary from semester to semester. Students will acquire knowledge of basic theoretical concepts as well as the techniques and interventions germane to the specific modality chosen. Special emphasis will be on skill-building and practicing family counseling techniques.

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MHS6436: Counseling Military Families

Description: Counseling Military and their Families is a 3-credit elective course which provides comprehensive coverage of salient aspects of military life and military psychology, including the psychological consequences of combat-zone deployments and the cycle of deployment. Special emphasis will also be placed on the treatment of sub-threshold and clinically significant symptoms consistent with depressive, anxiety, and cognitive disorders, as well as interpersonal difficulties faced by military members and their family members.

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## MHS6440: Counseling Couples

Prerequisite: MHS 6006. This course is designed as an elective in the counselor education program. Students will learn various models of counseling couples; will practice specific skills, interventions, and assessment procedures appropriate for couples; and will become knowledgeable and skilled in dealing with issues such as cultural differences, gay and lesbian relationships, domestic violence, and crisis intervention.

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## MHS6450: Addictions Counseling

Prerequisite: MHS 6006. This course is designed to prepare students for the challenges of working with clients who have substance dependency and abuse problems. Students will acquire knowledge in individual and group treatment approaches, therapeutic interventions and issues. This course emphasizes the acquisition of counseling skills and provides opportunities for students to practice skill-building. Special focus will also be placed on working with special populations including minorities, the elderly, adolescents, and the mentally ill.

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MHS6470: Sexual Issues in Counseling
Prerequisite: Admission to the Counselor Education program or permission of instructor. This course is designed to provide mental health counseling students and other individuals in the mental health field with an introduction to sexual issues in counseling. The course will cover theories of human sexuality, sexual dysfunctions, sexual deviations, and life adjustments in sexuality. Students will learn principles of assessment and formulation of sexual problems and

## MHS6486: Human Development Across the Lifespan

This course is designed to familiarize clinical mental health counseling students about psychosocial elements of human development across the lifespan, including various developmental stage theory, tasks related to each stage and maladaptive behaviors related to unsuccessful fulfillment of psychosocial stages Students will learn how translate development theory into effectual counseling techniques and strategies.

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## MHS6500: Advanced Practice in Group Therapy

Prerequisites: MHS 6510, MHS 6941 Advanced Practice in Group Therapy is designed to provide students with specialized knowledge of group theory, research and practice. Students will explore the application of group psychotherapy in culturally diverse populations and in diverse practice settings. Special emphasis will be placed upon existential-humanistic approaches which focus on here-and-now interactions between group members and on groups which incorporate nonverbal forms of self-expression. Students will also practice a variety of advanced group leadership skills needed to facilitate different types of group formats.

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## MHS6510: Group Counseling

Prerequisites: MHS 6006. This course is designed to provide students with theoretical knowledge and skills appropriate for counseling in a group setting. Students will participate in an on-going group, will learn and demonstrate group leadership skills, and will design, conduct, and evaluate a structured group counseling program.

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## MHS6700: Legal, Ethical, and Professional Issues in Counseling

Prerequisite: MHS 6006. This course provides students with an overview of legal, ethical, and professional issues that impact counselors. Through case studies, students will become familiar with Florida statutes and ethical principles which govern the practice of counseling. Students will be knowledgeable of the profession, including history, roles and functions of counselors, and professional organizations.

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## MHS6800: Practicum in Mental Health Counseling

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Prerequisite: MHS 6510 and MHS 6404 and MHS 6941
Description: The Clinical Mental Health Counseling Practicum is the initial supervised field site experience that allows students to prepare for their internships (MHS6830). It involves three(3)semester hours of clinical supervised experience from both University faculty and site supervisors in a mental health setting concurrent with a small University group classroom supervision and instruction which affords students time for both personal one-on-one supervision as well as group supervision. This allows student to assimilate didactic information with clinical performance and gives them time to build their counseling skills before entering internship.

Prerequisite: Permission of the faculty
Description: The two 3-hour internships are the culminating clinical experiences in the Clinical Mental Health Program. Supervision is provided by Clinical Mental Health Counseling Faculty as well as qualified site supervisors at each clinical site.

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## MHS6876: Clinical Research and Outcome Eval in Mental Health Counseling

Counseling professionals are expected to be accountable for determining and communicating clinical and program effectiveness. Therefore, the purpose of this course is to familiarize students with the basic concepts and statistical skills necessary to determine counseling outcomes and evaluation of clinical counseling programs. As a result, course instruction will center on research design, quantitative data analysis, and interpretation and reporting of the data.

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## MHS6905: Directed Individual Study

Prerequisite: Permission of instructor. Supervised individual investigation of specific problems in counseling within an educational or mental health setting. May be repeated up to 30 credits.

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## MHS6916: Conceptual and Research Independent Study in Clinical Mental Health Counseling

Description: The Conceptual/Research Independent Study (CRIS) class will allow students who seek to explore topics of interest to them to be able to do so under the guidance of a professor who is willing to work in concert with them. It may sometimes be more than one student. It will NOT be an Independent Study where a student can help a faculty member with his or her research. It must come from the student's interest and not the professor's interest. The student will be responsible for developing a syllabus for the project and having the syllabus approved by the faculty person.
Repeatability: This course is repeatable one time for a maximum of six credits.
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## MHS6930: Special Topics in Counselor Education

Prerequisites: Variable. In-depth study of particular counseling strategies, theories, methodologies or populations. Variable titles may include topics such as Counseling Children, Cognitive Therapy or Counseling the Aging. May be repeated up to 30 credits.

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MHS6931: Contemporary Problems and Issues
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Exploration of selected contemporary topics relevant to counselors in the area of social and cultural foundations. Topics include trends and changes in gender roles; multicultural and pluralistic characteristics and concerns of selected subgroups; and societal issues such as stress or substance abuse.

## MHS6941: Clinical Counseling Skills

This is an academic and training experience designed to promote students' acquisition and development of specific skills in verbal and nonverbal communication and human relations. Students will learn fundamental skills in active listening, reflecting content, responding empathetically, as well as advanced skills such as reframing, confrontation, and interpretation. Students will also learn how to identify clients' issues and apply appropriate counseling strategies.

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## PHC5370: Biological Foundations of Public Health

Prerequisite: An undergraduate human biology course or Anatomy and Physiology I and II or consent of instructor. This course describes the biological determinants of health and disease required to formulate an integrated approach to public health. Principles of genetics, physiology, molecular and cellular biology, pathology, immunology and toxicology as they apply to diseases of public health importance and their control strategies are taught. Examples of the application of biological knowledge to public health problems will also be presented, and emerging biological information and technologies likely to be applicable to public health will be discussed.

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## PHC6003: Chronic Disease Epidemiology

Prerequisite: HSC 3500
Description: This advanced epidemiology course will explore the major chronic diseases and related risk factors with emphasis on recent epidemiology research and findings. The burden of chronic illness will be introduced, and discussion on the epidemiologic features of specific diseases prevalent in western societies will be presented. The specific chronic diseases will include cardiovascular disease, cancer, chronic lung disease, diabetes, arthritis and musculoskeletal diseases, and chronic neurologic disorders. Specific risk factors will be presented and other topics will be discussed where possible.

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## PHC6050: Public Health Biostatistics I

Prerequisite: Undergraduate statistics course or equivalent
Description: This course focuses on the principles and methods of reasoning that underlie modern biostatistics, providing the basis for further study in epidemiology and biostatistics. The course will provide information concerning specific descriptive and inferential techniques commonly used in public health research.

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PHC6103: Essentials of Public Health Practice
This public health core course provides an overview of the three fundamental areas in public health practice including assessment, policy development and assurance. Purpose and examples of each area are examined within the context of an operating county level public health department.

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A study of the cultural aspects of disease and health, culturally specific definitions, educational strategies and cross-cultural research in health. An emphasis will be placed on integrating cultural knowledge in the planning and administration of health care programs.

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## PHC6450: Community Organization in Public Health Practice

Prerequisite: PHC 6103 and HSC 6603. This course presents selected social and behavioral change theories and the translation of these theories into specific health education policies and interventions. Readings and discussions will center on the development of theory-based strategies with an emphasis on control, participation an empowerment. Principles of citizen participation and empowerment are highlighted. Effectiveness of coalition and partnership models, including media advocacy and marketing strategies are reviewed. Case examples of health programs designed to address community health issues and social inequalities add to the analysis process.

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## PHC6940: Public Health Capstone

Prerequisite: Completion of or current enrollment in all required MPH courses and permission of the PHC 6940 Public Health Capstone Instructor This course prepares students for entry into a public health career through development of professional skills, securing an internship site, developing the internship project proposal, obtaining necessary approvals, and preparation for national certification. This course must be completed the semester immediately prior to Public Health Internship. This course is offered spring term only.

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Prerequisite: Completion of PHC 6940 and permission of the Capstone Instructor This course consists of two major components: 1) a planned, supervised practice experience with an approved public health organization; and 2) the comprehensive examination. During the practice experience students will apply the knowledge and skills learned in MPH core and health education specialization courses to actual public health problems. The comprehensive examination will assess student proficiency in the concepts and skills learned in MPH core and health education specialization courses. This course is offered summer term only.

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## RCS5031: Introduction to Rehabilitation Counseling

The purpose of this course is to introduce the field of rehabilitation counseling at the graduate level of study. Designed as a foundation for subsequent study in rehabilitation, students in this course should develop an appreciation and understanding of the rehabilitation profession in terms of its history, purpose, philosophy, process, personnel, programs, resources and clients.

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## RCS5080: Medical Aspects of Disability

The purpose of this course is to help students gain skills in vocational rehabilitation counseling with a working knowledge of disabilities. To do this each student needs medical information for specific purposes: (1) case finding; (2) determination of client eligibility and feasibility; (3) arranging physical restoration services; (4) counseling, planning, and developing vocational objectives; (5) training; and (6) selective job placement.

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This course is designed to introduce students to, and facilitate their development of basic counseling skills in rehabilitation counseling. This course also provides students with an overview of the primary ethical and administrative considerations of the rehabilitation counseling environments.

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## RCS5220: Rehabilitation Client Assessment

The focus of this class will be on the process of assessing individuals with physical, sensory, cognitive, and/or emotional disabilities in order to determine optimally effective (re)habilitation plan and placement decisions. The course will include an introduction to the purpose, personnel, philosophy, and role of assessment in (re)habilitation service delivery, learning to complete assessment interviews, developing individualized evaluation plans, psychometric procedures, work sampling, situational assessment, communicating assessment results and rehabilitation planning. (A material fee of $\$ 15$ assessed.)

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RCS5243: Assessment and Treatment of Addictive Disorders
Prerequisite: RCS 5450. In this course, we will explore many of the issues related to addiction and its related dysfunction including, but not limited to: (1) the dynamics of compulsive behavior; (2) biological, personality, and environmental influences on addiction; (3) multiple family and gender issues related to addiction; (4) assessment of addiction; and (5) exploration and evaluation of treatment models.

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## RCS5450: Introduction to Addictive/Compulsive Disorders: Pharmacological Overview and Etiological Theories

The purpose of this course is to provide students with an overview of the dynamics of substance abuse in contemporary U.S. society. The class will include both didactic and experiential activities designed to help students expand the knowledge of substance abuse and theories of addiction, and also the impact it has had on their lives.

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## RCS6241: Psychosocial Aspects of Rehabilitation

The purpose of this course is to introduce students to the complexity of psychological and sociological issues that result from chronic illness and disability. Issues of diversity will also be explored from a multicultural dimension.

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## RCS6250: Dual Diagnosis - Addictive Disorders and Physical and/or Psychopathological Disorders

Prerequisites: RCS 5450 and RCS 5243. The purpose of this course is to introduce students to the complexity of dual diagnosis of addiction and other forms of psychopathology as defined in the Diagnostic and Statistical Manual (DSM-IV), and to help students determine diagnostic criteria.

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The focus of this course is integration of the rehabilitation client into the labor market. Career theory will be taught, but the major emphasis will be providing information to clients about the labor market through labor market, industry, and job analysis and preparing the client for work through job readiness, job-seeking skills, and techniques and issues in job placement.

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## RCS6407: Counseling/Develop, Theories and Techniques in Rehabilitation

This course provides students with an overview of the counseling and human development knowledge domains underlying rehabilitation counseling. These domains, which include human development theories, personal adjustment counseling, career counseling, multicultural counseling, family counseling, and consultation, are presented within the framework of the major theoretical approaches to counseling that relate specifically to people with disabilities. Basic techniques and selected professional issues related to rehabilitation counseling are presented.

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## RCS6500: Introduction to Group Counseling

Prerequisite: MHS 6006. This is a course designed to provide students with an overview of the basic theoretical components of small groups and group theories and to foster increased skill level in communication, facilitation, and leadership. To this end, the course will include lecture, discussion, and laboratory experience.

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## RCS6642: Case Management in Rehabilitation

This course provides an overview of the case management process, including service coordination, community resources, and specialized services for different populations with disabilities. Case management practices and procedures in both private and public rehabilitation programs are addressed.

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## RCS6805: Field Practicum in Rehabilitation Counseling

The purpose of the clinical practice program is to provide students majoring in rehabilitation counseling with an opportunity to develop and refine their counseling skills within the functional milieu of a rehabilitation agency.

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## RCS6825: Internship in Rehabilitation Counseling

Take for 6 or 12 hours per semester, with a total of 12 hours necessary. The purpose of this class is to provide students with a clinical experience in a community rehabilitation agency. Students will learn to apply rehabilitation counseling and case management methods, techniques, and vocational knowledge in working with clients, and to consult with rehabilitation professionals as needed to enhance services to clients for the purpose of job development and placement, and/or independent living. Grading is on Pass/Fail bases.

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counseling students to models of counseling supervision so that they understand the necessary dynamics and protocol of professional clinical supervision of students, which most will be called upon to do once they are practicing professionals.

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## RCS6930: Seminar in Rehabilitation Certification

This course is designed to give the student an opportunity to prepare for the Rehabilitation Counseling Certification Examination.

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RCS6931: Seminar in Substance Abuse and Clinical

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Prerequisites: RCS 5450 and RCS 5243. Addiction is a phenomenon that is both complex and fascinating. In this course, through review and critique of current and "classic" addiction literature, information sharing, and observation, students will explore many of the issues related to substance abuse, specifically as they relate to a full spectrum of diversity and ethical issues.

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## Graduate Courses

## Accounting and Finance

## Course Descriptions:

## ACG6305: Management Accounting

Prerequisite: FIN 5405 or equivalent with a "C" or better
Description: This course involves a study of the basic cost flows through an organization, the accounting systems that are used to capture the cost data, and the managerial uses of the cost data in routine and non-routine decision-making situations. This course may not be used to satisfy CPA requirements in Florida and should not be taken by MBA students who were undergraduate accounting majors.
Availability: This course is offered every semester.
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## ACG6309: Advanced Managerial Accounting Theory

Prerequisite: ACG 4361 with a "C" or better or ACG 6305 with a "C" or better Description: This course provides an examination of the development of managerial accounting, and contemporary managerial accounting issues. The emphasis is on the underlying theories and objectives of managerial accounting as it relates to the management decision process. This course is recommended for MBA students who were undergraduate accounting majors.
Availability: This course is usually offered in the spring.
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#### Abstract

ACG6405: Advanced Accounting Information Systems Prerequisite: ACG 4401 or equivalent with a " C " or better Description: This course presents objective user analysis of information systems and their role in providing accounting information for planning, operations control, and managerial/financial control. In this course, emphasis is placed on developing a conceptual framework for applying information technology to the functional areas of business. Availability: This course is usually offered fall and spring.


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## ACG6505: Not-For-Profit Accounting

Prerequisite: ACG 6305 or equivalent with a grade of " B " or better
Description: This course involves a study of how current methods of accounting for not-forprofit entities evolved, and a critical review of contemporary issues concerning changes to existing not-for-profit accounting methods.
Availability: This course is offered intermittently.
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Description: This course provides an examination of the theoretical framework of auditing with emphasis upon the development and analysis of the philosophy and methodology of auditing. Ethical and legal considerations of auditing will receive special attention.
Availability: This course is usually offered fall and spring.
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## ACG6805: Advanced Accounting Theory

Prerequisite: Undergraduate accounting degree or equivalent
Description: This course involves an examination of contemporary accounting issues with special emphasis upon the underlying theories, controversies, and objectives of asset valuation and income determination.
Availability: This course is usually offered fall and spring.
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#### Abstract

ACG6838: Accounting Fraud Prerequisite: ACG 3103 with a " C " or better or consent of the instructor Description: This course involves an examination of the constructs of fraud in contemporary business organizations with particular attention to historical cases and contemporary regulatory, economic, political and social influences. The analysis will examine the impact of fraud on both for-profit and nonprofit organizations. Availability: This course is usually offered only in the fall.


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## ACG6905: Advanced Studies in Accounting

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Description: This course involves special studies undertaken independently under the supervision of an accounting department faculty member. The student must have the faculty supervisor and department chairperson's approval of special study prior to enrollment. Repeatability: This course may be repeated with a change in content up to a maximum of 6 credits.

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## ACG6936: Special Topics in Accounting

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Prerequisite: ACG 6305 with a " C " or better and permission of the advisor and the department chairperson.
Description: This course involves the study of special topics not offered in other departmental courses.
Repeatability: This course may be repeated with a change in content up to a maximum of 6 credits.

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## ACG6957: Study Abroad in Accounting

Prerequisite: Graduate standing in the Coggin College of Business and permission of the instructor
Co-requisite: ACG 6305 or equivalent
Description: In this course students will study a country's business practices, with a particular emphasis on accounting. During this course, students will: understand the culture, geography,
history, and politics of the country; travel to the country; study the differences between business in the U.S. and business in that country; and learn about the current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip work.

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## FIN5405: Essentials of Managerial Finance

Description: This is a course for non-business undergraduate majors. This course covers the principles of financial accounting and the processes and techniques applicable to financial management. This course combines knowledge from two difficult disciplines, in a rigorous course, taught at a rapid pace. This course is intended for MBA candidates who have not had undergraduate or equivalent foundation work in accounting and financial management. Availability: This course is offered every semester.

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FIN6314: Banking and Financial Administration
Prerequisite: FIN 6406
Description: This course examines the structure of banking and other financial institutions; and the organization and administration of commercial banks and other financial institutions.

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FIN6406: Advanced Financial Management
Prerequisite: All required 5000 level foundation courses
Co-requisite: ECO 6415
Description: This course involves an examination of theory and practice in financial management. Case analysis is used as a focus for class discussion.
Availability: This course is offered every semester.
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## FIN6515: Investments

Prerequisite: FIN 6406
Description: This course focuses on investment analysis, elements of the investment process, and the criteria for investment decisions.
Availability: This course is usually only offered in the fall.
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## FIN6535: Derivative Securities

## Prerequisite: FIN 6406

Description: This course introduces students to the theoretical and practical aspects of derivative securities, such as financial futures, options, futures, swaps and other financially engineered securities. The course will describe the market for these securities, derive the models to price derivatives and demonstrate effective usage of derivatives in managing financial risk.

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FIN6565: Student Managed Investment Fund I

Description: This is the first in a sequence of two courses in which students perform the
activities of managing a real portfolio of securities. The course is designed to operate like a typical professionally managed fund. In this course, analyst teams are formed and officer positions are assigned. Students establish the criteria for selecting securities, research the prospective investments, generate reports, and make decisions to buy or sell securities. Students accepted into this course must continue to Student Managed Investment Fund II during the next semester. Enrollement in this course is limited by application.
Availability: This course is only offered in the fall.
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## FIN6566: Student Managed Investment Fund II

Prerequisite: FIN 6565
Description: This is the second course in the Student Managed Investment Fund sequence and continues where Student Managed Investment Fund I left off. In this course students will continue to evaluate securities and manage the portfolio; however, more attention is directed at beginning to position the fund for the idle summer months by identifying core holdings. The final project is the preparation of the Annual Report summarizing the performance of the fund during the fall and spring semesters.
Availability: This course is offered only in the spring.
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FIN6605: International Finance
Prerequisite: FIN 6406
Description: This course involves a comprehensive survey of international finance. The course provides a basic understanding of the forces that affect the relative values of currencies, the financial problems associated with international trade, international capital markets and international institutions. Case studies will be used to illustrate specific situations. Availability: This course is usually offered in the fall and spring.

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FIN6906: Special Work in Finance
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Prerequisite: FIN 6406 and this course requires prior approval of the instructor.
Description: This course involves an investigation of a selected problem or project of interest to the student.
Repeatability: The course may be repeated with a change in content up to a maximum of 6 credits.

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## FIN6936: Special Topics in Finance

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Prerequisite: FIN 6406 and permission of the advisor and department chairperson.
Description: This course involves the study of special topics not offered in other departmental courses.
Repeatability: This course may be repeated with a change in content up to a maximum of 6 credits.

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FIN6957: Study Abroad in Finance
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Prerequisite: FIN 5405 or equivalent and permission of the instructor.

Description: In this course students will conduct advanced study of a country's business practices, with a particular emphasis on finance. During this course, students will: understand the culture, geography, history, and politics of the country; travel to the country; study the differences between business in the U.S. and business in that country; and learn about the current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip assignments.

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## REE6146: Real Property Analysis

Prerequisite: FIN 5405 or equivalent
Description: This course provides a study of the decision-making process of real property asset management. Private and public issues regarding the housing, real property, and business environment are included in the study. Topics concerning the legal issues, valuation, financing and investment in real estate are discussed.

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## REE6906: Directed Individual Study

Prerequisite: Consent of the instructor
Description: This course involves the investigation of selected problems and topics of current and permanent import in real estate and urban land economics.
Repeatability: This course may be repeated with a change in content up to a maximum of 6 credits.

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TAX6045: Tax Research and Writing
Prerequisite: TAX 3001
Description: This course is designed to familiarize students with the various sources of federal tax law, to enable students to analyze tax problems, and to prepare tax briefs and memoranda to support their positions.

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TAX6105: Taxation of Business Corporations
Prerequisite: TAX 3001
Description: This course involves an examination of federal tax issues of business corporations. Among other topics: the formation, the liquidation, and the sale of assets and enterprises will be considered.

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TAX6206: Income Taxation of Partners and Partnerships
Prerequisite: TAX 3001 with a "C" or better. An examination of federal tax problems of partners and partnerships. Special problems related to formation and liquidation will be studied.

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TAX6405: Federal Taxation of Gifts and Estates
Prerequisite: TAX 3001 with a "C" or better
Description: This course involves an examination of the federal tax laws covering gifts and estates.

Prerequisite: TAX 3001 with a "C" or better
Description: This course involves the study of income tax problems associated with estate and trust planning.

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## TAX6505: International Taxation

Prerequisite: TAX 3011 with a "C" or better or TAX 6105 with a "C" or better
Description: This course involves a study of international taxation rules. Topics include a survey of the "source rules"; withholding tax issues; controlled foreign corporations; Subpart F and IRC n956 income; the foreign tax credit regime; utilization of tax treaties and executive agreements in tax planning; and transfer pricing rules. In addition, there will be a brief focus on foreign tax regimes as they affect the local activities of U.S. taxpayers.

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TAX6726: Tax Planning and Principles
Prerequisite: ACG 2021 or equivalent with a " C " or better
Description: This course is designed to acquaint the student with current federal tax law and philosophy. It will focus on the non-specialist who is interested in acquiring knowledge of tax planning and current tax problems and policy. This course cannot be taken for credit by Master of Accountancy students.

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TAX6905: Advanced Studies in Taxation
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Prerequisite: TAX 6105 with " C " or better and permission of the instructor and department chairperson
Description: This course involves special studies in taxation undertaken independently under the supervision of an accounting department faculty member.
Repeatability: This course may be repeated with a change in content up to a maximum of 6 credits.

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TAX6957: Study Abroad in Taxation

Prerequisite: Graduate standing in the Coggin College of Business and permission of the instructor
Co-requisite: ACG 6305 or equivalent
Description: In this course students will study a country's business practices, with a particular emphasis on taxation. During this course, students will: understand the culture, geography, history, and politics of the country; travel to the country; study the differences between business in the U.S. and business in that country; and learn about the current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip work.

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## Graduate Courses

## Management

## Course Descriptions:

## BUL5810: Law and Business Environment

## Prerequisite: MBA classification

Description: Analysis of the legal and social environment in which businesses operate. Also considers business ethics, international law and the social political environment in which a business operates.

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BUL6840: Employment Law

Description: This course involves a study of the laws that affect employment. The major emphasis is on federal law such as those covering equal opportunity and affirmative action, OSHA, and ERISA, but there is also concern with significant Florida law affecting employees and the employment function.

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## BUL6904: Directed Individual Studies in Business Law

Prerequisite: BUL 3130 or equivalent and approval of department chair, director of graduate program and faculty supervisor.
Description: The course allows graduate students to investigate selected topics in business law.
Repeatability: This course may be repeated with a change in content up to a maximum of six credits.

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GEB6125: Advanced Small Business Consulting
Prerequisite: Twenty-five credits in graduate business administration or permission of the instructor
Description: This course is a practicum in providing assistance to small businesses.
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## GEB6957: Study Abroad in Business

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Prerequisites: Graduate standing in the Coggin College of Business and permission of the instructor. Students will conduct advanced study of a country's business practices. During this course, students will: understand the culture, geography, history, and politics of the country; travel to the country; study the differences between business in the U.S. and business in that country; and learn about current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip assignments.

Prerequisite: MAN 3025 and CGS 1100 or equivalents
Description: This course is a study of Management Information Systems with emphasis on the design, analysis, operation and control of information systems as an aid to managerial decision-making.

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## MAN5036: Fundamentals of Management and Marketing

## Prerequisite: Graduate standing

Description: This course is a foundation course in management and marketing for students beginning their graduate study in business. It is intended for students who did not study business at the baccalaureate level.

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MAN5936: Seminar: Studies in Economics and Business

Description: This seminar consists of the study of interdisciplinary problems related to economics and business administration.

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MAN6056: Cornerstones of Managing for Value
Prerequisite: Foundation courses or undergraduate equivalent
Description: This is an introductory MBA course which examines the history and philosophy of business, including: ethics, the concept of value-based management, TQM, functional integration, team building, information sources, information technology, international aspects of business.

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## MAN6067: Global Business Ethics

Prerequisite: Graduate standing in the Coggin College of Business
Description: During this course, principles of ethics are applied to international business activity, the economic system of the United States and the business firm. Topics are examined from the perspective of the expatriate manager, the strategic decision-maker, stakeholder groups and non-U.S. as well as U.S. business organizations.

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MAN6204: Topics in Organizational Theory
Prerequisite: MAN 3025 or equivalent
Description: This course is a systematic approach to the design of structural components of organizations, for the purpose of increasing efficiency and effectiveness. Emphasis is primarily on internal and external determinants of structure and on the impact of structure on behavior in the organization.

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Prerequisite: MAN 3025 or equivalent
Description: This course focuses on an in-depth analysis of the major functions of Human Resource Management. Topics include the contexts of human resource management, staffing, employee development, compensation, and governance.

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## MAN6331: Compensation Management

Prerequisite: MAN 4301 or equivalent
Description: This couse provides an in-depth analysis and application of compensation planning, the determination of internal consistency, external competitiveness and individual equity, benefits management and legal compliance. Student consulting teams will each develop a company's total compensation system and make seminar presentations of their program.

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MAN6411: Labor Relations and Collective Bargaining
Prerequisite: MAN 3025 or equivalent
Description: This course explores problems in collective bargaining and managing personnel who work under a collectively bargained labor agreement. It is designed for the MBA student who intends to manage workers in accordance with a collectively bargained labor contract.

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## MAN6446: Advanced Topics in Negotiation

Prerequisite: MAN 3025 or equivalent
Description: This course is a broad-based examination of negotiation which includes theory based on studies of collective bargaining between labor and management. Emphasis is placed on experiential exercises and on improving interpersonal skills. Active participation in the learning process is stressed.

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## MAN6501: Modeling and Management of Operations

Prerequisite: ECO 6415
Description: This course provides an overview of methods and tools for planning and controlling the production and distribution of goods and services. The course includes an introduction to modeling techniques that are useful for allocating resources as well as evaluating and improving organizational processes and decisions across the firm. Managers in both manufacturing and service organizations need to understand these topics in order to increase firm value by reducing costs and required assets while maintaining or increasing output, quality, and customer service.

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## MAN6525: Process Management and Quality Improvements

## Prerequisite: MAN 6501

Description: This course examines how organizations can develop and leverage excellence in, and excellence through, continuously improving process performance and quality. The course examines and analyzes various process management techniques and quality improvement initiatives (e.g. six sigma and lean) and how both manufacturing and service firms can translate these activities into value and competitive advantage. This course is recommended for students from all functional areas of business and particularly those interested in a career

## MAN6559: Quantitative Management Analysis

Description: This course covers management science models and their applications to management decisions.

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## MAN6581: Project Management

## Prerequisite: ISM 6021

Description: This course deals with the acquisition of knowledge, skills, tools, and techniques to activities in business functional areas in order to meet the requirements of a particular project. This course involves an exploration of the project leader role, understanding the concepts of project management and techniques for controlling and optimizing the project process.

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## MAN6601: International Management

Description: This is a basic course in international business management. This course will focus on the international managerial variables that affect and influence strategic and operational decision and the conduct of business in the international environment.

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## MAN6606: Cultural Environment of Global Business

Prerequisite: MAN 5036 or equivalent, and graduate standing in the Coggin College of Business
Description: This course focuses on the primary cause of international business operations failures: cultural clashes. It analyzes the cultural perspectives that generate such problems and focuses on their proactive solutions.

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MAN6626: Global Human Resource Management

Description: This course will explore issues in global human resource management. First, it examines the multinational context and the consequences of international growth on human resource management. Second, it reviews different types of international (expatriate) assignments, and the tools and techniques vital to supporting these expatriate managers. Some of these human resource processes that impact expatriates include: recruitment and selection; training and development; and compensation. The final part of the course will focus on global issues directly pertaining to international human resource management. Some of these issues include: subsidiary management; industrial relations; and performance management.

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Prerequisite: MAN 5036 or equivalent, and graduate standing in the Coggin College of Business

Description: This course considers the management problems inherent in multinational corporations, as contrasted with those faced by managers of firms with purely domestic operations. Several dimensions, including organizational structure, performance measurement and control, and economic issues are covered. Methodologies for determining whether and how to evaluate and select locations for MNC investment and trade are also provided.

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## MAN6656: Business Environment: United States

Prerequisite: Enrollment in the Global MBA Program or permission of the instructor Description: This course examines the business environment in the United States, with particular emphasis on inter-country differences relative to Germany, Poland, and China. Students will learn about historical, political, social, environmental and economic factors that influence the business environment in the US. Particular attention will be paid to the changing relative economic power of the US resulting from globalization forces. The course requires participation in several full-day visits to companies, as well as regular classroom instruction.

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## MAN6666: Applied Intercultural Communication: United States

Prerequisite: Graduate standing in the Coggin College of Business
Description: This course investigates the link between U.S. culture and U.S. business practices with a focus on communication issues. Foundations of U.S. business culture, based upon national cultural orientations and their impact on organizational cultures are explored; along with structural variables. Cultural contrasts among business practices of U.S. organizations and business practices of organizations from other countries are analyzed.

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## MAN6667: Business Environment: Asia

Prerequisite: Graduate Standing in the Coggin College of Business This course examines the business environment in Asia, with particular emphasis on the inter-country differences within Asia. Students will learn about historical, political, social environmental and economic factors that influence the business environment in Asia. Particular attention will be paid to the changing relative power of Asian nations individually, as well as Asia as a bloc.

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MAN6668: Applied Intercultural Communication: Asia
Prerequisite: Graduate Standing in the Coggin College of Business
Description: This course investigates the link between Asian cultures and Asian business practices, focusing on communication issues. Foundations of Asian cultures and business culture are explored. Differences between Asian countries and cultures will be studied. Case studies are used to illustrate cultural difficulties faced by Asian firms of various nations doing business with foreign firms.

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#### Abstract

MAN6726: Advanced Strategic Management Prerequisite: Students must be in their last semester of graduate work, have an overall graduate GPA of 3.0 or better on their degree evaluation courses and have attained permission to register from a graduate advisor. Description: Advanced Strategic Management (ASM) is the Capstone course of the MBA program. This course requires the student to assimilate and integrate the knowledge acquired from the functional disciplines through application utilizing a strategic framework. Further, students utilize various models and theories of firm structure and performance to understand how to evaluate, allocate, and deploy the various resources that an enterprise controls in order to develop and achieve integrated strategic objectives.


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## MAN6785: E-Business Strategy

Prerequisite: ISM 6021 or permission of the instructor
Description: This course encompasses the study of current management issues associated with electronic commerce strategies.

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## MAN6875: Entrepreneurship and Venture Capital

Prerequisite: Permission of the instructor
Description: This course focuses on the entrepreneurial aspects of small business development and funding.

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## MAN6905: Directed Individual Studies in Management

Prerequisite: MAN 3025 or equivalent
Description: This course allows the MBA student to investigate selected management topics, especially those of local or regional interest.
Repeatability: The course may be repeated with a change in content up to a maximum of 6 credits.

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## MAN6931: Special Topics in Management

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Description: This course is a study of special topics not offered in other courses in the department.
Repeatability: This course may be repeated with a change in content up to a maximum of 6 credits.

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## MAN6957: Study Abroad in Management

Prerequisites: Graduate Standing in the College of Business Administration and permission of the instructor. Students will conduct advanced study of a country's business practices, with a particular emphasis on management. During this course, students will: understand the culture,
geography, history, and politics of the country; travel to the country; study the differences between business in the U.S. and business in that country; and learn about the current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip assignments.

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## Graduate Courses

## Economics

Course Descriptions:

## ECO5115: Introduction to Economic Analysis

Introduction to key analytical tools of macroeconomics and microeconomics. Application of economic analysis to current policy issues. Normally offered each term.

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ECO6257: Economic Policy
Prerequisite: ECO 5115 or equivalent. Development and application of macroeconomic analysis to public policy decision-making. Emphasis on current policy issues such as inflation and unemployment, income policies, and economic planning. Normally offered spring term of even-numbered years.

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ECO6415: Making Decisions with Data
Prerequisite: Graduate standing in the Coggin College of Business. This course teaches students to utilize data to make business decisions properly and efficiently. Students use both spreadsheets and statistical software to enter, summarize, graph, and analyze data, applying the results to a variety of real business problems. The course will normally be offered each term.

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## ECO6705: The Global Economy

Prerequisite: ECO 5115 or equivalent. The course provides the theoretical background for studying international trade and the international monetary system. Practical issues of interest to the business student, such as tariffs, import quotas, and the balance of payment, are also discussed. Normally offered fall term of odd-numbered years.

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## ECO6708: Political Economy of the Global Trading Environment

Prerequisite: Graduate standing in the Coggin College of Business. This course affords students the opportunity to analyze and understand the economic issues affecting importing and exporting. Students will examine U.S. trade patterns at the local, state, and national levels and will learn about analogous patterns in other nations. They will also learn about the various types of trade barriers employed worldwide, as well as the databases and resources available for researching these regulations. They will analyze critically the case for free trade and the arguments against it, how to conduct trade with a particular country or trading bloc, and the role of the various international economic organizations.

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Prerequisite: Consent of department chair. Study of special topics under the guidance of faculty members. May be repeated with change of content up to a maximum of six credits.

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## ECO6930: Special Topics in Economics

Prerequisites: Graduate standing in the College of Business Administration and permission of instructor. This course encompasses special topics in economics not normally offered by the department. It may be repeated with a change in content up to a maximum of nine credits.

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## ECO6957: Study Abroad in Economics

Prerequisites: Graduate standing in the College of Business Administration and permission of the instructor. Students will conduct advanced study of a country's business practices, with a particular emphasis on economics. During this course, students will: understand the culture, geography, history, and politics of the country; travel to the country; study the differences between business in the U.S. and business in that country; and learn about the current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip assignments.

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## ECP6205: Human Resource Economics

Elective course for graduate students. Analysis of labor in the marketplace. Wage determination, labor organizations, manpower problems, collective bargaining, and the impact of labor on public welfare. Normally offered fall term of even-numbered years.

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ECP6705: Economics of Business Decisions
Prerequisite: ECO 5115 or equivalent. Study of the application of economic theory to decision-making in business. Normally offered each term.

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GEO6506: Economic Geography and Geographic Information

## Systems

Prerequisites: Admitted to the MBA program. This course will familiarize students with the major geographic features of the modern business world. The geo-economic evolution of the global trading environment will be analyzed and tools of spatial analysis using GIS technology will be introduced.

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## GEO6906: Directed Individual Studies in Economic Geography

Prerequisites: Consent of department chair. Study of special topics under the guidance of faculty members. May be repeated with a change of content up to a maximum of six credits.

Prerequisite: Admission to the MBA program. The study of advanced Geographic Information Systems.

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## GEO6956: Study Abroad in Geography

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Prerequisite: Graduate standing in CCB Students will participate in advanced study of a country's business practices, drawing upon analysis of economic geography, culture, and political economy.

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## Graduate Courses

## Marketing and Logistics

## Course Descriptions:

## MAR6158: International Marketing

## Prerequisite: MAR 6805

Description: This course is an in-depth study and analysis of the role of marketing in international trade. Attention is also focused on the functions of multinational marketing and the construction of a multinational marketing strategy.

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MAR6206: Marketing Channel Systems

## Prerequisite: MAR 6805

Description: This course investigates the nature and role of marketing channels and intermediaries. Major marketing strategy problems such as designing channel objectives and constraints, distinguishing major channel alternatives, and motivating, evaluating and controlling channel members will be analyzed. This course is an elective in the MBA program.

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## MAR6726: Marketing on the Internet: Strategies and Programs

Prerequisite: MAR 6805 or permission of the instructor
Description: This course encompasses the formulation and implementation of an e-strategy and related strategic marketing plan for a product/service offering on the Internet including the development of a related company web site.

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## MAR6805: Marketing Strategy

## Prerequisite: MAN 5036 or MAR 3023

Description: This course includes a study of the development and implementation of marketing strategy to provide for superior customer, value, satisfaction, and loyalty. Topics include: mission/vision development, environmental scanning, SWOT analysis, marketing goals and objectives, and segmentation, targeting, differentiation, positioning and growth strategies. Emphasis is placed on relationship building, globalization, internal marketing, quality management, and entrepreneurship. Case studies will be emphasized .

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## MAR6816: Strategic Marketing Planning

Prerequisite: MAR 6805
Description: This course is a long-range study of changes in business unit markets which create threats to and opportunities in markets for an organization. Methods for evaluating change and integrating strategic decisions into operating plans are analyzed.

Prerequisite: MAR 6805
Description: This course allows the student to investigate special marketing topics, especially those of local and regional interest under faculty guidance.
Repeatability: This course may be repeated for up to 6 credits with different course content.
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MAR6933: Special Topics in Marketing v. 1-

Prerequisite: Permission of the instructor
Description: This course consists of analysis and discussion of advanced problem areas in marketing.
Repeatability: This course may be repeated for up to 6 credits.
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## MAR6957: Study Abroad in Marketing

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Prerequisite: Graduate standing in the Coggin College of Business and permission of the instructor
Description: This course allows students to conduct advanced study of a country's business practices, with a particular emphasis on marketing. During this course, students will: understand the culture, geography, history, and politics of the country; travel to the country; study the differences between business in the U.S. and business in that country; and learn about the current issues facing that nation. The course will have three phases: pre-trip preparation and orientation, foreign travel, and post-trip assignments.

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## TRA5223: Production, Marketing, Logistics Management

Prerequisite: Graduate standing
Description: This course is an analysis of the production, marketing and logistics functions.
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## TRA6157: e-Supply Chain Management

Prerequisite: MAN 6501 and ISM 6021 or permission of the instructor Description: This course covers the integration, operations, management and strategic implications of electronic supply chain management for manufacturing and service firms. Emphasis is placed on the processes that span multiple firms within the supply chain from source to end-customer.

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TRA6216: Strategic Logistics Management

## TRA6725: International Logistics

Prerequisite: Graduate standing in the Coggin College of Business
Description: This course covers a variety of aspects of international logistics for establishing and sustaining global operations. Issues addressed include the strategic and operational roles of logistics in international trade; the role of shipping and air transportation in international logistics and its impact on world trade; international distribution channels; the logistics mix in an international context; and the management of import/export shipments including documentation requirements.

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TRA6905: Directed Individual Study
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Prerequisite: Permission of the department chair
Description: This course is a study of special topics under faculty guidance.
Repeatability: This course may be repeated for a total of 6 credits with different course content.

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TRA6935: Special Topics in Logistics
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Prerequisite: Permission of the instructor
Description: This course is a study of topics not offered in other logistics courses in the department.
Repeatability: This course may be repeated with a change in content up to a maximum of 6 credits.

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TRA6957: Study Abroad in Transportation and Logistics v. 19

Prerequisite: Graduate standing in the Coggin College of Business and permission of the instructor
Description: This course allows students to conduct an advanced study of a country's business practices, with a particular emphasis on transportation and logistics. During this course, students will: understand the culture, geography, history, and politics of the country; travel to the country; study the differences between business in the U.S. and business in that country; and learn about the current issues facing that nation. The course will have three phases: pretrip preparation and orientation, foreign travel, and post-trip assignments.
Repeatability: This course may be repeated for a maximum of 9 credits.
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## Graduate Courses

## Art and Design

Course Descriptions:

## ART5930C: Special Topics in Art <br> v. 1-

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Prerequisite: Permission of instructor. Introductory graduate-level course in art. May be repeated for a maximum of 15 credits under different topics.

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## Graduate Courses

## Mathematics and Statistics

## Course Descriptions:

## MAA6417: Complex Analysis

Prerequisite: MAA 4211. Holomorphic functions, Cauchy's theorem. power series, conformal mapping, harmonic functions, residues.

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MAA6938: Topics in Applied Analysis
Prerequisites: MAA 4212 and permission of the department. This course will consist of topics such as Hilbert space methods, integral equations, Fourier analysis, variational methods, spectral theory, and quantum mechanics.

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MAD6405: Numerical Analysis
Prerequisites: MAC 2313, MAS 3105 and a scientific computing language. Nonlinear equations, interpolation, numerical integration, direct and indirect solutions of linear equations, eigenvalue problems and error analysis for the above numerical methods.

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## MAE6871: Mathematical Connections

Prerequisites: Graduate standing in mathematics education. In this course we study connections among various branches of mathematics. These include geometry and number theory, geometry and complex numbers, surfaces and algebra, geometry and algebra (including impossible constructions), and interesting numbers such as PI, EPISILON, IOTA, EPSILON.

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## MAE6879: Mathematical Applications Around Us

Prerequisites: Graduate standing in mathematics education. Topics will be chosen from graph theory, coding, voting and apportionment, scaling, geometric and numerical patterns in nature, probability, or other areas of application. Projects will be assigned for individual research relating mathematics to art, music, biology, game theory, or other areas of application.

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MAP6336: Ordinary Differential Equations
Prerequisites: MAP 2302, MAA 4211 and MAS 3105. Existence and uniqueness theorems, properties of solutions of ordinary differential equations, linear and non-linear systems, stability.

## MAP6345: Partial Differential Equations

Prerequisites: MAP 2302, MAS 3105 and MAA 4211. First order equations; classification of second order linear equations; wave, heat, and Laplace equations; separation of variables and Fourier Series.

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## MAP6385: Scientific Computing

Emphasis will be on the practical aspects of implementing numerical schemes and the use of well established software packages. Some consideration will be given to stability and accuracy questions. Topics may include: numerical solutions of nonlinear equations, interpolation, simulation and optimization.

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## MAP6605: Topics in Financial Mathematics

Prerequisite: MAA 4211 and 4212, STA 4321, or permission of the department. Topics will include an introduction to options and derivatives, pricing via arbitrage, binomial and multiperiod models, Brownian motion, Ito integral, Black-Scholes stochastic differential equation, and application to option pricing, hedging, valuing by utility, and exotic options.

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## MAP6932: Topics in Optimization

Prerequisites: MAA 4212, MAP 2302 and permission of instructor. This course will consist of topics such as linear and nonlinear programming, integer programming, dynamic programming, calculus of variations and optimal control.

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MAS6145: Advanced Linear Algebra
Prerequisite: MAS 3105. Vector spaces, linear transformations, eigenvalues and eigenvectors, similarity transformations, positive definite matrices, canonical forms and other topics in linear algebra.

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## MAS6218: Topics in Number Theory

Prerequisites: MHF 3203 and MAS 3203 or MAD 3107 or permission of the instructor This course will consist of topics from analytic, algebraic, computational, or elementary number theory. Possible topics include, but are not limited to: congruences, reciprocity laws, quadratic forms, prime number theorem, Diophantine equations, Gaussian sums, quadratic residues, number fields, class number, units, and partitions.

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MAS6311: Abstract Algebra
Prerequisite: MAS 4301 or permission of instructor. Algebraic structures, sub structures, quotient structures, modules, algebras and field extensions.

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Prerequisites: MAS 4301 or permission of instructor. Selected topics from ring theory, group theory, algebraic geometry, algebraic number theory, category theory, homological algebra.

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## MAS6938: Topics in Applied Algebra

Prerequisites: MAS 4301 and permission of the department. This course will consist of topics such as combinatorics, graph theory, coding theory, automata theory or design theory.

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## MAT5932: Special Topics in Mathematical Sciences

Prerequisite: Permission of the department. This is an introductory graduate level courses in mathematics, designed to support graduate programs in other departments in the University. The course may be repeated for a total of 9 credits under different topics.

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## MAT6908: Directed Individual Study

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Prerequisite: Permission of the department. May be repeated for 9 credits under different topics.

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## MAT6933: Special Topics in Mathematics

v. 1-

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Prerequisite: Permission of the department. May be repeated for 9 credits under different topics.

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## MAT6938: Seminar in Mathematics

v. 1-

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Various topics in mathematics. May be repeated for 9 credits under different topics.
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MAT6971: Thesis
v. 1-

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Prerequisite: Permission of the department. May be repeated for 6 credits.
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## STA5126: Statistical Methods for the Social Sciences

This course covers the statistical methods most often used in social science research. Topics include regression and correlation analysis, analysis of variance, categorical data and nonparametric statistics. This course cannot be used to satisfy degree requirements by statistics and mathematics majors.

## STA5931: Special Topics in Statistical Sciences

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Prerequisite: Permission of the department. This is an introductory graduate level course in statistics, designed to support graduate programs in other departments in the University. This course may be repeated for 9 credits under different topics.

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## STA6106: Computer-Intensive Methods in Statistics

Prerequisite: STA 4321. This course will cover a variety of statistical methods which are dependent on the availability of massive computational power. The course will include but is not limited to topics such as simulation techniques, randomization tests, Monte Carlo techniques, bootstrap methods, and numerical optimization methods. The course will involve extensive computer programming on the part of the students.

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## STA6166: Statistical Methods I

Prerequisite: MAS 3105 and STA 4321. This is the first in a two-term sequence in statistical methods. This course is a blend of the theory and applications of regression analysis and of the design and analysis of data. It focuses on linear regression with one predictor variable, inferences involving regression coefficients and correlation analysis, diagnostics and remedial measures, multiple linear regressions and its diagnostics, and an introduction to the analysis of variance. Emphasis is placed on the application of these techniques to data and interpretation of the results. The course uses the statistical analysis software (SAS) for data analysis.

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STA6167: Statistical Methods II
Prerequisite: STA 6166. This is the second in a two-term sequence in statistical methods. In this course, the focus is exploration of multiple regression (including model building, diagnostics, and remedial measures), multifactor studies using analysis of variance and covariance, and other topics in the analysis of categorical or multivariate data. The course uses the statistical analysis software (SAS) for data analysis.

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## STA6205: Design of Experiments

Prerequisite: STA 6166 or both STA 3163 and STA 4321 This course covers principles of design, single factor and multifactor design, randomized blocks, randomized incomplete blocks, Latin squares, factorial designs, split plot and related designs. It also covers random and mixed effects model for Analysis of Variance designs. The course uses the statistical analysis software SAS for data analysis.

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## STA6226: Sampling

Prerequisite: STA 6166 or both STA 3163 and STA 4321. This course focuses on survey designs and covers simple probability samples, ratio and regression estimation, stratified sampling, and cluster sampling with equal and unequal probabilities. Some complex survey designs may also be included. The course uses the statistical analysis software SAS for data
analysis.
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## STA6326: Mathematical Statistics I

Prerequisite: MAA 4211 and STA 4321. This is the first in a two-term sequence in mathematical statistics. It covers topics such as probability, random variables, expected values, sampling distributions, Central Limit Theorem, estimation, properties of estimators, and order statistics.

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## STA6327: Mathematical Statistics II

Prerequisite: STA 6326 This is the second in a two-term sequence in mathematical statistics. It covers introductions to the theories of point estimation, interval estimation, and hypothesis testing. Topics on sufficiency, completeness, likelihood, and their applications to the exponential family are also covered.

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## STA6446: Probability

Prerequisites: MAS 3105, MAA 4211 and STA 4321 This is a course in advanced topics in probability. It covers probability distributions, conditional probability and conditional expectations. Some of the fundamental stochastic processes (Markov chains, the Poisson process, Renewal Theory, Brownian motion) will be covered.

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## STA6505: Categorical Data Analysis

Prerequisite: STA 6166. This course is an introduction to the methods used to analyze categorical responses and contingency tables. Topics include models for binary response variables, logistic regression, logit models for categorical data, loglinear models and the estimation of model parameters.

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## STA6666: Statistical Quality Control

Prerequisite: Permission of the department. This course covers the statistical properties, as well as the design, implementation, and operation, of various statistical process control (SPC) schemes including those based on Shewhart, cumulative sum, and moving average control charts. Methods appropriate for conducting a capability study will also be covered. The role of SPC in process improvement will be examined, as well as statistical models useful in quality control. Additional selected topics such as acceptance sampling will be presented as time permits. The statistical analysis software SAS will be used extensively.

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STA6707: Multivariate Methods
Prerequisite: MAS 3105, STA 6166. This course introduces a range of multivariate methods used for analyzing complex data sets with large numbers of variables. The following topics will be covered: multivariate analysis of variance, correlation, discriminant analysis, and factor analysis.

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## STA6908: Directed Individual Study

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Prerequisite: Permission of the department. May be repeated for 9 credits under different topics.

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## STA6932: Special Topics in Statistics

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Prerequisite: Permission of the department. May be repeated for 9 credits under different topics.

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## STA6938: Seminar in Statistics

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Various topics in statistics. May be repeated for 9 credits under different topics.
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STA6940: Statistical Consulting
v. 1-

Prerequisites: Permission of instructor. The course is designed to give students hands-on experience with statistical consulting. The course covers problem formulation, statistical techniques, data analysis, and interpretation of the results of consulting problems. The course may be repeated for a total of 9 credits.

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STA6971: Thesis
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Prerequisites: Permission of the department. May be repeated for 6 credits under different topics.

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## Graduate Courses

## Biology

## Course Descriptions:

## BCH5418C: Advanced Molecular Biology and Biochemistry

Description: This course offers an advanced survey of the structure, functional properties, synthesis, and degradation of amino acids, proteins, carbohydrates, lipids, and nucleic acids. Primary literature will also be presented and critically evaluated.
Course Fees: \$51.93
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## BCH6876C: Membrane Biology

Prerequisites: PCB 4713C Physiology or by permission of instructor. This course is a lecture and laboratory offering to advanced biology students who have had introductory courses in physiology and molecular biology and wish a more in-depth exposure to current trends in membrane biology. In addition, a hands-in laboratory experience with modern experimental tools used to conduct state-of-the-art research in this area of biology will also be offered. Lecture topics will be selected from current scientific publications and laboratories will introduce students to new technical skills which will be followed by application of these skills to individual student research projects. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## BOT5186C: Advanced Marine Botany

This course is designed to offer students an in depth study of marine plants in the pelagic open-ocean and coastal environments. Primary focus will be on the ecology, biochemistry, physiology, and life history strategies of both phytoplankton and benthic marine algal communities. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## BSC5028: Advanced Biology of Aging

## Prerequisite: PCB 4713C

Description: This course will give students an in-depth comprehension of why aging occurs and the mechanisms by which aging occurs. A combination of lecture and discussion of primary papers will be used. Focus will be on studies using simple experimental models to approach the underlying cellular bases for age-related deterioration. In particular, the roles of mitochondria, chromosomes, nutrient signaling, and reproduction will be explored.

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BSC5075C: Advanced Physiology
Prerequisite: Permission of the instructor. The study of functional activities and interactions of cells, tissues, and organs, with emphasis on respiration, excitation, transport phenomena, and control mechanisms. An independent literature research project will be required. (A laboratory


#### Abstract

BSC5872: Advanced Biological Pharmacology This course focuses on the biological mechanisms of drug absorption, distribution, metabolism, excretion, and mechanisms of action with an emphasis on cellular responses to drugs. Students will learn the basic mathematical principles of pharmacokinetics and receptor binding as well as the relationship between drug concentration and effects. The mechanisms of action and side effects of the major classes of drugs will be covered as well as background information on the pathological conditions they treat. Students will review relevant journal articles from a peer reviewed pharmacological journal and lead class discussion.


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## BSC5905: Directed Independent Study: Biology

Prerequisite: Permission of instructor. Participation in a research investigation under the supervision of the instructor. May be repeated for credit.

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## BSC5930: Biology Seminar

This course consists of a lecture series by experts from a wide range of biological disciplines that students attend.

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## BSC5931: Readings Molecular Genetics

Prerequisite: Permission of instructor. This course will focus on critical readings of current primary research literature in the area of molecular genetics. Topics will include DNA structure and function, gene expression and regulation, and other related topics in either prokaryotic or eukaryotic systems. Students will lead and participate in discussions of research hypotheses, methods, and data interpretation.

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## BSC5936: Selected Topics in Biology

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Prerequisite: Permission of instructor. Introductory graduate-level course in biology. May be repeated for credit.

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## BSC6931: Advanced Readings in Biology

Prerequisite: Permission of instructor. This course will focus on in-depth reading and discussion of primary literature in biology. Before the course, the instructor will be responsible for advertising the sub-discipline in biology on which the course will focus. The exact papers to be read will depend on the interests of the instructor and the students. The readings will be a series of papers on a single topic for several weeks, so that the conversation on the topic continues from meeting to meeting.

Prerequisite: Permission of instructor. Graduate students in biology must take this course during their final semester in the program. Students must complete the written portion of their thesis and provide a public oral defense. It is required for partial fulfillment of the graduate degree in biology.

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## BSC6972: Graduate Thesis Research <br> v. 1-

Prerequisite: Acceptance into the MS Program in Biology. MS graduate students in biology must complete a minimum of 10 graduate thesis research credits in partial fulfillment of the requirements for the MS in Biology degree. Students will conduct directed independent research under the advisement of their graduate advisor and committee.

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FAS5355: Advanced Coastal Fisheries Management
Prerequisite: BSC 2012C
Description: This course is designed to offer students an in-depth study of fish population dynamics and the management of coastal living resources. Primary focus will be on the physical, biological and human factors that regulate coastal fish populations, methods for estimating life history parameters, development of quantitative models to assess fishery stocks, and understanding the implications of management decisions on fishery stakeholders. Students will be required to complete a mini stock assessment using real data sets available from the literature or regional coastal management agencies (e.g., Florida Fish \& Wildlife Commission, South Atlantic Fisheries Management Council).

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## FAS6355L: Advanced Coastal Fisheries Management Laboratory

Co-requisite: FAS 5355
Description: This laboratory course is designed to offer students hands-on experience modeling fish population dynamics. The primary focus will be on the estimation of life history parameters and the development of rigorous quantitative models to assess fish populations using real data from regionally, federally, and internationally managed fish stocks. Students will apply the knowledge and skills learned during the semester to conduct an independent project with results presented in both written and oral reports.

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## MCB5024C: Advanced Molecular Biology Techniques

Prerequisite: PCB 3023C or by permission of the instructor This course will provide students with skills necessary to participate in biomedical research programs. Modern biology techniques related to recombinant DNA and proteins will be presented and practiced within a laboratory setting. Experimental design, data analysis, and data presentation will also be addressed. (A laboratory fee of $\$ 51.93$ will be assessed.)

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Prerequisite: MCB 2010C or MCB 3020C
Description: This course will delve into the biologic basis of infectious diseases. It will emphasize bacterial infections, the principles of the host-parasite relationship, the pathogenic characteristics and virulence factors of micro-organisms, and the various modes of action of antimicrobial agents. Three hours lecture.

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## MCB5505: Advanced Virology

Description: A structure/function approach to understanding the virus lifecycle will be used to investigate animal, bacterial, plant, and insect viruses. Focus on the history of Virology, virus structure, genetics, biocontainment, and current topics will assist in the understanding of the nature of viruses and unconventional agents. Current review of primary literature is required.

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## MCB6175C: Integrative Microscopy

The theoretical aspects of Bright Field, Dark Field, Phase Contrast, Fluorescence, Confocal and Electron Microscopy will be discussed. Mastery of specimen preparation techniques, thick and thin sectioning, special staining, freeze fracture, enzyme histochemistry, immunolabelling, and heavy metal staining will be accomplished. These advanced techniques will allow students to observe cellular structure and ultrastructure, while the use of specific labels to probe for macromolecules will emphasize the link between structure and function in biology. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## PCB5106: Cellular Biology

BA or BS in a natural science area. A study of cell structure and functions with emphasis on the structure and function of intracellular organelles and their biochemistry. Three hours lecture.

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## PCB5235: Cellular Immunology

Prerequisite: PCB 3023C The course is an overview of the cellular basis of innate and acquired immunity. Topics include antibody-antigen interactions, organization of antibody genes, mechanisms of $B$ cell and $T$ cell activation, the major histocompatibility complex, complement, and cell-mediated cytotoxic responses.

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## PCB5525: Molecular Genetics

Prerequisite: PCB 3023C, BCH 4033, PCB 3063C. This course will detail the molecular basis of inheritance in both prokaryotes and eukaryotes. Topics will cover the structure and function of DNA, including replication, repair, and recombination. Expressions of genes including transcription, translation, and processing of RNA will be covered, as well as regulation of these events. These processes will then be incorporated into the role of gene function in signal transduction and development.

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Prerequisite: PCB 3023C. The course is an overview of structure-function relationships in the
nervous system at the molecular level. Topics include development of neurons, neuronspecific gene expression, mechanisms of neuronal plasticity in learning and memory, synaptic release, molecular biology of neurological disorders, and molecular neurophramacology. Written and oral presentations are assigned to enhance students' communication skills.

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## PCB6236: Advanced Cancer Biology

Permission of Instructor. This course will focus on cancer biology at the molecular and cellular level. Changes in the genetics and behavior of cancer cells, as well as the causes of these changes will be discussed. Current aspects of cancer epidemiology and treatment will also be covered. Students who successfully complete the course will have a thorough understanding of cancer biology at the cellular level.

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## PCB6307C: Freshwater Ecology

This course involves the study of inland waters which includes lakes, streams, rivers, and wetlands. Subjects include physical, chemical, and biological limnology, with an emphasis on ecological applications. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## PCB6314C: Marine Ecology

This course focuses on the distribution and dynamics of marine populations in relation to the physical and chemical environment of the ocean. (Open to certified biology teachers by permission of the instructor.) This course includes three hours of lecture and one hour of laboratory. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## PCB6335C: Estuarine Ecology

Prerequisite: Graduate status, PCB 3043C or equivalent Estuarine ecology involves an examination of the unique physical, chemical, \& biological interactions within estuaries, emphasizing energy flow and nutrient cycles. The lecture portion of this course consists of two parts, a brief general introduction and overview followed by forays into specific areas of Estuarine Ecology. The introduction portion of the course is designed to bring graduate students with diverse backgrounds to the same point by the end of the semester with respect to basic Geological, Biological, Chemical, and Ecological principles relating to estuaries. The remainder of the course will examine specialized topics which are of current interest or which have played important roles in the development of the field. Students will be introduced to these advanced topics through guest lectures, scientific papers and field work. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## PCB6395C: Environmental Physiology

Prerequisite: PCB 4713C or permission of the instructor. This course is designed to prepare students to conduct graduate research in environmental physiology or a related field. Students will learn how animals cope with challenging, changing environments. The themes of the course will be acclimation, or physiological adjustment to a new environment, and physiological adaptation, or genetic change of regulatory mechanisms. (A laboratory fee of $\$ 51.93$ will be assessed.)

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PREREQS: PCB 3043C or permission of the instructor. This course will offer an in depth examination of wetlands habitats, including both marine and freshwater systems. In addition to learning about the fundamental systems, students will also be exposed to current research in freshwater and marine wetlands ecology. Much of the focus will be on systems within the Florida area, but other habitat types will also be introduced.

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## PCB6447: Community Ecology

Prerequisite: PCB 3043C. This course will be an in-depth examination of community ecology, with emphasis on diversity, stability, trophic structure, and the processes that affect community structure.

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## PCB6480: Quantitative Ecology

Prerequisite: PCB 3043C or equivalent This course will focus on how to design, conduct, and analyze some of the most frequently employed ecological experiments. Types of studies discussed will include (but are not limited to) assessing biodiversity, determining environmental constraints on population growth, and calculation of ecophysiological tolerances. Emphasis will be placed on how to effectively design studies to test hypotheses in heterogeneous natural environments and how to interpret experimental results.

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PCB6675: Advanced Evolution
Prerequisite: PCB 3043C, PCB 3063C or permission of the instructor.
Description: Evolution is the unifying theory of biology, linking fields as diverse as biochemistry and ecology, genetics and anatomy. In this course we will investigate both the wealth of evidence for evolution by common descent and the genetic and ecological mechanisms by which evolution occurs in natural populations. Students will be required to independently analyze current literature articles on evolutionary research on a weekly basis. In addition we will cover the history of evolutionary biology from pre-Darwinism views to present day controversies, and the key events that have lead to our current understanding of the subject.

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## PCB6685: Population Genetics

Prerequisite: PCB 3063C or permission of the instructor. Understanding the genetic processes at work in natural populations is essential to the understanding of many biological fields including Evolution and Ecology. In this course we will discuss the basic mechanisms of population genetic change, such as mutation, non-random mating, genetic drift and natural selection. We will also cover topics such as quantitative genetics and molecular evolution.

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## ZOO5209C: Advanced Coastal Invertebrate Biology

This course will include an examination of the diversity, ecology, and evolutionary history of aquatic invertebrates in coastal habitats. Current topics such as sea level rise and pollution of aquatic habitats will be discussed. Students will also learn how to collect data on invertebrate diversity and use these data in an environmental bioassessment context.This course includes experimentation with living and/or preserved animals. (A laboratory fee of $\$ 51.93$ will be assessed.)

## ZOO5235C: Advanced Parasitology

Prerequisites: BSC 2020C, ZOO 3713C or permission of the instructor. This course covers the biology of the most important human parasites and touches many of veterinary significance. We will consider representatives from the protistans, platyhelminthes, nematodes, and a few arthropods. Topics will include evolution, geographic range, anatomy, physiology, epidemiology and life cycles, disease caused, and treatments and cures. Students will complete a review paper on a topic of their choice in the field of Parasitology. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## ZOO5455C: Advanced Ichthyology

Prerequisites: PCB 4713C or permission of the instructor. Ichthyology is the study of fishes. Topics covered during this course include anatomy, physiology, taxonomic diversity, life history, ecology, and behavior of fishes. Different techniques for the study of fishes will be introduced during the laboratory section. Students will be required to do an independent research project in fish biology. The laboratory involves experimentation with living animals and/or dissection of preserved animals. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## ZOO5463C: Advanced Herpetology

Prerequisites: BSC 2020C, ZOO 3713C or permission of the instructor. In this course we will study the biology of two vertebrate classes, the Amphibia and Reptilia. We will consider some critical evolutionary adaptations emphasizing anatomy and physiology of each of these groups, and then survey important members of various families. The first half of the course is devoted to amphibians, and the second half to reptiles. Students will read about a topic, plan a study, collect data, and write a term paper in the field of Herpetology. This course includes dissection and experimentation on live and/or preserved animals. (A laboratory fee of \$51.93 will be assessed.)

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## Z005487C: Advanced Biology of Marine Mammals

Prerequisite: Graduate standing and permission of instructor This course focuses on the biology and ecology of marine mammals. Emphasis will be placed upon understanding how marine mammals are adapted to their environment. Selected topics would include taxonomy, zoogeography, anatomy, physiology, behavior, conservation and management of marine mammals. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## ZOO5717C: Canine Anatomy

Prerequisites: BSC 2020C, ZOO 3713C or permission of the instructor. In this course we will study the dog as a model for mammalian anatomy. The emphasis will be on laboratory dissections, which are held three times per week, and will be supplemented with two lectures per week. The dissections approaches are often those taken for surgery, and many structures not located in previous courses will be found. Students will be required to conduct advanced dissections of selected anatomical structures. (A laboratory fee of $\$ 51.93$ will be assessed.)

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Prerequisite: Permission of instructor Students will receive instruction concerning the structure and function of cells, tissues, and organs. Students will learn to recognize and identify all major cell types in the human body. The histological of cell function will be stressed. The course will be three hours lecture and four hours laboratory per week. The laboratory involves experimentation with living animals and/or dissection of preserved animals. (A laboratory fee of $\$ 51.93$ will be assessed.)

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## Graduate Courses

## Music

## Course Descriptions:

## MUS5930: Special Topics in Music <br> v. 1-

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Prerequisite: Permission of instructor. Introductory graduate level course in music. May be repeated for 6 credits under different topics

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## Graduate Courses

## Chemistry

## Course Descriptions:

## BCH5025C: Biochemistry

Prerequisite: Graduate standing or permission of instructor. A study of the molecular basis of life emphasizing macromolecular structure and function and the production of cellular energy. Three hours lecture, four hours laboratory. (A laboratory fee of $\$ 59$ will be assessed.)

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## CHM5931: Selected Topics in Chemistry

v. 1-

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Prerequisite: Permission of instructor. Introductory graduate level courses in chemistry. May be repeated for a total of 12 credits.

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## Graduate Courses

## Philosophy and Religious Studies

## Course Descriptions:

## PHH5505: 19th Century Philosophy

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics or Admission to the Graduate Certificate in Applied Ethics or permission of the Philosophy Graduate Coordinator This course examines the important intellectual developments that follow the French Revolution and the work of Immanuel Kant, leading throughout the writings of the Frierich Nietzsche. Nineteenth century or late modern philosophy represents a referendum on the values and assumptions not only of Enlightenment thought but modern reason itself. Focusing on the writings of Schiller, Hegel, Marx, Kierkegaard, and Nietzsche, we explore how nineteenth century theorists sought to extend the project of modernity while acknowledging that modern reason can have consequences that undermine its objective to subject the natural and human worlds to rational control. In examining these writers' theories we also explore how their reflections may assist us in considering the problems and prospects out own age. Students in this graduate section will have special writing, reading, and presentation assignments; they will also participate in special sessions with the instructor.

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## PHI5605: Ethics

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. Ethics considers questions such as "How should I live?" and "How do I decide the right thing to do and why should I do it?" This course deals with those questions in the areas of moral metaphysics, meta-ethics and normative theories of moral conduct which come from the history of philosophy back to the time of Plato and Aristotle. Other theorists to be discussed include Immanuel Kant and John Stuart Mill, and may include figures such as Thomas Hobbes, David Hume, as well as contemporary theorists.

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## PHI5627: Ethics of Sex and Gender

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course will explore ethical dimensions of sex and gender and the gendered dimensions of ethical thought and practice. We will ask whether women and men approach moral problems differently and whether women's traditional concerns, such as child care, can enhance ethical theory. We will also consider how "feminist ethics" has been altered by the perspectives of women in different social locations. We also address practical ethical issues related to sex and gender, such as reproductive technologies, prostitution, and militarism. We will explore each of these topics from a variety of both masculine and feminine perspectives.

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course examines the theoretical foundations of business ethics as well as various ethical issues which arise on personal, corporate, national and global levels in the business world. The course will include: an examination of a philosophical context for business ethics; and exploration of relevant ethical and social-political theories; consideration and discussion of real-world business ethical issues. Readings and lectures will be complemented by class discussion and an ongoing focus on case studies.

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#### Abstract

PHI5634: Bioethics Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics or admission to the Graduate Certificate in Applied Ethics or permission of the Philosophy Graduate Coordinator. This course employs tools of ethical theory to examine a number of moral issues arising in health care. Issues to be considered include the physician-patient relationship, informed consent, advance directives, euthanasia, and physician-assisted suicide, experimentation on human subjects, and access to health care. Throughout this course we will examine assumptions about rights, persons, and ethical principles at play in the medical arena. Readings will include discussions of ethical principles in medial contexts, legal decisions, and case studies, providing students with the opportunity to sharpen their analytic skills and develop a deeper understanding of some of the major bioethical issues currently being debated.


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## PHI5668: Ethics East and West

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course explores ethical theory and some contemporary ethical problems from the perspective of comparative philosophy. The focus will be on Asian approaches to ethics, and how differing views of nature and human nature alter the quest for what is good and for the good life. We will discuss the Hindu, Confucian, Taoist and Buddhist traditions, as well as contemporary Japanese theory.

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## PHI5675: Moral Conflict

Prerequisite: Admission to the MA in practical philosophy and applied ethics or admission to the grad certif. in applied ethics or permission of the philosophy grad coordinator This course will examine both the philosophical and practical issues raised by (apparent) fact that values can come into conflict. We will examine potential tensions both within morality (between liberty and equality for instance) and between morality and other evaluative concerns (such as selfinterest). Question to be considered include: do moral values necessarily harmonize with one another? Might the idea of all good things co-existing be conceptually incoherent? If one comes to think that moral values are inevitably in tension with one another, what philosophical and practical upshot should this have? How much, if at all, can moral theory help in resolving moral dilemmas? Does liberalism, as some have argued, embody the best form of sociopolitical response to the plural and conflicting nature of value?

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## PHI5677: Ethical Issues in Public Health

This course introduces students to moral issues in public health. Students will learn to recognize relevant moral issues and analyze them in light of basic ethical principles. Topics to be covered may include allocation of scarce health care resources, public vs. private health care funding, access to care, ethics and infectious disease control (STDs, HIV, TB), public health genetics (screening programs and individual testing/counseling), and research ethics in public health (e.g. experimenting on uninformed populations). Case analysis and group

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course will cover intrinsic and instrumental value approaches to environmental ethics, alternative environmental ethical approaches, and special environmental ethical issues. The goal of the course is to familiarize students with all the major approaches to environmental ethics and with a few particularly philosophically interesting environmental ethical issues. Student will appreciate and understand the complexity and intricacy of the arguments involved in adopting one approach or position over another.

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## PHI5808: Aesthetics

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course will examine questions such as What is art? What is beauty? What is the nature of the aesthetic experience? What is an aesthetic object? What is the role of the creativity in making and judging art? Can a work of art have more than one meaning? What is the role of the art critic? and Can art be immoral? We will examine the theories of philosophers and members of the art community from the time of Plato to the present day.

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## PHI5886: Ethics and Literature

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course explores the ways in which ethical theory and literature inform one another. We will consider how ethical perspectives are illustrated in works of fiction, and whether fiction itself can be a form of moral philosophy. Students should gain an understanding of several moral theories, develop an appreciation of the importance of fictional narrative to ethical life and theory, and of the potential value of moral philosophy to literary criticism.

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## PHI5934: Selected Topics

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course addresses variable topics in practical philosophy and applied ethics.

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## PHI6125: Ancient Greek Ethics

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. In this course we study the origins of Western ethical thought in ancient Greece. Beginning with Aristotle, we will go on to examine the work of the Hellenistic philosophers, who more fully developed several distinctive schools of ethical thought and behavior. While these philosophers are interesting in themselves, they are also important because they formulated the basis of contemporary ethics, both in the questions asked and in the solutions offered.

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## PHI6225: Philosophy of Language

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics or Admission to the Graduate Certificate in Applied Ethics or permission of the Philosophy Graduate Coordinator The course explores the lasting significance of the linguistics turn in philosophy, including its different philosophical perspectives in analytic philosophy, speech act theory, semiotics and poststructuralism, and philosophical hermeneutics. Central questions include: What is the role of language for human consciousness and experience? How is linguistics meaning constituted, and what are its essential components? What is the basic structure of language, and how does it affect our access to reality? What is the relation between language and truth? What is the role of language and linguistic meaning for the constitution of culture, society, and politics? The course clarifies concepts like consciousness, meaning, reflexivity, truth, reference, normatively, and social practices through the philosophy of language. The course's approach to language is highly relevant for central issues in the graduate program concerning practical philosophy, including intercultural values and norms, the relation between moral agency and social contexts, and the normative grounds of a critique of power. Graduate students will be required to demonstrate graduate-level proficiency in research.

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## PHI6405: Philosophy of Science

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course is a philosophical exploration or nature and the foundations of both the natural and the social sciences. Topics will include the structure of scientific explanation, the nature of theories, the possibility of scientific revolution, the idea of a science of human behavior and the relationship between science and human values.

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## PHI6425: Philosophy of the Social Sciences

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course is an examination of the nature, foundations, and aims of the social sciences. Attention is given to differing accounts of human action, the nature of social explanation, the structure of comparative social analysis, and the conditions for societal evaluation. Special consideration is given to the relationship of the social sciences to the humanities and the natural sciences.

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## PHI6458: Philosophy of Psychiatry

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics or admission to the Graduate Certificate in Applied Ethics or permission of the Philosophy Graduate Coordinator. This course examines the philosophical and ethical issues raised by the theory and practice of psychiatry. Questions to be considered are: What philosophical and ethical problems are raised by the very idea of "mental health"? In what sense do different approaches to psychiatric care embody different underlying philosophical assumptions? What different philosophical reasons are there for thinking that psychiatric treatment should be aimed at the mind, the brain, behavior, the self, the soul, or the whole person? What are the philosophical and ethical assumptions behind psychoanalysis? Is psychoanalysis a science, and does it matter if it is not? What philosophical and ethical questions are raised by the use of medication in psychiatric practice?

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Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics or Admission to the Graduate Certificate in Applied Ethics or permission of the Philosophy Graduate Coordinator Self-deception is a common phenomenon. In fact, nearly everyone seems to have a friend or family member who they think is self-deceived-e.g., about the faithfulness of his or her lover, about his or her beliefs for (or against) a particular religion or political party, and so forth. This apparent ability to lie to oneself ion the face of the evidence seems to be a rather contemptuous vice. However, recent psychological studies seem to suggest that at least some forms of self-deception are life-enhancing. Thus, it might seem that self-deception can be a virtue. In this course, we examine the nature of self-deception, evaluate its ambiguous ethical status, and reflect on how these insights should affect the way that we live. In addition to satisfying the undergraduate requirements for the course, graduate students will be required to demonstrate graduate-level research proficiency both in writing and in oral presentation of written research.

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## PHI6907: Directed Independent Study

Prerequisite: Graduate Status; permission of instructor, graduate coordinator, and department chairperson. This course is an investigation of a topic in philosophy at the advanced level. The course may be repeated for 6 credits under different topics.

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## PHI6936: Advanced Selected Topics

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course addresses variable topics in practical philosophy and applied ethics.

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## PHI6937: Proseminar I: Themes and Methods in Practical Philosophy

 3Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course establishes conceptual links between social knowledge and its ethical application. Goals include a solid grounding in the most advanced moral, social, political, and cultural philosophies, with emphasis on relating general theoretical insights to concrete ethical issues and framing pressing practical problems in both a normative and a holistic manner.

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PHI6938: Proseminar II: Themes and Methods in Applied Ethics
Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course offers an advanced study of the methods of applying ethical theory to range of actual issues encountered in the professions, such as physician assisted suicide, cloning, health care reform, human subject research, faith-based initiatives, and corporate responsibility. It addresses the normative dimension of applied ethics and the cognitive unity of applied ethics as a field.

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Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics or admission to the Graduate Certificate in Applied Ethics or permission of the Philosophy Graduate Coordinator.
Description: This course focuses on: (1) documented hours of work experience with ethics committees, compliance boards, or other appropriate opportunities; (2) a written report of the problems encountered and the solutions offered, with particular emphasis on the student's contributions; and (3) an oral defense of the report before a departmental committee.
Repeatability: This course may be repeated up to 15 credits with permission of the graduate coordinator.

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## PHI6951: Portfolio Preparation

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Prerequisite: Admission to the M.A. in Practical Philosophy and Applied Ethics or permission of the Philosophy Graduate Coordinator
Description: A student in this course will be expected to (1) assemble a portfolio of course papers composed during his or her tenure in the MA program; (2) prepare a portfolio essay addressing themes common to the portfolio papers; and (3) participate in an oral defense of the portfolio and portfolio essay before a departmental committee. All work will be conducted under the supervision of a portfolio advisor.
Repeatability: This course may be repeated for up to 9 credits with permission of the graduate coordinator.

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## PHI6971: Thesis

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics or admission to the Graduate Certificate in Applied Ethics or permission of the Philosophy Graduate Coordinator.
Description: This course focuses on research and writing. It may be repeated for up to 15 credit hours with permission from the graduate coordinator.

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## PHM5056: Ethical Issues in Death and Dying

Prerequisite: Admission to the MA in practical philosophy and applied ethics or admission to the grad certificate in applied ethics or permission of the philosophy grad coord. In this course, we take a philosophical approach to death and dying in order to understand and analyze some of the ethical, medical, psychological, and legal issues surrounding death and dying. Topics to be covered include whether life is always preferable to death, deciding how much control we should have over our own deaths, how much control (if any) advance directives should have in directing end-of-life treatment plans, how much money should be spend on expensive treatments which provide little benefit, the right of hospitals to decide when life prolonging treatment is futile, the moral obligation of doctors to tell their patients their prognosis, different criteria for determining death, and whether one is allowed to bring about or assist in the death of another.

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Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course is an analysis and evaluation of different accounts of society, social
order, and human sociation. Readings come from classical social philosophers and contemporary social theorists.

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## PHM5305: Political Philosophy

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course is an examination of central concepts in political thought, including rights, laws, justice, liberty, obligation, political sovereignty, legitimate authority and the nature of political community. Emphasis is placed on classical theories and their relation to contemporary issues.

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## PHM5365: Philosophy of Democracy

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course is a philosophical exploration of the nature of democracy. Principal consideration is given to ancient Greek, classical modern and contemporary accounts of democratic theory. Themes in democratic theory are also examined as they pertain to notions such as constitutionalism, group representation, worker self management, media politics, multiculturalism, feminism, and globalism.

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## PHM5366: Global Justice

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics or Admission to the Graduate Certificate in Applied Ethics or permission of the Philosophy Graduate Coordinator This course examines the phenomenon of globalization from a moral and ethical perspective. Questions include the following: What are universal human rights and how are they compatible with the diversity of cultural practices and traditions worldwide? What duties do we have to the global environment? What obligations, if any, do members of affluent countries have to address world hunger and poverty? What are the forms of governance appropriate to a globalized world? Is humanitarian military intervention in the internal affair of another country justifiable? Should we understand ourselves first and foremost as citizens of the world or as members of bounded communities? Students in this graduate section will have special writing, reading, and presentation assignments; they will also participate in special session with the instructor.

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## PHM5405: Philosophy of Law

Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. The focus of this course is on such concepts as justice, rights, civil liberties, authority, responsibility and punishment. Attention is also given to the relation of law to psychiatry and to morality.

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PHM6345: Contemporary Political Philosophy
Prerequisite: Admission to the MA in Practical Philosophy and Applied Ethics OR admission to the Graduate Certificate in Applied Ethics OR permission of the Philosophy Graduate Coordinator. This course examines main trends in recent and current political philosophy. Emphasis is on contemporary philosophical treatments of concepts like rights, liberty, justice,
equality, democracy, power, the state, and the political itself. These concepts are explored while examining (a) new theoretical developments like communitarianism, feminism, poststructuralism, hermeneutics, discourse and difference theory, and (b) current reformulations of such classical positions as utilitarianism, liberalism, socialism, and republicanism.

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## PHP5794: Pragmatism

Pre-req: Admission to the MA in Practical Philosophy and Applied Ethics or admission to the Graduate Certificate in Applied Ethics or permission of the Philosophy Graduate Coordinator. Pragmatism is perhaps the most enduring and respected of the distinctly American philosophies. Controversial since its beginnings in the latter half of the 19th Century, many contemporary philosophers still embrace it today, in spite of its persistent critics. In this course, we will examine the writings of major pragmatists, both historical and contemporary. Among the philosophers whose views we will examine are James, Peirce, and Dewey. For each philosopher, our task will be to understand both what the philosopher's views are and how those views relate to the views of other pragmatists. The goal is to arrive at a broad understanding of just what it means to be a pragmatist. In addition, we will critically evaluate each individual's views, and the views of pragmatists more generally.

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## Graduate Courses

## Communication

## Course Descriptions:

## MMC5935: Topics in Communications <br> v. 1-

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Prerequisite: Graduate standing or permission of instructor. Study and report on current topics or problems in communications. May be repeated for a maximum of 9 credits under different topics.

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## Graduate Courses

## Physics

## Course Descriptions:

## PHY5936: Selected Topics in Physics <br> v. 1-

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Prerequisite: Permission of the instructor
Description: This is an introductory graduate level course in physics.
Repeatability: This course may be repeated up to 12 credits under different topics.
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## Graduate Courses

## Criminal Justice

## Course Descriptions:

## CCJ5050: Pro-Seminar in Deviance, Criminology, and Criminal Justice

Intensive overview of the fields of social deviance, criminology, and the modern criminal justice system. Accelerated course designed for post-baccalaureate students. For prospective MSCJ students, fulfills prerequisite requirements for CCJ 3603, but does not count toward the 36 hour MSCJ degree requirement.

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CCJ5066: Poverty and Crime

Description: This course explores the relationship between poverty and crime, particularly in terms of theory and research about social class inequalities and contexts that enable criminogenic conditions. Public discourse about socio-economically marginal groups, the role this discourse plays in politics and policy creation about crime, and the effects on those in poverty will be examined.

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CCJ5079: Crime Mapping

Description: This course introduces students to the use of Geographic Information Systems in the criminal justice system. Specifically, students will examine how theory and technology can be applied to analyze crime patterns, guide the deployment of police officers, and inform offender reentry efforts. The class will teach students to assess and/or conduct research using the appropriate qualitative and quantitative research designs on researchable topics.

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CCJ5346: Crisis Intervention and Collective Behavior
An overview of various crisis intervention techniques applicable to criminal justice personnel. Also, an analysis of crowds and collective behavior phenomena, and methods for managing such situations. Includes role-playing.

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CCJ5456: Criminal Justice Administration Theory and Practice
Study of organization, communication, and motivation theories and their operational implications as they pertain to the structure and function of criminal justice entities. Includes an analysis of selected real or hypothetical cases from the criminal justice system and problemsolving exercises.

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## CCJ5475: Criminal Justice Planning and Evaluation

Prerequisite: CCJ 6706. Examination of research design and execution of issues and techniques specific to components of the criminal justice system. Students prepare and present progressively more comprehensive treatment of selected actual and hypothetical cases.

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## CCJ5635: Comparative Criminal Justice Systems

Examination of the analogues of law enforcement, judicial, and correctional systems of a number of specific cultures and/or societies. The particular societies chosen for comparison will differ depending on the instructor.

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## CCJ5646: Organized Crime

This course explores criminality undertaken by groups of individuals strategically associated for the purpose of criminal activity. It is designed to introduce students to an understanding of what organized crime is, its history, evolution, and the criminal enterprises that make up organized crime. Attention is given to the cooperation between the government and organized crime as well as the legal response to this form of criminal activity. Theoretical explanations of organized crime are explored as well as the interplay between organized crime, terrorism, international crime, and technology.

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## CCJ5652: Drugs, Crime and Society

Description: This course will explore criminalization of psychoactive chemicals in the US from 1850 to the present day. Primary focus will be on contemporary drug usage and the attempts to control substance abuse and the consequences for both individuals and society of criminalizing drug use. Illicit drug markets and the effectiveness of prohibition and â€œwars on drugsâ€ will also be explored.

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## CCJ5665: Victimology

The study of victims of crimes of property and violence. The relationships between offender and victim, patterns of victim response and methods of victim assistance will be included.

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## CCJ5668: Elite Crime

The etiology, nature, and proposed solutions to the crimes committed by individuals and/or organizations with a preponderance of wealth, status, and/or power. Crimes in large corporations, government, and various dimensions of organized criminal activity will be considered.

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## CCJ5684: Family Violence

This graduate seminar is an overview of issues regarding domestic violence. Theory, definition and methodology in terms of intimate and family relationships ranging from child abuse to
intimate partner violence to elder abuse will be examined. Attention will be paid to structural inequalities and how they emerge in social institutions and contexts that intersect with domestic violence. Discussions include how family violence is approached by scholars, practitioners, professionals and the general public, and possibilities for alleviating this social problem.

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## CCJ5692: Women and Crime

Prerequisite: CJL 4310 This course focuses on an analysis of the roles and experiences of women as victims, criminal offenders, prisoners, and professional in relationship to the criminal justice system. Particular emphasis is placed on the gendered nature of crime and social control. Questions regarding the validity of criminological theory to explaining women's involvement in crime are also discussed

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## CCJ5743: Graduate Supervised Research Experience in Criminal Justice

Prerequisite: Permission of the Department Under the direction of faculty students will explore all elements of criminal justice research, including initial planning and preparation, the literature review, data collection, analysis, interpretation of the findings, and report writing. Students will also learn, first hand, the procedures for developing scholarly research for publication. May be repeated once for a maximum of 6 credit hours.

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## CCJ5930: Issues in Modern Criminal Justice

This course is an in-depth focus upon major concerns in contemporary American justice. Specific areas of student will include technology, political pressures, and internal management problems.

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## CCJ5934: Special Topics in Criminal Justice

Prerequisite: Permission of instructor. Forum for special courses for graduate students, focusing upon topics and issues not normally addressed in the general curriculum. May be repeated for a maximum of 9 credits under different topics.

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## CCJ6050: Criminal Justice Systems

Prerequisite: Admission to the program. This course examines the philosophical, legal, and contemporary operation of the criminal justice system in the American Democracy. Particular emphasis is placed on the tension between Due Process and Crime Control; the differences between policy and practice; and the interaction between the actors of the system and the community. The course also explores the effectiveness of the American Criminal Justice System and profiles inmate populations.

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Prerequisite: Admission to program. In-depth consideration of biological, psychological, and sociological theories of criminal behavior. Sociological, economical and political theories of law formation and law-breaking from historical and contemporary perspectives also are
considered.
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## CCJ6639: Issues in Social and Criminal Justice

Description: This graduate seminar explores sources of inequality in the application of criminal law, including concerns about disparities in the social class, race, and gender status both in prosecution of crimes and ultimately incarceration. How multiple and overlapping sources of inequality (â€œintersectionsâ€) operate simultaneously against particular groupings of citizens is explored. Sources of power, social control and inequality are examined in relation to the broader application of criminal law, punishment, and victimization.

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## CCJ6705: Advanced Methods of Criminological Research

Prerequisite: Admission to the program. Research design, data collection, analysis, and interpretation of data pertaining to criminological research. Advanced techniques in such methods as survey research, content analysis, and participant observation are explored.

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## CCJ6706: Quantitative Research Methods

Prerequisites: Admission to the program and completion of an undergraduate methods or statistical course CCJ 6705 This course introduces graduate students to quantitative social science research and its applications to the field of criminology and criminal justice. This course examines techniques used in research, discusses how to design and conduct research projects, and how to analyze the results of such projects utilizing advanced computer statistical analysis software.

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## CCJ6709: Qualitative Research Methods

Prerequisite: Admission to the Program, CCJ 6705. This course introduces students to methods used in field studies including participation, observation and interviewing. The course involves a directed field experience and intense instruction in the collection and analysis of qualitative data. Students will be expected to produce an empirical paper at the conclusion of the course.

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## CCJ6906: Directed Independent Study

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Prerequisite: Permission of instructor. Independent study of a narrow issue or topic in criminal justice, directed by a faculty member specializing in that issue or topic. May be repeated for a maximum of 12 credits under different topics.

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## CCJ6944: Graduate Supervised Teaching Experience in Criminal Justice

Prerequisite: Permission of the Department. Under the direction of faculty, the student participates in the planning, research, preparation, presentation, and examination aspects of the conduct of a section of an undergraduate criminal justice course. The student assumes progressively greater responsibility in each area. May be repeated for a maximum of 12
credits under different topics.
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## CCJ6946: Graduate Practicum in Criminal Justice <br> v. $3-$

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Prerequisite: Permission of the Department. A planned program of experience in a criminal justice agency. The student functions under the direction of agency personnel in a role analogous to that of an agency employee. Periodic meetings with supervising faculty facilitate preparation of a written report demonstrating the student's synthesis of theory and practice. May be repeated twice for a maximum of 6 credits under different topics.

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## CCJ6974: Thesis/Demonstration Project

Prerequisite: Permission of the Department. Under the direction of the faculty, the student designs and presents a project of his or her own conception which involves the completion of field research, the execution of a demonstration program or system, or a completed proposal of comparable quality and magnitude. May be repeated twice for a maximum of 6 credits under different topics.

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## CJC5020: History and Philosophy of Corrections

An in-depth analysis in the history of social responses to deviance and crime and their underlying philosophical bases. Includes exploration of ancient and traditional punishments, the penitentiary and reformatory movement in the U.S., and analysis of current philosophical movements which affect modern practices.

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CJC5135: Prisons and Jails

Description: The purpose of this course is to expose students to a variety of perspectives about the functions of the largest and most expensive component of the United States criminal justice system â€" prisons and jails. This course will examine the philosophical, technological, and managerial influences on contemporary criminal justice institutions. This course will also address the growth in the number of inmates and number of institutions, the expense of operating a correctional system, challenges faced by correctional staff, and the incarceration experience of inmates.

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CJC5165: Community Corrections and Offender Reentry

Description: This graduate course offers an in-depth look at corrections in the community (e.g., probation, parole, electronic monitoring, work release, halfway houses, day reporting centers). The evolution of community corrections, the financial and social costs of managing offenders in the community, the overall effectiveness of community-based programs, and the emphasis on offender reentry efforts will be discussed.

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The exploration of how individual and group counseling strategies and techniques can be applied in situations particular to criminal justice; analysis of factors common to criminal justice settings which may affect counseling effectiveness.

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## CJC5425: Methods of Offender Treatment

Description: This course examines â€œwhat worksâ€ and what â€œdoesnâ€ ${ }^{\text {TM } t ~ w o r k a ̂ € ~ i n ~}$ treating offenders. Special attention is given to the principles of effective intervention, offender assessment, theory, and evidence-based practices. Institutional and community-based treatment, programs appropriate for use with special populations, and the importance of rehabilitation to the correctional system and to society will be discussed.

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## CJC5520: Punishment and Society

Description: The course explores the social roles of punishment, including both instrumental and expressive functions served by both formal and collateral punishments. The broader link between punishment and political order will be explored, particularly the role of punishment in the production state legitimacy. The dynamics of mass incarceration and the evolution of punishment philosophies will also be explored.

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## CJE5121: Homeland Security and Criminal Justice

Description: This course examines the history, logic, strategies and tactics of terrorism from a domestic law enforcement perspective, including an overview of weapons of mass destruction. Global, national and local counter-terrorism efforts will be explored, as well as the impact both terrorist acts and our responses have had on the way we view the world and each other.

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## CJE5320: Police Administration

Description: This course will focus on the law enforcement agency from the standpoint of top and middle management, including (but not limited to) labor relations, personnel management, fiscal administration, and the integration of internal and external operations. Students will draw from organizational theory and police policy research to explore the future of policing, news media relations, leadership, negotiating skills, problematic employees, performance evaluations, community policing, and counter-terrorism.

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## CJE5428: Critical Issues in Community Policing

Description: This course begins with providing an overview of community-oriented policing and its major components. More specifically, students will explore the concepts of theory, problemsolving, police-community relationships, crime control, and patrol operations. This course will conclude with an examination of empirical research focused on community policing policies and strategies.

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Prerequisite: Admission to the program. This course examines the social processes by which human behavior or characteristics get banned as deviant/criminal, how societies use social control processes to deal with deviance, and how deviants respond to social control efforts and attempt to manage their deviant/criminal identities. The special role of making law in the banning of unwanted behavior or characteristics, and in the control efforts aimed at deviants who subsequently violate the rules, will be examined. Specific analysis of the role of formal and informal social control will be undertaken.

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## CJE6268: Minorities and Crime

This course provides an overview of the role of race, social class, and ethnicity in the American criminal justice system. It examines the historical impact that the criminal justice system has had on minorities in this country, as well as the role that crime (primarily felony crime) has played in the lives of various minorities within American society. Emphasis will also be placed on both offense and victimization patterns within black and Hispanic communities.

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## CJE6329: Police Effectiveness

Description: This course examines criteria by which the effectiveness of police can be assessed, and critically reviews empirical studies of police practice and functions. Students will examine key research findings across police operations such as community policing, patrol, use of force, domestic violence, counter-terrorism, and preparedness. Policy-oriented research and contemporary police innovations will be the principal emphasis of this course.

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## CJJ5586: Working with Juveniles and Youthful Offenders

An overview of intervention techniques and treatment methods particularly applicable for use with juvenile delinquents, runaways, neglected or abused children and youthful offenders.

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CJL5025: Women, Justice and the Law

Description: This course focuses on past and present justice issues and their legal history in order to come to an understanding of how the position of women in American society has changed over time. An examination of discriminatory practices and laws and the kinds of criminal justice remedies and recourse that have occurred will be incorporated. In this graduate seminar students will also research court cases relevant to the landmark changes for women in the law.

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## CJL5120: Criminal Law and Procedure in the Criminal Justice System

Prerequisites: Senior Standing or higher. This a course for entering MSCJ students requiring familiarity with criminal law, criminal procedure, and the components of the criminal justice system. These topics are studied by tracking actual or hypothetical criminal cases from the commission through the conclusion of the correctional process.

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Description: This course examines the operations and procedures of prosecution and defense attorneys. Prosecutorial discretion, the use of plea bargaining negotiations and the process of building a case and going to trial will be examined. The influence of factors like caseload size, differences in police operations, determinate sentencing, budget and jail costs, available social services for case diversion, defendant and victim characteristics, and political and re-election agendas on the operations and use of discretion of prosecutors will also be reviewed.

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## CJL6026: Issues in Law and Justice Process

Description: This graduate seminar explores the many aspects of law and justice and how they fit into the larger American legal system. As a fluid entity, the law can be both responsive to public discourse and slow to adapt to contemporary problems. Due process, the courtroom work group, application of the criminal law, and processing of criminal cases as part of a larger construct that both shapes and is shaped by structural forces (i.e. poverty, structural racism, sexism).

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## Graduate Courses

## Political Science and Public Administration

## Course Descriptions:


#### Abstract

INR6079: Terrorism and Public Safety This course covers the politics, ideologies, capabilities and countermeasures of global terrorism. The course traces the history and development of terrorism, examines factors which make terrorism an effective and economical political tool for the achievement of specific goals, explores terrorist organizations, and assesses the various weapons and delivery capabilities of today's terrorists. Finally it examines and evaluates strategies and tactics for the suppression of terrorist activities, with emphasis on the political and economic costs involved and the Constitutional issues which affect the selection of specific countermeasures and tactics.


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## PAD5384: Civic Groups and Public Policy

Description: Rather than a process taking place within government, public policy involves the interaction of government, business and nonprofit groups. The focus in this course is on the involvement of civic groups in public policy, especially the process of policy advocacy.

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## PAD5605: Administrative Law

Prerequisite: PAD 6060 or equivalent. Case study approach to the administrative law with special emphasis on the powers, procedures, and liabilities of public agencies and their officers.

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PAD5700: Public Administration Research Methods
Examines research methods used by public administrators in the public sector work environment. Emphasis on basic research methods and quantitative techniques with special emphasis on public administrative problems.

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PAD6021: Case Studies in Public Administration
Examination of applied experiences in public management. Students analyze cases drawn from public personnel relations, budgeting, agency policy making, public service ethics and other relevant management areas.

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issues facing public administrators in the management of public agencies with an emphasis on cases involving local government functions.

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## PAD6060: Public Administration in Modern Society

Survey of study and practice of public administration emphasizing administrative theory, bureaucratic processes and politics, public versus private management and administrative responsibility.

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## PAD6066: Capstone Seminar

Prerequisite: PAD 6060, PAD 5700, and completion of all but 12 credits in the MPA program Description: This class provides a summary and integration of the MPA program, and of the knowledge, skills and values appropriate to a professional career in public administration.

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## PAD6106: Administrative Behavior in Public Organizations

The examination of administrative theory and practice, with a special emphasis on the unique attributes of public bureaucracies. Topics include organizational structure and behavior, accountability, leadership, responsiveness, and administrative ethics.

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PAD6142: Management of Nonprofit Organizations

Description: This is the gateway course in the MPA nonprofit concentration and the graduate certificate of nonprofit management. Topics include the history, scope and significance of the nonprofit sector; theories of nonprofit provision; nonprofit management and leadership; strategic planning; and the future of the sector.

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## PAD6164: Nonprofit Stakeholder Relations

Description: Identification of, and relations with, major stakeholders of nonprofit organizations. Major topics include: human resources; volunteer management; board of directors; performance measurement; accountability and legitimacy; and administrative communication.

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## PAD6207: Municipal Finance Administration

The purpose of this course is to examine urban fiscal management policies in the post industrial city. Specific emphasis will be given to public management tools utilized by cities facing potential fiscal stress.

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Description: This course is an introduction to financial management techniques for nonprofit organizations. Major topics include sustainability, fiscal management and budgets; fund
raising; fee for service; legal requirements; grant and contract management; and private ventures.

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## PAD6227: Government Budgeting and Finance

Exploration of the influence of interest groups on budget decisions, with special attention to the formation of the executive budget, congressional budgeting, and various political reactions to fiscal insufficiency.

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## PAD6335: Strategic Planning for Public and Nonprofit Organizations

This course will consider any in-depth study of two forms of organizational planning in common use by nonprofit organizations: strategic planning and project planning. For strategic planning, several common approaches will be considered and students will be required to produce a strategic plan for an organization. Students will investigate various tools used in project planning that are appropriate for task management.

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## PAD6417: Human Resources for Public and Nonprofit Management

This course examines the processes and procedures of modern human resource management in public and nonprofit organizations. The course emphasizes the important role of public interest values as it examines various models of human resource management. Appropriate strategies for effective organizational use and development of human resources are presented.

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PAD6436: Ethics, Leadership and Accountability in Public

Description: This course studies the centrality of, and interaction between ethics, leadership and accountability in public and nonprofit organizations.

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## PAD6447: Managing Diversity in Public and Nonprofit Organizations

This course reviews organizational problems posed by differing cultural identities, and examines techniques, strategies, and positive approaches for successful management of the culturally divers workplace.

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PAD6612: Regulatory Administration
An exploration of government response to market failure through economic and social regulation. Topics include regulatory agencies, regulatory policy formation and implementation; theories of regulation; risk analysis and tradeoffs; and deregulation.

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Prerequisite: PAD 5700 This course provides an introduction to the types of research designs commonly used in public administration research and practice in the preparation of a formal research prospectus. It is a prerequisite for the Capstone Seminar course.

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## PAD6807: Urban Administration

Problems and principles of municipal administration, including taxes, budgeting, planning, personnel, and the provisions of services; for example, police, fire, health, recreation, water and sewers, welfare, and education.

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## PAD6836: Comparative Public Administration

Description: A comparison of the systems and processes of governance in a diverse range of countries. Through this students will gain a better understanding of the global context of public administration, of the influence of this on state and local government in the United States, and develop the basic tools for learning from other experience.

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PAD6900: Directed Independent Study
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Prerequisite: Consent of MPA program coordinator. Specialized study of an issue or topic in public administration, directed by a faculty member specializing in that topic. May be repeated for up to 9 credits under different topics.

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## PAD6934: Special Topics in Public Administration

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Exploration of topics of enduring or emerging significance in public administration. May be repeated for up to 9 credits under different topics.

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## PAD6946: Internship in Public Administration

Supervised field work in public administration. Diary and/or research project and seminar attendance required. May be repeated up to 6 credits under different topics.

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## POS6095: Intergovernmental Relations

Course will focus on providing knowledge of intergovernmental administration and management. Topics of discussion will include intergovernmental policy making, program planning and implementation, development and improvement of the organization, and administration of government systems and management of governmental interactions.

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The course examines the political power structures of local governments and the related policy outcomes in terms of resource allocation and service delivery. The material also focuses on the consequences of these issues for public administrators.

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## PUP6006: Program Evaluation for Public and Nonprofit Management

Program evaluation is the collective term for a set of methodological tools and approaches that enable observers to ascertain reliably whether or not social programs are achieving their expected results. This course examines management of the evaluation process, techniques of evaluation, and the application of evaluation results for improving program performance in both public and nonprofit organizations.

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## PUP6007: Policy Analysis

Prerequisite: PAD 5700 The policy planning process, problems of implementing policy, evaluation of policy impacts, and techniques of policy forecasting

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URP6058: Urban and Regional Planning
Examination of urban planning processes, institutions, and techniques, with special attention to the physical, legal, and demographic limits of urban planning.

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## Graduate Courses

## English

## Course Descriptions:

## AML6506: Studies in Early American Literature

Description: This course covers selected themes and topics in American Literature before 1864.

Repeatability: This course may be repeated up to 15 credit hours.
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## AML6507: Studies in Later American Literature

Description: This course will cover selected themes and topics in American literature after 1864.

Repeatability: This course may be repeated up to 15 credit hours.
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## ENC6700: Theory of Composition

This course studies the process of composition with emphasis on various theories of the creative process. Introduction to methods and styles of teaching composition.

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## ENC6706: Grammar and Rhetoric of Sentence and Paragraph

Prerequisites: Permission of the Graduate Coordinator This course provides students with the theoretical and technical background to recognize the sources of grammatical and rhetorical problems that so often trouble inexperienced writers. This course primarily will introduce students to the scholarly research on error analysis. In addition, students will study theories regarding rhetorical style and structure of the sentence, paragraph, and essay.

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## ENC6720: Five Major Problems in Composition

Prerequisites: Permission of the Graduate Coordinator Writing teachers encounter hundreds of problems. Our goal in the seminar will be to engage several of these as they are concentrated into five practical problems of study. The course will introduce students to scholarly research on basic writers, sentence, and paragraph development, teaching the rhetorical genres, assignment design, and essay evaluation. Students will then be prepared to prepare a research project that leads to the design a set of lesson plans on a particular problem that puts their research into teaching practice. Ultimately, this course will teach students the basics of designing and implementing a college writing course.

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Prerequisites: Two of the three following courses are prerequisites: The Subject of Composition, Five Major Problems in Composition, The Grammar and Rhetoric of Sentence and Paragraph and Permission of the Graduate Coordinator Teaching Practicum in the Writing Classroom offers English graduate students one semester of supervised teaching in an introductory college writing class. Student practitioners will have the opportunity to deploy composition and rhetorical theory in the planning and evaluating of writing assignments. As apprentices, student practitioners will learn as well various styles and skills of classroom teaching and management.

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## ENG6018: History of Literary Criticism and Theory

Prerequisite: Graduate standing. This course is a study of the major texts in literary criticism and theory from Plato and Aristotle to the twentieth century with an emphasis on theory and content as well as method.

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## ENG6019: Contemporary Literary Criticism and Theory

This course is a study of various contemporary schools of and theoretical approaches to literary criticism - for example, formalist, psychological, mythic, anthropological, new historicist, feminist, structuralist, post-structuralist, deconstructionist, and others - with an emphasis on method as well as theory. May be repeated for a maximum of 12 credits under different topics.

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## ENG6138: Studies in Film

Prerequisite: Graduate standing or permission of instructor. In-depth study of significant films as literature. Focus on critical language and skills useful for film interpretation. Readings in literature and in film scholarship.

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## ENG6941: DIS: Practicum: Teaching Composition

Prerequisite: Graduate standing and a minimum of 24 semester hours of satisfactory work toward the MA in English. Permission of instructor and graduate coordinator. Practical experience in teaching composition at the college (freshman) level, including supervised teaching, grading, conferencing, and supervised reading. May be repeated.

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## ENG6971: Thesis

Prerequisite: Graduate standing. MA thesis: research and writing.
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ENL6502: Studies in Early British Literature

Description: This course will cover selected themes and topics in British Literature before 1800.

Repeatability: This course may be repeated up to 15 credit hours.

Description: This course will cover selected themes and topics in British Literature after 1800. Repeatability: This course may be repeated up to 15 credit hours.

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## FIL5305: Documentary Workshop

Description: Students undertake advanced documentary research, refine their understanding of documentary techniques, extend their analysis of and work with the generic features of documentary film, explore the aesthetic implications of the choices a documentarian must make, and reflect on the ethical complexities of documentary film in relation to the artistic history that informs this genre.

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LIN5743: ESOL Applied Linguistics
This course explores the ways in which scientific knowledge of the structure, acquisition, and use of language can be applied in multilingual classroom settings.

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## LIT5934: Topics in Literature

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Prerequisite: Graduate standing, permission of instructor. May be repeated up to 12 credits under different topics.

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## LIT6009: Studies in Genre

Description: This course will cover selected genres such as poetry, fiction, drama, digital media, and other mediums/modes of text.
Repeatability: The course can be repeated for up to 9 credit hours.
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## LIT6017: Studies in Fiction

Prerequisite: Graduate standing or permission of instructor. This course covers variable topics, themes, or periods such as British fiction, American fiction, or short fiction. May be repeated for 12 credits under different topics.

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## LIT6037: Studies in Poetry

Prerequisite: Graduate standing or permission of instructor. This course covers variable topics such as studies in lyric, epic, narrative, Metaphysical, Romantic, or Contemporary poetry. May be repeated up to 12 credits under different topics.

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Prerequisite: Graduate standing or permission of instructor. This course covers variable periods, topics, or themes such as classical or modern, comedy or tragedy, the self in revolt, or women in drama. May be repeated up to 12 credits under different topics.

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## LIT6246: Major Authors

Prerequisite: Graduate standing or permission of instructor. This course is an in-depth study of a major author such as Dante, Chaucer, Shakespeare, Milton, Wordsworth, Dickens, Melville, Faulkner, Yeats, Virginia Woolf, George Eliot, William Carlos Williams. May be repeated up to 12 credits under different topics.

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## LIT6654: Comparative and World Literature

Study of literature in English translation. This course may include comparison of translated works with works written in English. Content varies. May be repeated up to 12 credits under different topics.

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## LIT6855: Topics in Cultural Studies

Description: This course will cover selected topics and themes in the literature of cultural studies.
Repeatability: The course can be repeated up to 12 hours.

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## LIT6905: Directed Independent Study

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Prerequisite: Permission of instructor, graduate coordinator, and department chairperson. This course investigates literature topics at the advanced level. May be repeated for 6 credits under different topics.

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## LIT6934: Special Topics in Literature

Prerequisite: Permission of instructor. This course studies a variable range of literary topics. May be repeated for 12 credits under different topics.

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## LIT6941: Practicum: Teaching Literature

Prerequisite: Graduate standing or permission of instructor. This course provides students practical experience in teaching literature at the college level. Students work closely with a professor in the classroom.

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Description: This course supports student-designed reading, research, or performance projects.
Repeatability: The course may be repeated for up to 12 credit hours and requires departmental permission.

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## THE5931: Special Topics in Drama and Theater

Description: This course can be offered as a lecture, seminar, or studio course covering selected topics of interest in drama or theater.
Repeatability: This course may be repeated for up to 6 credits under different topics.
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## THE5945: Playwrights' Project

Description: This course is a workshop in playwriting and play making. The first three quarters of the course is an intensive writing workshop designed to introduce students to the art and craft of playwriting. Students will learn to write and master the one-act play format. The final quarter of the course is a play-making workshop. Students will select stage-worthy scripts from the plays written in the first three quarters of the course and produce them. The play-making workshop includes opportunities for students to hold university-wide auditions, cast, direct, act in, publicize, promote and present their plays in a final performance project for the university community.
Repeatability: This course may be repeated for up to six (6) credit hours.
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## Graduate Courses

## Psychology

## Course Descriptions:

## CLP6166: Psychopathology

Prerequisite: Admission to the MACP program or permission of instructor.
Description: The course includes a study of the models that have been developed to describe human adjustment and psychopathological problems. The course is designed further to provide both a knowledge base and a dynamic understanding of these behaviors in an individual's life.

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## CLP6441C: Individual Intelligence Testing

Prerequisite: PCO 6317C and consent of the instructor
Description: This is an introduction to the theory, administration, scoring, and interpretation of individual tests of intelligence. The lab component will afford students practice in all facets of intelligence testing, under supervision.

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## CLP6445C: Individual Personality Testing

Prerequisite: PCO 6317C and consent of the instructor
Description: This is an introduction to the diagnostic assessment of personality and personality dynamics, including objective and projective techniques. The lab component will afford students supervised practice in testing, interpretation, and report writing techniques.

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## CLP6459: Principles of Sex Therapy

Prerequisite: Graduate standing and permission of the instructor
Description: This course will provide an orientation to the etiology of sexual dysfunctions and dissatisfactions. In addition, it will cover sex counseling research and cognitive and behavioral principles used in sex therapy.

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DEP6055: Human Development
Prerequisite: Enrollment in the Masters of Arts in General Psychology program or permission of instructor.
Description: The course will provide an in-depth survey of research pertaining to central issues of developmental change across the life span. Both classical and contemporary perspectives will be examined.

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Prerequisite: Admission to the MAGP program or permission of instructor
Description: The course is designed to acquaint students with current theoretical and empirical work in the area of human learning, cognition, and information processing. Topics include long-and short-term memory, semantics, natural language processing, and artificial intelligence.

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## PCO6051: Counseling in Community Settings

Prerequisite: Admission to the MACP program
Description: This course provides an overview of principles, theories, and practices of community intervention. Topics include an examination of programs and facilities for inpatient, outpatient, partial treatment, and aftercare. Both human services networks and principles and techniques of community needs assessments and program development will be discussed.

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## PCO6056: Health Psychology

Prerequisite: Admission to the MAGP program or permission of the instructor
Description: This course includes a general introduction to and survey of the field of health psychology. A biopsychosocial model is developed and contrasted with traditional medical models. The course explores the many ways in which social and psychological research contribute to an understanding of health and illness behavior.

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## PCO6248: Theories of Group Counseling

Prerequisite: PCO 6317C, CLP 6166, PCO 6406C, PCO 6408C
Co-requisite: PCO 6248L
Description: This course explores theories and research on group psychotherapy. This course will cover the stages and dynamics of different kinds of groups including psychoeducational and psychotherapy groups. This course will cover techniques for how to provide process level interventions and practice group leadership skills. This course will also address professional and ethical issues in group counseling.

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## PCO6248L: Group Counseling Laboratory

Prerequisite: PCO 6317C, CLP 6166, PCO 6406C, PCO 6408C
Co-requisite: PCO 6248
Description: This course addresses the experiential group process which involves participation by counseling students in an actual on-going group experience to develop an understanding of oneâ $\epsilon^{T M}$ s functioning in relation to other people and to facilitate an awareness of self and interpersonal relationships.

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## PCO6271: Social and Cultural Foundations of Counseling

## Prerequisite: Admission to the MACP program

Description: This course draws on an ecological perspective to examine issues of diversity in American society. During the course of the term we will focus on diversity as represented by racial/ethnic groups, gender, class and sexual orientation in American society. Particular attention will be paid to the relationships between members of these groups, mainstream society and psychological well being and effective helping relationships.

## PCO6311: Psychology of Substance Abuse and Addiction

Prerequisite: Admission to the MACP program
Description: This course provides an overview of models of substance abuse and other addictive behavior. Based on these models, prevention (both primary and secondary) and treatment strategies will be discussed, including individual, group, family, and social intervention.

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## PC06317C: Individual Evaluation and Assessment

Prerequisite: PSY 6216 and admission to the MACP program or permission of the instructor Description: This course introduces the principles and practices of individual evaluation and assessment within the context of psychological counseling. Emphasis is placed on understanding the basic psychometric principles needed to evaluate a wide range of test instruments and assessment tools. The experiential component of the course will center on the development and refinement of observation and interviewing skills.
Course Fees: \$15
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## PCO6406C: Counseling Theories and Practice

Prerequisite: Admission to the MACP Program or permission of the instructor
Description: This course is designed to create an understanding of (1) the assumptions, implications, and ethics related to the counseling process; (2) the theories and methods of learning for both individual and group counseling; and (3) the application of research to the counseling process. Students will engage in skill laboratory training that involves the development of basic communication and facilitating counseling skills.

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## PCO6408C: Foundations of Mental Health Counseling

Prerequisite: PCO 6317C, CLP 6166, PCO 6406C and PCO 6407C, plus admission to the MACP program or permission of the instructor Description: This course will further develop the students' understanding of and ability to work with clients throughout the counseling process. This involves case management from initial contact, through assessment, evaluation, and goal development to referral. Advanced counseling skills will be taught and assessed in a laboratory setting.

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## PCO6531: Career and Lifestyle Assessment

Prerequisite: Admission to the MACP program and PCO 6317C
Description: The goal of this course is to provide future counselors with the tools they will need in order to implement effective strategies for career assessment and career guidance. Theories and practices in career choice and development will be examined from the perspective of the assessment process. In addition to career planning, the focus of attention will extend to social and family goals, leisure interests, and other types of decision-making through the lifespan.
Course Fees: \$15
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Description: The course will provide an orientation to the legal and ethical aspects of mental health counseling. Topics will include issues relevant to confidentiality, responsibilities of counselors, and professional certification and regulation.

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PCO6939: Counseling Seminar
Prerequisite: Established by the instructor
Description: This course is a specialty area seminar involving theory, research, and practice in one counseling methodology; for example, vocational counseling, marriage and family counseling, Gestalt therapy, or behavior therapy.
Repeatability: This course may be repeated for a total of 9 credits.
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## PCO6943: Internship

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Prerequisite: Admission to the Master of Arts in Counseling Psychology program
Description: This 900 hour practical experience course component of the counseling program will take place in a mental health facility or agency. Three hundred hours of this experience must be direct client contact.
Repeatability: This course may be repeated up to 9 credits.
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## PPE6466: Advanced Personality Theories

Prerequisite: PPE 4004 or CLP 4143 plus admission to the MACP or MAGP program or permission of the instructor
Description: This course represents a survey of the major issues (e.g., cross-situational vs. situational specificity of behavior), "grand" theories (e.g., psychoanalytic), and experimental approaches (e.g., focus of control in personality) regarding personality theories and includes content that provides a knowledge base relevant to counseling.

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## PSB6031: Advanced Biopsychology

Prerequisite: Consent of instructor
Description: This graduate level course provides an in-depth exploration of the biological underpinnings of behavior. The course will cover current topics in neuroscience, psychopharmacology, psychophysiology, and behavioral medicine.

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## PSY6216: Research and Program Evaluation

Prerequisite: PSY 3214 or an experimental psychology course plus admission to the MACP program or permission of instructor. Designed to enable the master's level practitioner to scientifically evaluate research involving human subjects; special emphasis placed on research strategies, methodologies, and ethics. Must be completed within the first 12 hours of MACP program course work.

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PSY 3214 or an experimental psychology course plus admission to the MAGP program or permission of instructor. Further study of the design and analysis of psychological research. Emphasis is on issues concerning the choice of appropriate designs for implementation of research and statistics for analysis. Both experimental and correlational designs are explored. Introduction to the use of computerized statistical packages.

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## PSY6908: Directed Individual Study

Prerequisite: Permission of the departmental chairperson
Description: This course may be repeated up to 12 credits under different topics.
Repeatability: This course may be repeated up to 12 credits.
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## PSY6910: Supervised Research

Prerequisite: Admission to the MAGP program or permission of the instructor
Description: This course involves intensive experience in design, implementation, analysis, and writing. A minimum of nine hours per week of research involvement under faculty supervision is required.
Repeatability: This course may be repeated for a total of 6 credits.

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## PSY6931: Special Topics

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Prerequisite: Admission to the MACP or MAGP program
Description: This course will explore topics of current importance in psychology. Topics may be initiated by faculty and/or students in consultation with the department chairperson. No more than three hours may be counted as part of the MACP or MAGP programs.

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## PSY6932: St:Seminar in Psychological Science

Prerequisite: Consent of the Instructor
Description: This specialty course presents students with in-depth understanding in a specific area of expertise or interest. The course content may be oriented toward theory, research, and/or practical application of psychological skills.
Repeatability: This course may be repeated once for a total of 6 credit hours.
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## PSY6937: Colloquium in Psychological Research

Prerequisite: Admission to the MAGP program or permission of the instructor
Description: This course represents an ongoing colloquium series, intended for graduate students in psychology, that involves the presentation and discussion of research initiatives by faculty and graduate students. The grading system is Pass/Fail.
Repeatability: This course may be repeated for a total of 4 credits.
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## PSY6972: Thesis B

## v. 1-

 6Prerequisite: PSY 6971
Description: In this course students will complete directed independent research and writing under the advisement of their graduate advisor and committee. Students must complete at least 3 hours of Thesis B and will typically enroll in 3 credit hours of Thesis B during the Spring Semester of the 2nd year of the program. For students who do not complete their Thesis project after the minimum 3 credit hours of Thesis $B$, this course may be repeated in one hour increments for a total of six hours. Continual enrollment in Thesis B (summer exempted) is required until the Thesis project has been completed.

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## SOP6069: Advanced Social Psychology

Prerequisite: SOP 3004 or equivalent, plus admission to the MAGP program or permission of the instructor
Description: This course involves an in-depth survey of the research literature of social psychology, with emphasis on individual behavior. Topics will include, but are not limited to, aggression, attraction, social perception, helping behavior, attribution, attitudes, applied social psychology, and communication.

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## Graduate Courses

History

## Course Descriptions:

## AMH5116: Early America

The European background of colonization and the evolution of social, political, economic and religious institutions in the colonies to 1763; the development of slavery; white-Indian interactions and their environmental consequences.

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## AMH5137: American Revolution/Constitution

An examination of the economic, political and social consequences of the American Revolution; the impact of international events on the course of the Revolution; and the origins of the Constitution.

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## AMH5159: Age of Jefferson and Jackson

The era encompassing the lives and careers of Thomas Jefferson and Andrew Jackson, with special reference to the emergence of major political parties and social attitudes and government policies regarding Native Americans and Afro-Americans.

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## AMH5176: Civil War/Reconstruction

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Examines the economic, political, social, and moral origins of the war; the course of the conflict; and the meaning and impact of Reconstruction.

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## AMH5207: The United States Since World War I

Examines the social, political, economic, technological, and cultural forces and events that have shaped American history since World War I.

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AMH5229: Gilded Age/Progressive Era, 1877-1917
Examines the changes and continuities in American history from reconstruction to World War I, particularly in the areas of industrialization, urbanization, immigration, diplomacy, government, and the ways Americans thought about themselves.

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This class focuses on the American experience in the 1920s. It explores many facets of the decade including the concept of the "New Woman," the Harlem Renaissance, nativism, the ascendancy of the Republican Party, and Prohibition. The themes and images portrayed in the literature of the period will constitute one major focus of this course. Students will read poetry and prose of major American artists. In addition students will investigate accounts of historians and scholars who analyze the era of the 1920s.

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## AMH5395: Mark Twain's America

This course covers American society, culture, and politics during Mark Twain's lifetime, 18351910. The readings for the course consist in the main of books and essays written by Mark Twain. The premise of the course is that, if one studies American history while reading Twain, one can better appreciate his major literary works; conversely, if one reads Twain while studying American history, one can gain insights into past events not found in conventional history texts.

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## AMH5405: History of the New South

This course introduces students to the history of the American South after the Civil War. We will consider the separate regions of the South - lowcountry, piedmont, mountain - and how these change over time. A central focus of the course will be the development and changes in southerners' thinking about race and racial difference. We will also consider the other ways southerners identified and organized themselves - by gender, class, religious beliefs, political ideologies, and residence.

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## AMH5424: Florida History

History of Florida from its colonial origins to the present. Economic, social, and political developments in Florida will be compared to other states in the region and the nation. Case studies of topics in Florida history will focus on Jacksonville and other cities and regions in the state.

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## AMH5429: Local History

A research and writing workshop intended for graduate students seriously interested in local history. Although the focus of the course is the Northeast Florida region, the techniques learned should be equally applicable to any locality in the U.S.

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## AMH5446: The Frontier in American History

An examination of the frontier, both as historical reality and as historiographical concept, in America from late colonial times to the present.

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## AMH5515: U.S. in World Affairs

A thematic analysis of U.S. foreign policy from independence to the present. Concepts like self defense, economic expansion, international policeman and moral crusading are examined in connection with major events.


#### Abstract

AMH5675: Atlantic Slave Trade This course will introduce students to the origins of the slave trade between Africa and the Americas. Specifically, we will examine the motivations that drove Africans and Europeans to create a system of slave sales and use in the New World. We will attempt to understand the people of early modern West and Central Africa on their own terms, explore western Europe and the aspirations and purposes behind the exploration of both Africa and the Americas, understand the processes and outcomes of the Trans-Atlantic Slave Trade, and explore the development of multiple slave systems within the Americas.


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## AMH5677: The Civil Rights Movement

The complex relationship between the Civil Right Movement, popular culture and the media will be investigated in this class. Following an examination of the origins of the late twentieth century struggle for African American freedom and equality, the class will concentrate on the main stages of the movement and on artistic endeavors that creatively explore the issues generated by and associated with the Civil Rights Movement.

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## AMH5934: Selected Topics: US History

This course will present selected topics in US history. Subjects will vary according to the instructor. The course may be repeated up to 5 times for a total of 15 credits under different topics.

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## AMH6256: Era of World War II

Our purpose during this course is to examine and analyze the era of World War II by focusing upon five major problems: 1) Origins of the European War, 2) The Pearl Harbor Attack, 3) The Latin American Role, 4) Wartime Diplomacy, and 5) Origins of the Cold War.

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## AMH6905: Readings in American History I

This course is designed to introduce students to major thematic issues in American history up to 1865. The course is organized chronologically, and serves to extend the students' grasp of factual material as well as to highlight key historiographical issues.

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AMH6907: Readings in American History II
This course is designed to introduce students to major thematic issues in American history after 1865. The course is organized chronologically, and serves to extend the students' grasp of factual material as well as to highlight key historiographical issues.

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Directed reading in American history for graduate students. Topics, eras, or themes will vary. May be repeated for up to 9 credits under different topics with permission of the graduate
advisor.

## AMH6936: Seminar in American History

Graduate research seminar in American history. Topics, eras, or themes will vary. May be repeated for up to 15 credits under different topics with permission of the graduate advisor.

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## ASH5225: Islamic History to 1798

Islamic History to 1798 examines the Islamic world from its origins, c. 600 CE until the decline of the last of the great Muslim "gunpowder" empires in the 18th century. The first half of the course will concentrate on the religious, political, and cultural achievements of the united Islamic world. The second half of the course will focus on the spread of Islam in the Middle East, South Asia, and Africa, the success of Islamic states in the early modern period, and the crisis they faced at the end of the 18th century with the rise of Western industrial military might. Our approach to Islamic history will be interdisciplinary - combining the approaches of history, literary analysis, religious studies, and art history.

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## ASH5445: Japan Before 1868

This course covers the period from the ancient creation of the Imperial system through the rise of the military class. Readings will reveal the Japan of gods and goddesses, samurai, the great Buddhist academies and the classical arts of the tea ceremony, gardening, sculpture, literature and martial skills.

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## ASH5447: Japan After 1868

This course examines the conscious creation of the "modern" nation state of Japan, its changing literature, arts, and social organization. It concludes with an examination of postmodern (post-war) Japan.

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## ASH5935: Special Topics: Asian History

This course will present selected topics in Asian history. Subjects will vary according to the instructor. The course may be repeated up to 5 times for a total of 15 credits under different topics.

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## ASH6935: Directed Reading in Asian History

Directed reading in Asian history for graduate students. Topics, eras, or themes will vary. May be repeated with permission of the graduate advisor.

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Graduate research seminar in Asian History. Topics, eras, or themes will vary. May be repeated with the permission of the graduate advisor.

## EUH5125: The Crusades

The crusades to the Holy Land lasted from 1095 until 1291, but the crusading movement came to encompass a much wider array of military expeditions - against Jews, Spanish Muslims, European heretics, Baltic pagans, and eventually Native Americans. We will study the deep roots of the crusading movement in Western Christian Society, the ways in which the crusades brought three world cultures (The West, Byzantium, Islam) into contact and confrontation, the type of cultural interactions that took place, and the continued vitality of the crusading idea in the expansion of Western Europe.

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## EUH5126: Medieval Europe

Traces development in government and society from the collapse of the Roman Empire in the West through the revolutionary High Middle Ages to the violence of the 14th century.

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## EUH5149: Renaissance-Reformation

From 1300-1600, European society experienced profound changes in its political, religious, social and economic way of life, changes rooted in new views of the world.

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## EUH5207: 20th Century Europe

An examination of Europe from World War I to the present; analyzing the development of contemporary European politics, society, and thought.

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## EUH5209: 19th Century Europe

An examination of Europe from the French Revolution to the First World War, focusing on the dynamics of change in European politics, society, and thought.

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## EUH5246: World War I

This course examines the history of World War I in its political, economical, social, cultural, and military dimensions.

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## EUH5249: The Holocaust

This course examines the Holocaust - Nazi Germany's organized and systematic mass murder of European Jewry in World War II. Through readings, discussions, films, exams, and quizzes, the course explores various facets of the Holocaust, including planners, perpetuators, accomplices, collaborators, victims, bystanders, rescuers, and legacies.

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The Byzantine Empire upheld the Christian, Greek, and Roman traditions of the ancient world
and remained the most powerful and splendid medieval society until the 13th century. The course examines the ability of the Empire periodically to renew itself from 325 to 1453 . In doing so, we shall not overlook the artistic, musical and literary achievements of Byzantine civilization and the heritage of Byzantium in later cultures.

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## EUH5406: Ancient Greece

This course will provide a detailed survey of ancient Greek history and culture, with an emphasis on working with the ancient sources. By reading the literature of the Greeks in translation, examining their archaeological and artistic remains, and studying the modern scholarship on ancient Greece, we will explore the remarkable achievements of the Greeks, and attempt to assess the contribution of Greek thought to world civilization.

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## EUH5416: Ancient Rome

This course traces the history of Rome the early days of the republic, through the establishment of the principate, to the transformations of the later empire. It explores how Rome encountered, absorbed, and was influenced by the peoples it ruled. It examines how the characteristic institutions of the Roman life emerged, and how they shaped the lives both of the elites and the common people. Students will explore the historiography of ancient Rome: the ancient written sources, epigraphy, and archaeological material, as well as modern scholarship.

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## EUH5457: Seminar on the French Revolution

This course examines the origins and progress of the French revolution to 1799, with particular attention to the central questions of interpretation that remain controversial over 200 years after the event: Was the Revolution inevitable? Why the Terror? Is the Revolution "finished"?

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EUH5459: France Since 1789
Examines the political, social, economic, and cultural aspects of French history since the Revolution.

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## EUH5469: Modern Germany

A history of modern Germany from 1815 to the present, concentrating on the period from unification under Bismarck to present-day Germany.

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EUH5507: Modern Britain
Examines the political, economic and social transformations of the United Kingdom from 1714 to present.

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The era of the Tudors and Stuarts, including such momentous events as the establishment of the Anglican Church, overseas colonization, the Puritan rebellion and the Glorious Revolution.

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## EUH5537: The British Empire

Beginning in the 16th century and re-inventing its purpose in the 19th century, England established an international empire on which the sun never set. This course will examine the origins, growth, zenith, and decline of the British empire. We will pay particular attention to Britain's activity in the non-western world.

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## EUH5578: Imperial Russia

Examines Imperial Russia from the time of Peter the Great to the 1905 Revolution, focusing on Russian political, social, economic, and cultural developments.

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## EUH5579: Russia Since 1905

This course examines Russia from the 1905 revolution to the present, analyzing the development of contemporary Russian politics, society, and culture. Emphasis is on the major figures, ideas, issues, events, and institutions which have shaped Russia since the late tsarist era. Topics include war, revolution, civil war, communism, nationalism, collapse of empire, and democratization.

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## EUH5685: Hitler and Stalin

This seminar critically examines key events, issues, ideas, and actions which shaped the rise to power and the policies of Hitler and Stalin. In addition to the political personalities of both leaders, we explore politics, society, culture, and foreign affairs in Nazi Germany and Stalinist Russia.

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## EUH5934: Selected Topics: European History

This course will present selected topics in European history. Subjects will vary according to the instructor. The course may be repeated up to 5 times for a total of 15 credits under different topics.

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## EUH6695: European History and Historians I

What is "Western Civilization", why do we teach it, and how do we do so? This is the first of a two-course sequence to prepare students to teach in undergraduate history programs. The course follows the structure of the undergraduate "Core" classes, but provides a much deeper background in the subject areas covered and the ways historians have dealt with them. On a weekly basis we will discuss key historical and historiographic issues from the major periods of western history.

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This course is designed to introduce students to major thematic issues in the history of Europe up to 1648 . The course is organized chronologically, and serves to extend the students' grasp of factual material as well as to highlight key historiographical issues.

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## EUH6906: Readings in European History II

This course is designed to introduce students to major thematic issues in the history of Europe after 1648. The course is organized chronologically, and serves to extend the students' grasp of factual material as well as to highlight key historiographical issues.

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## EUH6935: Directed Reading in European History

Directed reading in European history for graduate students. Topics, eras, or themes will vary. May be repeated for 9 credits under different topics with permission of the graduate advisor.

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## EUH6936: Seminar in European History

Graduate research seminar in European history. Topics, eras, or themes will vary. May be repeated up to 15 credits under different topics with permission of the graduate advisor.

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## HIS5067: Public History

This course will enhance student knowledge of public history by providing them with both the current literature in this more recent field of the history profession. In addition, students will be required to practice this area of history by creating their own projects to contribute to the knowledge of history, particularly local history, beyond the traditional academic arena of the classroom. Students will interact with a variety of individuals who are active in fields of public history. Other primary goals of the class are to impart extensive information about historic preservation and give students a greater understanding of the role of history professionals in this increasingly significant field of public history.

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## HIS5302: History in Photography and Film

This course considers how photographs and films (including documentary and feature films) both distort and reflect historical reality, and how photographs and films can be used as historical evidence.

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## HIS5496: History of Medicine and Disease

The development of the modern medical and allied health professions, with special reference to the U.S. from the late 18th through the 20th centuries; social, scientific, and historical factors that determine the nature, extent, and definition of disease.

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May be repeated up to 9 credits.

## HIS6905: Directed Independent Study

Prerequisite: Permission of instructor. May be repeated up to 9 credits under different topics with permission of graduate advisor.

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HIS6935: Special Topics in History
Prerequisite: Permission of instructor. The course will vary each time it is offered. May be repeated up to 9 credits under different topics with permission of graduate advisor.

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## HIS6946: Internship in History

Prerequisite: Admission to graduate program, six hours of history graduate credit, and permission of the graduate advisor required. Provides a supervised work experience in an area historical, archaeological or cultural organization. Students must work at least 200 hours per semester. May be taken only once for credit in thesis program and twice in non-thesis program.

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HIS6971: Thesis Research
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Prerequisite: Graduate standing. MA thesis research and writing. May be repeated for up to 15 credits with permission of graduate advisor.

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## LAH5205: Latin America

An examination of recent Latin American history. Special emphasis will be placed on the roles of the church, landowner, military, middle sector, and peasant in the modernizing societies of selected countries.

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## LAH5426: Aztecs/Incas/Mayas

This course is an introduction to the history of Mesoamerica and the Andes prior to 1492. Special attention will be given to the development of Maya, Aztec, and Inca civilizations; however, we will also focus on the importance of the earlier peoples such as Classic Teotihuacan, the Olmecs and Toltecs in Mesoamerica and the Chimu and Mochica of the Andes. Students will be introduced to some of the methodological problems that face scholars who attempt to reconstruct the history of the Americas during the pre-Columbian period.

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LAH5715: Inter-American Relations
United States policy toward Latin America over the past 190 years has gone through a number of distinct phases and has shifted from neglect to intervention, from cooperation to conflict. Our purpose in this course is to determine how we got from the past to the present; to determine the framework of United States policies toward the region; to provide an understanding of the

## LAH5775: Spirtual Conquest of Latin America

This seminar will examine the nature of the "spiritual encounter" between Europeans and Indians in the New World in the sixteenth and seventeenth centuries. Emphasis will be placed on the attempts to convert Indians to Catholicism and the native responses to such efforts. We will focus on the aims of the early Mendicants, their successes and their failures, as well as native attempts to gain access to Christianity.

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## LAH5934: Selected Topics: Latin American History

This course will present selected topics in Latin American history. Subjects will vary according to the instructor. The course may be repeated up to 5 times for a total of 15 credits under different topics.

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## LAH5955: Latin America Abroad

This course combines five weeks of classroom instruction with visits to some of Latin America's most historically important archaeological sites. Destination and time frame will vary with each time the course is taught.

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## LAH6905: Readings in Latin American History I

This course is designed to introduce students to major thematic issues in Latin American history up to 1821. The course is organized chronologically, and serves to extend the students' grasp of factual material as well as to highlight key historiographical issues.

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## LAH6906: Readings in Latin American History II

This course is designed to introduce students to major thematic issues in Latin American history from 1821 to the present. The course is organized chronologically, and serves to extend the students' grasp of factual material as well as to highlight key historiographical issues.

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## LAH6935: Directed Reading in Latin American History

Directed reading in Latin American history. Topics, era, or themes will vary. May be repeated up to 9 credits under different topics with permission of the graduate advisor.

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## Graduate Courses

## Sociology, Anthropology, and Social Work

## Course Descriptions:

## SYA5933: Special Topics in Sociology

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Description: This course provides an exploration of topics of current importance in the field of social problems, social organization or the discipline of sociology. This graduate course number is used in conjunction with an undergraduate course on the same topic.

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## SYA6125: Development of Social Theory

Prerequisite: Admmission to graduate program or permission of graduate director. This course surveys the corpus of theoretical works within sociology generally termed "classical" theory. The course traces the history and development of sociological theorizing from its inception to the early 20th century.

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## SYA6305: Quantitative Research Methods I

Prerequisites: Admission to the graduate program or permission of instructor. This seminar provides a basic, but intensive, introduction to qualitative methods of sociological research. The course will provide students with the ability to formulate research questions, collect quantitative data, prepare data for analysis, and become better able to critically interpret quantitative social science research.

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## SYA6308: Population Analysis

Prerequisites: Admission to the program or Permission from the Graduate Program Director. This course is designed to examine population change in the U.S. In particular, this course addresses the impact of population change on social program development and delivery. Special emphasis will be placed on how the changing demographic profile impacts U.S. economic and social issues as well as within the global context.

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## SYA6315: Qualitative Research Methods

Prerequisite: Admission to the Graduate Program or permission of the Graduate Director. This course will introduce students to a variety of qualitative research methods, including participant observation, interviews, open-ended surveys, and archival research. Strategies for compiling and organizing data, and using qualitative evidence to support an argument will also be discussed.

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## SYA6455: Quantitative Research Methods II

Prerequisites: SYA 6305 or consent of graduate director. The course is designed for graduate students to gain advanced training in quantitative data analysis. This course will teach students to organize and summarize important characteristics of data as well as make inferences about unknown characteristics of a population based on sample data.

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## SYA6657: Evaluation and Program Analysis

Prerequisites: Admission to Program or Permission of Graduate Director. The course provides a sociological introduction to evaluation and program analysis. The course is designed to introduce students to the theoretical base and practical application issues of evaluation research. In this course students will examine a number of evaluation studies that incorporate a variety of research methods.

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## SYA6909: Directed Independent Study

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Prerequisites: Permission of the Instructor and Graduate Program Director. This course is designed to allow students to address issues not presented in primary course listings.

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## SYA6938: Special Topics in Sociology

The course will cover variable topics in sociology. The course may be repeated for a total of 9 credits under different topics with permission of graduate advisor.

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## SYA6941: Practicum in Applied Sociology

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Prerequisites: SYA 6305, SYA 6455, SYA 6315 This course provides internship experience in applied sociological research. Students will combine course instruction with work in an approved research setting. Students may take up to six hours of internship credit, and students completing a six-hour internship may apply to use this experience in lieu of a thesis or comprehensive exam.

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## SYA6975: Masters Thesis

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Prerequisite: Permission of the Graduate Program Director. This course is required for students using the Masters Thesis Exit Option for the degree.

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## SYD6426: Urban Sociology

Prerequisite: Admission to the graduate program or permission of graduate director. This course examines the ways that sociologists have come to understand the working of cities, as well as what sociologists have learned about society in general by making the city their object of study.

Prerequisites: Admission to Graduate Program or permission of Graduate Director. The course provides a sociological approach to environmental problems. Specifically, the course examines four central issues surrounding environment problems: (i)the nature, scope, and social consequences of environmental problems; (ii) the human causes of environmental problems; (iii) the human responses to environment problems; and (iv) an alternative way of thinking about and responding to environmental problems.

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## SYD6605: Community and Society

Prerequisites: Admission to Graduate Program or permission of Graduate Director. This course examines community from a sociological perspective, including theoretical explanations of community cohesion and change, methods of studying community, and examples of community studies. The course will also address community organizations and economic development, including organizing by communities of interest, as well as contemporary claims that community in the U.S. is under threat.

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## SYD6706: Race Relations

Prerequisite: Admission to the program or permission of the Graduate Director. This course is designed to provide students with a sociological overview of the history of racial and ethnic relations in American Society, and to critique the social, economic and political consequences this history has had on various racial and ethnic populations. It will examine the role of British Colonial settlers and the adjustments of subsequent immigration groups, emphasis on relative adjustment to the dominant group, conflict among and between various groups, and their influence on the nature of American culture in religion, politics, economics and education.

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## SYO6535: Social Stratification

Prerequisites: Admission to program or by permission of Graduate Director. This course provides a sociological introduction to stratification in the United States. Specifically, the course is designed to introduce students to the theoretical base, empirical research and applied aspects of social and economic stratification in U.S. society.

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## SYO6545: Organizations and Work

Prerequisite: Admission to Graduate program or permission from Graduate Director. The purpose of this course is to introduce the major theoretical approaches used to study and understand complex formal organizations and work. This will include the assessment of administrative, management, and organizational theories and their applications. Focus will be on the structure, internal process, and environments of different forms of organization, how these influence the effectiveness of organizations, and how they impact on jobs, occupations, and the labor process.

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course provides a critical examination of major problems confronting less developed countries. Specifically, problems of growth, equity, and environmental sustainability are situated in a critical perspective informed by modernization, dependency, and world-system theory.

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## SYP6667: Sociological Approaches to Culture

Prerequisites: Admission to the program or Permission of Graduate Director. The course provides an introduction to how sociologists understand the role of culture in social life, drawing on contributions from scholars working in the Production of Culture tradition, as well as Cultural Studies. The course will also examine theoretical approaches to culture.

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## SYP6668: Analysis of Subcultural Perspectives

An in-depth study of subcultures in American society, and the cultural wholeness of lifestyles often labeled deviant in the society. Special emphasis will be given to gaining an understanding of the perspectives of others.

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## SYP6735: Sociology of Aging

Prerequisites: Admission to the graduate program or permission of graduate director. This course is an introduction to the sociological study of aging. During the semester we will deconstruct stereotypes of the aged, analyze the changes we face as we grow older and how individuals adapt to such change, analyze family relationships which include caregiving relationships, discuss health and financial security issues, and analyze how government policy will be affected by changes in the age structure of our society. All of the topics above will be placed in an historical and cross-cultural context.

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## Graduate Courses

## Languages, Literatures, and Cultures

Course Descriptions:

## FOL5930: Topics in Foreign Language

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Prerequisite: Graduate standing and permission of instructor and department chairperson. See department office for description of specific offering. May be repeated up to 18 credits.

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## Graduate Courses

## Building Construction Management

## Course Descriptions:

## BCN6595: Environmental Issues in Land Development and Construction

This course provides an introduction to the natural, economic, political, and legal issues related to the environment that may affect land development and construction management. Topics include: issues related to sustainable development, environmental impact of land development and construction, the historical context for land use planning and environmental regulation, specific regulations affecting developers and construction managers, the process and players involved in the environmental review of developments, and practical and modern methods for construction managers to prevent or minimize the negative impacts of construction and land development.

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BCN6728: Construction Planning and Scheduling
Prerequisite: BCN 1252, BCN 3611. This course introduces the fundamentals and techniques of scheduling and planning for construction projects. Topics include probabilistic scheduling, critical path method (CPM) using both arrow and precedence networks, CPM calculation methods, cost-time trade-off, PERT, resource leveling, and updating schedules during construction. Students will also be introduced to Internet based scheduling application software.

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## BCN6748: Construction Law

Prerequisite: BCN 4708, BCN 4709. This course introduces the principles and practices of contract documents and construction management. Different contract delivery systems relative to construction administration and law applications are covered. Other topics include project operations relative to contract administration and alternative dispute management processes. A case study synthesizing the course topics is included.

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## Graduate Courses

## Electrical Engineering

Course Descriptions:
EEE5316L: Advanced Electronics ..... 3Prerequisite: EEL 4309C Electronic Circuits II or equivalentDescription: This course is a lab-oriented course that covers the application of electronicdevices and linear-digital integrated circuits in the design and verification of electronicinstrumentation, systems, and design projects.
Course Fees: \$75
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EEE5502: Introduction to Digital Signal Processing3
Prerequisite: EEL 3135 Signals and Systems or equivalentDescription: This course covers the fundamental principles of digital signal processing. Thetopics include discreet time signals and systems, Z-transforms, discrete fourier transform(DFT), and digital filter design.
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EEE6508: Advanced Topics in Signal Processing ..... 3
Prerequisite: EEL 4750 Introduction to Digital Signal Processing or equivalentDescription: This course provides an overview of modern signal processing methods including:signal modeling, spectral estimation, adaptive algorithms, neural networks, and applications.
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EEL5060: High Tech Entrepreneurship3Prerequisite: Permission of instructor This course provides an overview of the steps requiredin the formation of a high tech company. Topics include intellectual property, the preparation ofcomprehensive business plan and approaches on raising start up financing.
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EEL5500: Digital Communications3Prerequisite: EEL 4514 Communication Systems or equivalent This course discusses theanalog-to-digital conversion, the behavior of communication systems in the presence of noise,and optimum signal detection. Selected topics in modern digital communication are alsocovered.
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communication systems.
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## EEL5511: Communication Systems

Prerequisite: EEL 3135 Signals and Systems or equivalent This course covers the fundamental principles of communication systems. Topics include the transmission of analog signals, the transmission of digital data, modulation and demodulation, and recent developments in communications.

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## EEL5563: Fiber Optics

Prerequisite: EEL 3472 Electromagnetic Fields and Applications or equivalent This course focuses on fiber optic waveguides. Topics covered in the course include optical sources, detectors, receivers, transmission systems and fiber-based broadband communication networks.

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## EEL5613: State Space Control Systems

Prerequisite: EEL 4657C Linear Control Systems or equivalent This course covers the design and analysis of control systems using state-space methods. Topics include linear algebra, modeling of physical systems as state-space equations, transformations, stability, controllability and observability, state feedback, observer design, introduction to optimal control, and Riccati equation.

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## EEL5722C: Digital Design

Prerequisite: EEL 3701C Introduction to Digital Systems and EEL 3304 Electronic Circuits I or equivalent. This course covers the analysis, design, simulation, and implementation of advanced combinational logic circuits and synchronous/asynchronous state machines using modern programmable logic devices. Electrical and timing characteristics of physical devices are covered. CAD-based design and development using hardware description languages are used throughout the course. A laboratory is included.

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## EEL5764C: Digital Computer Architecture

Prerequisite: EEL 3701C. This course covers advanced processor design and techniques such as multiple execution units, pipelining, out-of-order instruction execution, predication and speculation. Today's computer designs encompass multiple processors. Recent design trends from multicore processors, super computers and grid computing will be discussed. The relationship between software elements such as compilers and operating systems and computer design will also be covered.

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## EEL5820: Digital Image Processing

Prerequisite: EEL 3135 Signals and Systems or equivalent This course covers various electrical engineering aspects of digital image processing techniques and their applications including image acquisition, sampling, color, enhancement, segmentation, compression, coding, and morphology.

Prerequisite: Graduate standing and permission of instructor This course will consist of an indepth study of a current electrical engineering topic. Topic will vary each time the course is offered and will be focused on state-of-the-art concepts that are not addressed in current course selections. May be repeated up to 6 credits.

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## EEL6521: Advanced Digital Communications

Prerequisite: EEL 4514 Communication Systems or equivalent This course will discuss the analog-to-digital conversion, the behavior of communication systems in the preference of noise, and optimum signal detection. Selected topics in modern digital communications will also be covered. There will be a focus on wireless communications including cellular (GSM/EDGE), local area networks (WIFI), wide area networks (WI MAX), and AD HOC networks (ZIGBEE).

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## EEL6521L: Advanced Digital Communications Laboratory

Prerequisite: EEL 4514 Communication Systems or equivalent This course is the laboratory component for EEL 6521 Advanced Digital Communications and Consists of the investigation experiment and design of digital communication systems.

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EEL6568: Optical Systems and Networks
Prerequisite: EEL 4440 Optical Fiber Communications or equivalent This course provides a comprehensive study of new developments and how optical technology is used in optical systems and networks. Topics covered include optical fiber applications as the best transmission medium for high capacity traffic in communications networking, dense wavelength division multiplexing, and passive optical networks.

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## EEL6591: Wireless/Mobile Communications

Prerequisite: EEL 4514 or permission of instructor. This course illustrates the characteristics of the wireless/mobile environment. Topics covered include wireless/mobile channel and multiple access techniques: frequency division multiple accesses, time division multiple access, and code division multiple access. Advanced topics such as cellular wireless system, wireless sensor networks, and ultra-wideband radio systems will be introduced.

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## EEL6684: Embedded Control Applications

Prerequisite: EEL4610/EEL5613 or permission of instructor. EEL4610 and EEL5613 are cross-listed courses. This course covers embedded control techniques with applications to motion control and microcontroller-based instruments. Topics include advanced microcontroller on-chip peripherals, sensors, actuators, position and speed control, and process control instruments. There are laboratory experiments. A term project is required.

Prerequisite: EEL 4713 Digital Computer Architecture or equivalent This course addresses various topics in computer design including maximizing processor performance, concepts and techniques for design of computer systems, processor design, instruction set architecture design and implementation, memory hierarchy, pipelined processors, bus bandwidth, processor/memory interconnections, cache memory, virtual memory, advanced I/O systems, performance evaluation. Advanced concepts, such as grid computing, are also covered.

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## EEL6749: Embedded Systems Design

Prerequisite: Permission of the Instructor This course explores the design trends in microcontrollers, microprocessors and digital signal processors. Topics include the use of these processor types in various design applications such as biomedical, communications and intelligent highway systems. A design project is included in the course.

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## EEL6825: Pattern Recognition

Prerequisite: EEL 4750 Introduction to Digital Signal Processing or equivalent This course provides an overview of modern pattern recognition techniques for supervised and unsupervised feature extraction and classification including: Bayesian methods, nonparametric methods, discriminant functions, neural networks, and stochastic techniques.

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EEL6900: Supervised Graduate Research
Prerequisite: Graduate status; permission of instructor and department chairperson This course is an investigation of topics in Electrical Engineering at the advanced level. The course may be repeated for a maximum of 6 credits.

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## EEL6925: Master's Project

Prerequisite: Graduate standing and consent of advisor Student will undertake a comprehensive electrical engineering project conducted under the supervision of the faculty advisor. The comprehensive project is to be chosen by the student and faculty advisor. A project report is required.

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## EEL6935: Special Topics in Electrical Engineering

Prerequisite: Graduate standing and permission of instructor This course will consist of an indepth study of a current electrical engineering topic. The topic will vary each time the course is offered and will be focused on state-of-the-art concepts that are not addressed in current course selections. This course may be repeated up to 6 credits.

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Prerequisite: Graduate standing and consent of advisor. Individual research involving laboratory/field/modeling investigations on a topic relevant to electrical engineering. The topic is to be chosen by the student and faculty advisor. May be repeated for up to 6 credits.

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## Graduate Courses

## Civil Engineering

## Course Descriptions:

## CEG5304: Applied Engineering Geology

Prerequisite or
Co-requisite: CEG 3011C Geotechnical Engineering This course addressed the application of geological information to engineering problems. Topics covered include soil and rock mechanics, instrumentation, geological hazards, field testing, coring and classification of geological materials, and probability and statistics as applied to geological materials. (A material fee of $\$ 35$ will be assessed.)

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## CEG6016: Advanced Geotechnical Engineering

Prerequisite: CEG 3011C This course provides a continuum based approach to soil mechanics using both elastic and plastic approaches. Basic topics covered will include stress and Mohr's circle, elastic and plastic strains, elastic constants, soli strength, and yield and plastic flow. Advanced topics will include critical state soils mechanics and application of various soil models including cam clay. (A material fee of $\$ 35$ will be assessed.)

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## CEG6018: Applied Computational Geotechnics

Prerequisites: CEG 3011C, CEG 3111 This course covers the use of finite element computer methods to analyze complex geotechnical engineering problems. Course will focus on various problems in geotechnical engineering, including shallow foundations, retaining structures, slope stability, and tunnels. Emphasis will be placed on advantages of finite element based solution over traditional statics-elastic based solutions and the importance using the proper soil models. (A material fee of $\$ 35$ will be assessed.)

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## CEG6118: Advanced Foundation Engineering

Prerequisite: CEG 3111 This course covers advanced topics in foundation engineering and design. Topics will include piles and pile groups subjected to axal and lateral loads, design of soil anchors and soil nails and limit states design of foundation.

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## CEG6320: Drilled Shaft Foundations in Rock

Prerequisites: CEG 3011C Geotechnical Engineering, CEG 3111 Foundation Engineering This course addresses the design and analysis of drilled shaft foundations in rock. Topics covered will include intact rock characterization, rock mass and discontinuity characterization, deformation and strength of rock, axal and lateral, capacities of drilled shafts, axal and lateral deformations, and stability of drilled shaft foundations.

CEG6515: Slope Stability
Prerequisites: CEG 3011C, CEG 3111 This course covers soil mechanics concepts to the design and analysis of earth slopes. Topics covered will include infinite slope analysis, limit equilibrium slope analysis, finite element slope analysis, and mechanics and analysis of reinforced slopes.

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## CEG6806: Ground and Site Improvement

Prerequisite: CEG 3011C This course covers methods for improving soil and rock and associated verification techniques for assessing ground improvements. Ground improvement methods discussed include mechanical modification (compaction), hydraulic modification (dewatering and vertical drains), grouting, and soil reinforcement. Verification techniques discussed will include field testing, intrusive testing, and geophysical testing.

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## CES5105: Advanced Mechanics of Materials for Civil Engineers

Prerequisite: CES 3104C Mechanics of Materials This course covers advanced topics in solid mechanics. Course topics include review of stress and strain theories, lineal stress-strain relationships, inelastic material behavior, and application of energy methods, stress concentrations, introduction to fracture mechanics, fatigue, and creep.

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## CES5326: Bridge Engineering

Prerequisites: CES 3605C Design of Steel Structures, CES 4702C Design of Reinforced Concrete This course covers the design of structural systems for bridges using the Aashto-Lrfd design methodology. Topics covered will include analysis by influence lines, design of slab, beam-slab, and existing bridges. (A material fee of $\$ 30$ will be assessed.)

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## CES5706: Advanced Reinforced Concrete

Prerequisite: CES 4702C Design of Reinforced Concrete This course covers the design of frames, two-way floor systems, shear walls; shear and torsion; compression field theory; inelastic analysis; wind and seismic design; and provide an introduction to prestressed concrete.

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## CES6116: Finite Element Structural Analysis

Prerequisite: Consent of instructor This course focuses on the concepts, theory, and application of the finite element method to one-, two-, and three-dimensional structural components and systems. This course will also cover stability and dynamics of structural systems.

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traditional structural analysis for trusses, beams, frames, cables, and arches as either determinate or indeterminate systems. Topics covered will include matrix methods including the direct stiffness method, and flexibility and stiffness method with introduction to computerbased techniques.

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## CES6715: Prestressed Concrete

Prerequisite: Graduate standing and consent of instructor This course covers prestressed concrete behavior and design for applications in building and bridge design. Topics covered will include the design of fire-and post-tensioned girders, floors, roofs, and walls.

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## CGN5932: Special Topics in Civil Engineering

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Prerequisite: Permission of instructor This course will cover an in-depth study of current civil engineering topic. The course content will vary each time the course is offered and will be focused on state-of-the-art concepts that are not addressed in current course selections. May be repeated for up to 6 credits.

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## CGN6875C: Advanced Concrete Materials and Methods

Prerequisite: CGN 3501C This course offers knowledge, skills, and national certification opportunities in the advanced testing of concrete materials and construction inspection procedures for transportation construction projects, including pre-placement, placement, and post-placement operations and quality assurance/quality control practice.

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## CGN6900: Supervised Graduate Research

Prerequisites: Graduate status; permission of instructor and department chairperson. This course is an investigation of topics in Civil Engineering at the advanced level. The course may be repeated for a maximum of 6 credits.

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## CGN6933: Special Topics in Civil Engineering

Prerequisite: Graduate standing and permission of instructor. This course will cover an indepth study of advanced civil engineering topics. The course content will vary each time the course is offered and will be focused on state-of-the-art concepts that are not addressed in current course selections. May be repeated for up to 6 credits.

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## CGN6970: Civil Engineering Master's Thesis

Prerequisite: Graduate standing and permission of instructor The student will conduct individual research on topic relevant to civil engineering. The research topic will be chosen by the student in conjunction with their advisor. The course may be repeated for up to 6 credits.

Prerequisite: Graduate standing and permission of instructor The student twill undertake a comprehensive civil engineering design project conducted under the supervision of their faculty advisor. The comprehensive design project is to be chosen by the student in conjunction with their faculty advisor.

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## CWR5305: Stormwater Management

Prerequisites: CWR 4202C Hydraulics Engineering, ENV 3001C Environmental Engineering, MAP 2302 Ordinary Differential Equations This course explores the management of Stormwater Quantity (flooding, low flow augmentation, etc.). The course involves an extensive use of case studies and focuses on the urban setting. Computer modeling techniques are emphasized.

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## CWR5545: Water Resources Systems

Prerequisites: CWR 4202C Hydraulics Engineering, ENV 3001C Environmental Engineering, MAP 2302 Ordinary Differential Equations This course introduces and applied simulation models and optimization methods to analysis, design and operation of water resource systems, including systems for water supply, water quality management, flood control and hydropower.

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## CWR6005: Introduction to Coastal Engineering

Prerequisite: CWR 3201 and CWR 4202C
Description: his course provides an introduction to the coastal environment with a focus on engineering and science applications. The course introduces important topics and physical processes necessary to understand and work in the coastal environment. These topics are the foundation for more advanced study of water wave mechanics, coastal processes, and coastal engineering design. Course topics include Coastal Zone Introduction, Basic Water Wave Theory, Wave Statistical Analysis (short/long term), Wind Waves and Storm Surges, Tides and Tidal Currents, Shorelines and Nearshore Processes, Inlet Systems, Coastal Management, and Environmental Aspects of Coastal Projects.

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## CWR6150: Engineering Hydrology

Prerequisites: CWR 4202C Hydraulics Engineering, MAP 2302 Ordinary Differential Equations This course covers the engineering applications of physical and statistical hydrology. The principles of surface and groundwater hydrology are reviewed. Tools for hydrologic analysis, including rainfall-runoff analysis, unit hydrographs, flow routing, statistical hydrology, and frequency analysis, are presented. The course culminates in the application of principles and analytical tools to hydrologic design, including design storms, design flows, and risk analysis. Students are introduced to the application of watershed models to hydrologic design.

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## CWR6236: River Engineering and Sediment Transport

Prerequisites: CWR 4202C Hydraulics Engineering, MAP 2302 Ordinary Differential Equations This course examines river flow hydrology, the processes of sediment entrainment, transport, and deposition, and the interaction of flow and transport in shaping river channels. Course topics include boundary layer flow; physical properties of sediment; incipient, bed-load and
suspended-load motion; bed forms; hydraulic roughness, velocity and stress fields in open channels, scour and deposition of bed material; and bank erosion. The course culminates in the application of principles and analytic tools to engineering interference (diversion, dams, dredging); river training works; and hydraulic model studies of rivers.

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## EGN6456: Advanced Engineering Analysis

Prerequisite: Graduate standing This course covers methods of analysis to applied engineering problems. The topics covered will include a review of vector calculus and linear algebra, analytical solutions and numerical integration of ordinary differential equations, introduction to finite element and finite difference methods, and an introduction to the solution of partial differential equations. Examples used in the course will be derived from the field of engineering. Students will be required to use computational tools for this course.

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EGN6457: Advanced Research Methods for Engineers

Description: his course covers the application of statistical analyses to engineering problems. The course emphasizes theory and methods of conducting advanced research, including the scientific method.

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## ENV5640: Design of Water Quality Management Facilities

Prerequisites: CWR 3201 Fluid Mechanics, ENV 3001C Environmental Engineering This course covers the analysis of operations, processes, and systems used in the design of facilities for maintaining water supply quality, wastewater control, and aquatic pollution control. The design of wastewater collection systems, water and wastewater treatment plants, and systems for disposal for residuals from such faculties is included in this course.

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## ENV6510: Aquatic Chemical Processes

Prerequisite: ENV 3001C Environmental Engineering This course covers the applicability of water chemistry and physical chemistry on natural waters and waste-water with emphasis on environmental engineering problems

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## ENV6511: Biological Treatment Systems in Environmental Engineering

Prerequisite: ENV 4012 Advanced Environmental Engineering This course covers the theory and design of biological operations and processes in environmental engineering using the latest technologies.

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ENV6519: Physical/Chemical Treatment Systems in Environmental Engineering

Prerequisite: ENV 3001C Environmental Engineering This course covers the theory and design of physical and chemical operations and processes in environmental engineering using latest technologies.

## TTE5205: Operational Analysis of Transportation Facilities

## Prerequisite: TTE 4004

Description: This course provides a detailed coverage of capacity and level of service analysis of freeways, surface streets, signalized and unsignalized intersections using methodologies of the Highway Capacity Manual.

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## TTE6315: Highway Safety Analysis

Prerequisite: TTE 4004
Description: This course provides a detailed coverage of safety analysis using methodologies of the Highway Safety Manual developed by the American Association of State Highway and Transportation Officials (AASHTO). Topics covers include; crash modification factors, safety performance functions, principles and techniques used in identification and evaluation of high crash locations, and corrective measures to enhance highway safety.

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## Graduate Courses

## Mechanical Engineering

## Course Descriptions:

## EGN6333: Advanced Mechanics of Materials

Prerequisite: EGN 3331 Mechanics of Materials This course will cover general theories of stress and strain, stress and strain transformations, and principal stresses and strains. The course will also cover octahedral shear stresses, introduction to elasticity and plasticity, introduction to constitutive behaviors, and introduction to yielding and failure criteria.

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## EML5105: Classical and Statistical Thermodynamics

Prerequisites: EML 3100 Thermodynamics I, EML 3101 Thermodynamics II This course continues the development of thermodynamic concepts to include thermodynamic property relations, energy, and chemical and phase equilibrium. The statistical basis for entropy and other thermodynamic properties are covered.

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EML5131: Combustion Phenomena
Prerequisites:EML 3100 Thermodynamics I, EML 3101 Thermodynamics II This course presents the physical and chemical aspects of combustion and associated phenomena. Rate processes, chemical kinetics, chemical structure, and flame propagation and stability of premixed and diffusion-controlled combustible mixtures are covered.

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## EML5211: Introduction to Continuum Mechanics

Prerequisite: Permission of instructor The course will cover the theory of solid and fluid continua, cartesian tensor theory, and kinematics of infinitesimal deformation. Relations between stress, strain, and strain rate for elastic, plastic, and viscous solids and for compressible and viscous fluids will be studied. General equations of continuum mechanics, integral forms, and their physical interpretation will be discussed. Equations and boundary conditions for elastic and viscoelastic solids and Newtonian fluids will be studied.

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## EML5315: Advanced Control System Theory

Prerequisite: EML 4313 Control of Machinery This course explores the analysis of dynamic mechanical engineering control systems. This course involves modeling, stability, transient response, frequency response, and state-space modeling with implementation consideration. Classical single-input single-output (SISO) linear systems are extended to multi-input multioutput (MIMO) systems.

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Prerequisites: EML 3100 Thermodynamics I, EML 3101 Thermodynamics II This course covers the properties and efficiencies associated with various fuel cell systems. Particular emphasis is placed on fuel cells characterized as phosphoric acid fuel cells, direct methanol fuel cell, and other direct conversion cells. Fuel cell applications are covered and compared to other energy conversion technologies.

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## EML5508: Finite Element Modeling and Analysis

Prerequisites: EGN 3203 Modern Computational Methods, EGN 3331 Mechanics of Materials This course will cover stress-strain relationships, design of mechanical components and assemblies, and finite element modeling and analysis. In-house modeling and analysis software will be used. Students will be exposed to theoretical background and real life applications. (A material fee of $\$ 40$ will be assessed.)

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## EML5606: Air Conditioning and Refrigeration

Prerequisite: EML 4601 HVAC Systems The course covers the control of the properties of air to meet comfort and industrial requirements. Methods of heating, humidification, cooling and dehumidifying based on thermodynamics, heat transfer and fluid flow considerations are discussed. The overall design of HVAC systems is discussed from determination of heating and cooling loads. The course will focus on designing optimum systems rather than workable systems.

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## EML5808: Robotics Engineering II

Prerequisites: EML 4313 Control of Machinery or equivalent, EML 4806 Robotics Engineering I or equivalent This course provides an introduction to control techniques associated with spatial serial and parallel manipulator systems. Velocity and force/torque relations and resolved motion rate control for serial and parallel manipulators are covered. State-space equations of robots, controller design based on linearization, nonlinearity cancellation, optimal control, adaptive control and other methods are studied.

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## EML5932: Special Topics in Mechanical Engineering

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Prerequisite: Permission of instructor This course will cover an in-depth study of a current mechanical engineering topic. The course content will vary each time the course is offered and will focus on state-of-the-art concepts that are not addressed in current course selections. May be repeated for up to 6 credits.

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## EML6311: Modern Control Engineering

Prerequisite: EML 4313 Control of Machinery This course covers the analysis and design of dynamic mechanical engineering control systems. Model reference control, state-space control system design, stability, transient response, frequency response with implementation considerations are covered. Advanced topics in intelligent control including optimal control, adaptive control, and fuzzy systems, neural networks and their implementation are also included.

## EML6417: Solar Energy Devices

Prerequisites: EML 4140 Heat Transfer, EML 3101 Thermodynamics II This course focuses on the study of solar energy systems with an emphasis on solar heating and cooling of buildings. The course includes the design of various types of solar collectors using different materials, working fluids, and geometries. The course will also discuss the theory of energy storage systems and the use of solar energy in electricity generation.

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## EML6451: Energy Conversion

Prerequisites: EML 3100 Thermodynamics I, EML 3101 Thermodynamics II This course studies various methods of energy sources, energy storage, and energy utilization. The course will include a survey of energy conversion systems using combined cycles, the comparison of systems based on total energy concepts, the consideration of renewable and exhaustible sources of energy. The course will emphasize solar energy, fossil fuels, nuclear energy, and direct energy conversion systems including thermoelectric, photovoltaic, MHD, and fuel cells.

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## EML6556: Mechanical Engineering Master's Project

Prerequisite: Graduate standing and consent of instructor The student will undertake a comprehensive mechanical engineering design project conducted under the supervision of their faculty advisor. The comprehensive design project is to be chosen by the student in conjunction with their faculty advisor.

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## EML6809: Intelligent Planning for Robotic Systems

Prerequisite: Graduate standing and consent of instructor This course covers the extension of robot mechanics to trajectory generation, kinematic control, and force control of single-arm robot manipulators. Off-line path planning associated with re-configurable robotics, dual-arm robotics, and mobile robot systems is also developed. Students perform simulation projects to implement and apply course topics.

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## EML6900: Supervised Graduate Research

Prerequisites: Graduate Status; permission of instructor and department chairperson This course is an investigation of topics in Mechanical Engineering at the advanced level. The course may be repeated for a maximum of 6 credits.

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## EML6933: Special Topics in Mechanical Engineering

Prerequisite: Graduate standing and permission of instructor This course will cover an indepth study of advanced mechanical engineering topics. The course content will vary each time the course is offered and will focus on state-of-the-art concepts that are not addressed in current course selections. May be repeated for up to 6 credits.

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## EML6972: Mechanical Engineering Master's Thesis

Prerequisite: Graduate standing and consent of advisor The student will conduct individual research on a topic relevant to mechanical engineering. The research topic will be chosen by the student in conjunction with their advisor. The course may be repeated for up to 6 credits.

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## Graduate Courses

## Computing

## Course Descriptions:

## CAP5605: Introduction to Artificial Intelligence

## Prerequisite: COP 3530 or COP 3540

Description: This course is intended for beginning graduate students lacking background in this area. Course topics include heuristic techniques for problem solving and decision making, control and search strategies, knowledge representation, logic, and AI languages and tools. Applications such as expert systems, natural language understanding, planning, and computer vision will be covered. Students will extend course topics via library assignments or other instructor-assigned requirements.

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## CAP5661C: Introduction to AI Robotics

Prerequisite: COP 3530, COP 3601, and graduate standing
Description: This course focuses on models and methods for the design and development of robotic devices whose function is to accomplish prescribed tasks with minimal human intervention. Basic robotics elements are addressed: simple mechanics (moving, turning, lifting), sensing the environment (light, contact, proximity), monitoring internal state (time, position, orientation). Autonomous and semi-autonomous robots are designed, constructed, and programmed by combining basic reactive behaviors to support higher levels of cognition. Laboratory exercises are incorporated throughout the course, with a term objective of implementing a working robot to address a performance/survival specification. Students will extend course topics via library assignments or other instructor-assigned requirements.
Course Fees: \$25
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## CAP5715: Computer Graphics

Prerequisites: MAS 3105 and COP 3530. For beginning graduate students. Point-plotting techniques, line drawings, two- and three-dimensional transformations, clipping and windowing, data and file structures, interactive techniques, raster systems, perspective, hidden surface removal, shading. Students will extend course topics via library assignments or other instructor-assigned requirements.

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Prerequisite: COP 5716 or equivalent. Students will study concepts and techniques of data mining, including Characterizing and Comparison, Association Rules Mining, Classification and Prediction, Cluster Analysis, and Mining Complex Types of Data. Students will also examine Applications and Trends in Data Mining.

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Prerequisite: STA 4321 or STA 2023 and COP 3530 or COP 3538
Description: This course is intended for beginning graduate students lacking background in this area. Course topics include model building; queuing models; design of experiments; simulation techniques; utilization of probability density functions; pseudo-random number generation; simulation tools such as GPSS, SIMSCRIPT, and SLAM; interpretation of results; simulation animation; and continuous simulation. Students will extend course topics via library assignments or other instructor-assigned requirements.

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## CAP6100: Interface Design and Implementation

Prerequisite: CEN 6016
Co-requisite: CEN 6016 This course covers issues associated with the design, implementation, and evaluation of human/computer interfaces including interface devices, metaphors, and interaction styles. Topics covered include task analysis; dialog models and examples; user centered design including naive and expert user interfaces; interface development methodologies and implementation tools; interface testing and quality assessment.

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## CAP6400: Graphics Image Recognition and Manipulation

Prerequisite: CAP 5715. For advanced graduate students. Pattern recognition: edge following, thinning, feature extraction, pattern matching, syntactic pattern recognition. Image processing: image data representation, file formats, data compression, point and area processing, histogram equalization, adaptive histogram equalization, frequency domain, FFT, filters, noise handling, edge detection, color images.

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## CAP6671: Intelligent Systems

Prerequisite: Permission of the instructor. The course may be repeated for credit with the consent of the Department. Each course offering examines an area concerned with intelligent systems chosen from among artificial intelligence, logic programming, language translation, vision, robotics, simulation, neural networks.

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## CDA5106: Introduction to Computer Architecture

Prerequisite: CDA 3101
Co-requisite: CDA 5106L
Description: This course is intended for beginning graduate students lacking background in this area. Topics include computer taxonomy, description languages, conventional computer architecture, microprogramming, instruction sets, I/O techniques, memory, and survey of nonconventional architectures, as well as software interface. Students will extend course topics via library assignments or other instructor assigned requirements.

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Prerequisite: CDA 3101
Co-requisite: CDA 5106
Description: This course comprises the laboratory exercises to accompany CDA 5106 emphasizing computer architecture, microprocessing, instruction sets, I/O techniques, and memory using software interfaces. 3 hours of laboratory.

## CEN5805: Systems Integration

Prerequisite: COP 4710 or CIS 4327 or CGS 4308 or equivalent This course studies the process of integrating different systems and software applications by examining current and emerging trends, strategies, and techniques for developing systems integration solutions effectively. Example topics covered include, but are not limited to: systems interoperability issues and challenges, documenting integration requirements using business process models, designing integration solutions reusing patterns, and implementing integration solutions using service oriented architecture. Students will extend course topics via library assignments, programming assignments, tool evaluation assignments, and other assigned activities.

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## CEN6016: Engineering of Software I

Prerequisite: COP 3540 or COP 4534 or equivalent. Topics covered in this course include: methods, techniques, and practices associated with software development that go from elicitation or requirements to the analysis of both the problem and solution domains; formal methods, executable specifications, classical and object-oriented approaches; support tools, and quality assurance practices; team-oriented project using methods, techniques and practices learned.

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## CEN6017: Engineering of Software II

Prerequisite: CEN 6016. Topics covered in this course include: the design of a software system using classical and object-oriented approaches; software architectures, frameworks, functional and object-oriented decomposition, prototyping, design and implementation of reviews and walkthroughs, GUI design and implementation, interoperability, support tools, and quality assurance practices; team-oriented project used methods, techniques and practices learned.

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## CEN6036: Web Engineering

Prerequisite: CEN 6016 or equivalent. In this course, topics covered include the application of software engineering principles and techniques to the development, deployment, and maintenance of high quality Web-based systems and applications; markup languages, distributed objects, hypermedia and Web integration; architecture and security issues; client side and server side technologies; distributed technologies; data integration across heterogeneous Web sources.

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## CEN6070: Software Quality Assurance and Testing

Prerequisite: CEN 6016. Topics covered in this course include: the quality of the software product; techniques with the stages of verification and validation; reliability; correctness, testing methods, coverage measures, testing specialized applications, formal verification, testing management techniques and support tools; team-oriented project used methods, techniques and practices learned.

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Prerequisites: Software Engineering core: CIS 6101, CEN 6016, CEN 6017, and CEN 6070. This course involves a supervised team project, including field experience with real customers, to address a major software development effort that employs methods, techniques, and practices covered in the Software Engineering core.

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CIS5105: Systems Performance and Evaluation
Prerequisite: CDA 3100 and COP 3538
Description: This course is intended for beginning graduate students lacking background in this area. Course topics include tools and techniques used in the evaluation of the performance of computing systems, empirical modeling, methods, simulation models, and deterministic and stochastic methods. Students will extend course topics via library assignments or other instructor assigned requirements.

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## CIS5865: Spatial Information Systems Administration

Prerequisite: CIS 5871C Advanced Spatial Information Systems This course will provide the participants with the advanced knowledge of the professional practices needed to be able to administer enterprise-scale Spatial Information Systems (SIS) and to manage the development and implementation of specialized applications that utilize SIS technology as a component. The course will utilize guest lectures by SIS professionals to present case studies of professional practices. Participants will work in groups to execute a series of peer-reviewed assignments in which each group develops the requirements for development of a SIS application, a competitive professional proposal, and a SIS business plan. Participants will also be required to conduct an individual research project and make a professional presentation.

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## CIS5870C: Introduction to Spatial Information Systems

An introduction to Spatial Information Systems (SIS): the technology of acquiring, managing, analyzing, and displaying information in a spatial context. The course focuses on the unique technical and institutional issues associated with designing and implementing a spatiallyenabled Information Technology infrastructure in a public or private enterprise. The participants will get hands-on experience with industry-standard technology including: Geographic Information System and Global Positioning System hardware and software. Practical exercises provide a pathway to understanding how fundamental spatial theory and principles become relevant in the context of developing practical applications using these technologies. Students will be required to conduct an individual research project and make a professional presentation.

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## CIS5871C: Advanced Spatial Information Systems

Prerequisite: CIS 5870C This course will provide participants with advanced knowledge of spatial principles and professional practices related to enterprise-scale Spatial Information Systems (SIS) and specialized applications that utilize SIS technology. The course will explore how SIS technology can be integrated with other technologies to create new business process models. The laboratory component will provide participants with the advanced technical skills needed to design and implement a SIS and develop applications that utilize SIS technology. The course will give participants a "hands on" opportunity to explore how SIS technology can be integrated other technologies such as mobile computing, the web, and wireless communications. Participants will be required to conduct an individual research project and make a professional presentation.

## CIS5930: Special Topics in Computer and Information Sciences

Description: This course is reserved for beginning graduate students and advanced undergraduates. Topics are reflective of current faculty interests and advances in state-of-theart computing not adequately addressed in current course offerings.
Repeatability: May be repeated up to 12 credits.
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## CIS5935: Seminar <br> v. 1-

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Prerequisite: Permission of the School of Computing
Description: Course topics will reflect broader interests than covered in a standard course. Students will be expected to make presentations of material extracted from current trade publications.
Repeatability: May be repeated up to 12 credits
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## CIS5949: Experiential Studies in Computing <br> v. 1-

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Prerequisite: Acceptance to the Graduate Program in Computing and Information Sciences and for the cooperative education program
Description: Students will participate in supervised work experiences related to computing. Up to 3 credits may be applied to the elective category for the Master of Science in Computing and Information Sciences
Repeatability: Students may receive repeat credit for this course.
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## CIS6101: Software Processes and Metrics

Prerequisite: CEN 6016. Topics covered in this course include: software life cycle and process models; software metrics, software estimation, software standards, configuration management, version control, planning, scheduling, tracking, risk management, maintenance and reengineering; capability measures such as CMM; process approaches such as PSP, extreme programming, and TSP; ethical and professional issues; support tools; team-oriented project used methods, techniques and practices learned.

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CIS6302: Distributed and Internet Systems
Prerequisite: CNT 5505 or equivalent. This course covers topics in distributed and Internet systems from among design issues; mobile and wireless systems; resource allocation; load balancing; security; reliability; file systems; performance evaluation and architectural enhancements to improve performance. Case studies such as the distributed object architectures of CORBA and RMI are used to illustrate topics.

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management as they apply to information technology enterprises. Emphasis on the unique requirements of software projects and the personnel involved in them examined in the context of the current information technology workplace.

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## CIS6900: Directed Individual Study

v. 1-

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Description: This course is reserved for advanced graduate students, on topics supportive of the student's overall program.
Repeatability: May be repeated with permission.
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## CIS6910: Project

Prerequisite: Permission of Director of Graduate Studies for Computing and Information Sciences
Description: This graduate project is for advanced graduate students nearing completion of the degree. It requires completed proposal and approval prior to the semester of intended enrollment.

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CIS6930: Special Topics in Computer and Information Sciences

Description: This course is reserved for advanced graduate students, on topics reflective of current faculty research interests.
Repeatability: May be repeated up to 27 credits.
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## CIS6935: Seminar

v. 1-

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Topics reflect broader interests than covered in a standard course. Students will be expected to make presentations of material extracted from current trade publications. May be repeated up to 27 credits.

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CIS6970: Thesis

Description: This course is reserved for advanced graduate students nearing completion of the Masters degree.
Repeatability: May be repeated up to 6 credits.
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CNT5505: Computer Networks and Distributed Processing
Prerequisite: COP 3530 or COP 3538
Description: This course is intended for beginning graduate students lacking background in this area. Tpoics include network architecture and protocols in computer communication networks, network elements and topology, switching and routing, and, data management and
security in a distributed environment. Students will extend course topics via library assignments or other instructor assigned requirements.

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## CNT6707: Network Architecture and Client/Server Computing

Prerequisite: CNT 5505 or equivalent. Topics covered in this course include: the technology and architecture of high-speed WANs and LANs including ATM, ATM-LANE, FDDI, fast and gigabit Ethernets; design and performance issues in high-speed networks; traffic analysis and queuing; resource allocation and congestion control; QoS parameters; RSVP and differentiated services; network security; wireless networks.

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## COP5615: Operating Systems

Prerequisite: STA 4321 and COP 3404
Description: This course is intended for beginning graduate students lacking background in this area. Topics include process management, memory management, file management, input/output device management, and distributed systems issues. Students will extend course topics via library assignments or other instructor-assigned requirements.

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## COP5625: Construction of Language Translators

Prerequisite: COT 3210 and COP 3404
Description: This course is intended for beginning graduate students lacking background in this area. Topics in this course will include grammars, languages, parsing, precedence, runtime storage organization, semantic routines, error recovery, optimization, intermediate code representations, scope, symbol tables, and compiler-compilers. Students will extend course topics via library assignments or other instructor-assigned requirements.

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## COP5716: Data Modeling and Performance

Prerequisite: COT 3210 and COP 3404
Description: This course studies dynamic storage management, compression, data abstraction, data models (hierarchical, network, relational), query languages, concurrency and security, grammatical validation and standards. Schema design methodologies and evaluation including object oriented, semantic, functional entity-relationship data models, CASE tools, and SQL engine design are covered. Students will extend course topics via library assignments or other instructor-assigned requirements.

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## COP5819: Internet Programming

Prerequisite: COP 3530 or COP 3538
Description: This course presents various approaches to building large enterprise systems to be deployed on the World Wide Web (WWW). Examples include, but are not limited to: classical multitiered, client-server, service-oriented, grid computing, utility computing, software as a service, smart clients, and web services. It also presents current development platforms (eg. J2EE, .NET), development frameworks (e.g. JSP-based, ASP-based), development environments (e.g. Eclipse), and related technologies (e.g. Tomcat JSP Container, Microsoft IIS Server)used to build and deploy such systems. Finally, it also discusses current trends in connection with relevant quality attributes these systems should exhibit, such as (but not limited to) security, privacy, reliability, mobility, and performance. A comprehensive software development project is used to apply covered concepts.

## COP6557: Programming Language Design Paradigms

Prerequisites: COP 5615 and COT 3210 or equivalent. Topics covered in this course include: operating system support features required by different programming paradigms; run time symbol tables and semantics; compiling vs. interpreting; binding and execution time requirements; storage management; subprogram control; implementation of inheritance; strong vs. weak data typing.

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## COP6611: Advanced Operating Systems

Prerequisite: COP 5615 or equivalent. For advanced graduate students. Advanced topics in operating systems such as network operating systems, distributed operating systems, distributed shared memory, object-based systems, distributed file access

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## COP6616: Parallel Computing

Prerequisites: COP 5615 and COT 5405, or equivalent. In this course, topics covered include: parallel models and hardware architectures (shared-memory, message-passing, threads); basic communication operations; concurrency and synchronization techniques; parallel algorithms analysis and design; problem partitioning and mapping; parallel programming paradigms and environments; cluster-based computing; performance and scalability issues; parallel simulations; new trends in parallel computing.

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## COP6711: Database Engineering and Administration

Prerequisites: COP 4720 and CEN 6016 or equivalent. This course covers the application of software engineering approaches in the strategy, analysis, design, implementation, verification, and validation phases of large scaled database design. Design issues and the user's role are studied. Database administration and management responsibilities are examined.

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COP6735: Developments in Database Structures
Prerequisite: COP 5716 or equivalent. This course covers traditional and emerging databases with emphasis on advanced areas in development methodologies, object orientation, connectivity, and query language/optimization. Research projects in selected topics, such as distributed, knowledge base, deductive, multimedia, spatial/temporal, data warehousing, and web databases, will be developed

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## COT5405: Algorithms and Complexity

Prerequisite: COT 3210 and COP 3530
Description: This course is reserved for beginning graduate students lacking background in this area. Topics include analysis of various algorithm design strategies, divide-and-conquer, greedy method, backtracking, branch-and-bound, lower bound theory, and, NP-hard and NPcomplete. Students will extend course topics via library assignments or other instructor assigned requirements.

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Prerequisite: COP 3530 or COP 3538 AND STA 2023 or STA 4321
Description: This course studies computer algorithms and technologies used in music analysis, synthesis, and processing. Topics include, but are not limited to: music signal processing, knowledge representation in digital music, interactive systems for music learning and composing, music emotion recognition and automatic music recommender systems. This course demonstrates how computing and engineering concepts, including programming, algorithms, data structures, algebra, probability/statistics, and signal processing, are applied to digital music research. The class includes weekly readings of contemporary scientific literature in the field of computational music research, project presentations, in-class discussions, and hands-on assignments. Students complete a final project in which they create software systems to improve everyday musical experiences via the use of computer technologies. Students will extend course topics via library assignments or other requirements such as a research term paper.

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## COT5561: Applied Graph Theory

Prerequisite: COT 3100 and (COP 3530 or COP 3538 or equivalent)
Description: Topics in graph theory including coloring, domination, and flows will be covered, as well as applications of graph theory in computing and modeling real-world phenomena, and graph algorithms. An individual research project will be required.

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## COT6416: Computational Complexity

Prerequisites:COT 3210, COT 4400 or COT 5405 This is a course in structural complexity theory. The focus is on the models of computation and the structure and relationship among the important classes of computational problems such as P, BPP, NP, co-NP, and PSPACE. Results on the hardness of approximating optimization problems which follow from the PCP Theorem and the theory interactive proofs will be presented.

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## Graduate Courses

## Childhood Education, Literacy and TESOL

## Course Descriptions:

## EDE6205: Teaching All Children

This graduate course is about planning for and delivery of instruction to meet the social, cognitive and physical needs of all children. It provides diverse perspectives of and skills for partnerships among educators, children, and their families.

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EDE6225: The Elementary School Curriculum
Basic concepts of curriculum development and evaluation applied to the elementary program.
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## EDE6910: Directed Individual Study and Research

Prerequisite: Consent of instructor and division chairperson. Pursuit of individual investigation of specific topic or field problem with faculty guidance. May be repeated up to 24 credits.

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EDE6935: Special Topics
This graduate course enables study of special topics related to the education of children. It may be repeated with a change of content for up to a maximum of 9 credits (3 different threehour classes).

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## EDE6940: Professional Laboratory Experiences

Prerequisites: Completion of 21 graduate program hours, EDF 6480 and EDE 6225.
Competencies in measurement, evaluation and curriculum are necessary for completion of this culminating experience. Application of theories, techniques and methods for improving teaching in real and/or simulated situations.

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## EDE6946: Student Internship

Prerequisite: Successful completion of all courses and requirements prescribed on the Master of Education in Elementary Education Initial Certification program of study. This course is designed to be the culminating experience in the student's major field of study. Students apply knowledge, skills, and dispositions under the supervision of a directing teacher and college supervisor in a field setting.

## EDG6455: Storytelling

An investigation of storytelling and its role in educational settings. Develops resources and means for enhancing collective and personalized learning.

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## EEC6205: Curriculum and Instruction in Early Childhood Education

Classroom organization and teaching strategies for teachers of primary aged children.
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## EEC6261: Program Planning for Infants and Toddlers

This course provides students with an understanding of culturally, linguistically, and developmentally appropriate programs in community settings providing services to infants and toddlers and their families. It emphasizes the importance of understanding the nature of infants and toddlers and how they learn and is organized to ensure an understanding of the domains of development. Special emphasis stresses the necessity of understanding the infant and toddler in the context of his or her family and community.

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## EEC6611: Early Childhood Education

Theoretical bases and resultant trends in the developmental programs for primary aged children.

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## EEC6756: Social-Emotional Learning and the Young Child

Examine the importance of social-emotional learning and the young child (ages 0-8). The scope of the course will include: defining emotions, exploring how children develop socially and emotionally, defining an emotion-centered curriculum, exploring the connections between social development and other domains of development: cognition, language, and adaptive. We will pay particular attention to the role that parent-child and teacher-child interactions play in the normative development of children's social competence.

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EEC6944: Practicum in Early Childhood Education
Prerequisite or corequisite: EEC 6611, EEC 6205. Observation and interpretation of classrooms for primary aged children. The student will select special topics related to effective practices for teachers of young children.

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## LAE6315: Teaching Writing K-6

Prerequisite: Undergraduate degree. This course is designed to facilitate the acquisition of skills in teaching writing, grades K-6. Students will assess factors contributing to elementary pupils' success in learning to write, via their own research and by experiencing and reflecting on stages of the writing process.

The language arts in the elementary curriculum. Methods for integrating communication skills development across the curriculum are emphasized.

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## LAE6338: Teaching Writing 6-12

Prerequisite: Undergraduate degree. This course is designed to facilitate the acquisition of skills in teaching writing, grades 6-12. Students will assess factors contributing to secondary pupils' success in learning to write, via their own research and by experiencing and reflecting on stages of the writing process.

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## LAE6415: Teaching Literacy with Children's Books

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An analysis of children's literature and its place in the elementary program.
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## MAE6317: Teaching Elementary Mathematics Using Technology

Prerequisite: Completion of specialization requirements for elementary education. The course focus is on the integration of technological tools to the teaching of mathematics at the elementary level. The purpose of the course is to provide ways to infuse mathematics across the curriculum using a problem solving approach and technological delivery system.

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MAE6318: Mathematics for Elementary Teachers
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An extension of competencies in mathematics instruction in the elementary grades.
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## PAX6940: Practicum in Conflict Transformation

Prerequisites:EDG 6403 Foundations of Transformation, EDA6935 Applied Transformation of Conflict In consonance with the mission of the University of North Florida, this course will be focused on community-based learning in one or more contexts. Learning will occur through experiential and reflective engagement. Students will work on the peaceful transformation of conflict in an approved situation that augments their learning and skill development. Students will demonstrate professionalism while they provide service in the advancement of peaceful conflict transformation. With faculty approval, a student may repeat this course once, for a total of six semester units.

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## RED5846: Practicum in Reading

Prerequisites: RED 3310, RED 3311. Demonstration of reading teaching competencies in the school setting.

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In consonance with the School of Education conceptual framework this course will be focused on the acquisition of knowledge skills, and dispositions for the successful teaching/learning of reading in the classroom. This course is an advanced analysis of English language structure as it relates to literacy development, language development in native language and English as a second language, theories of language, research in language development, and the issues and experience important to language development as the foundation of reading.

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## RED6303: Building Literacy through Play

Description: This course focuses on the value of play on literacy learning for early childhood through the intermediate grades. Theory, research, and methods for teaching language and literacy through play and interdisciplinary learning will be covered. Topics will include intentionality, differentiation, critical literacy, and culturally and developmentally appropriate standards-based creative arts integrated learning experiences for all students.

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## RED6345: Motivating Reluctant Readers

Description: This course focuses on understanding the importance of motivation when teaching reluctant readers and exploring motivation theories and constructs. Additionally, this course will address how teachers can implement practices that support motivation in elementary and secondary classrooms. Topics will include exploring definitions of â €œreluctant readers,â€ creating contexts for motivation, using rewards to motivate reluctant readers, and discovering books that can motivate reluctant readers to want to read.

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## RED6347: Reading as Communication in Whole Language Classrooms

Reading as communication is viewed as a part of a continuum of literacy learning processes involving listening, speaking, writing, reading and thinking. Teachers are encouraged to become professional decision makers who create learning environments which encourage risk taking and value learning processes as highly as literacy encounter products.

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## RED6349: Teaching Literacy through Storytelling

Description: The course focuses on teaching literacy Pre-K-12 through storytelling. It is a study and application of narrative and performance for developing speaking, listening, reading, and writing skills.

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## RED6395: Adv Reading Assessment/Implementation of Reading Programs

This course will focus upon the administration and interpretation of instructional assessments with instructional strategies and materials based upon scientifically-based reading research for the prevention and remediation of reading difficulties. Students will be taught knowledge and skills to implement school reading programs based upon evaluations using a variety of assessments measuring student achievement, teacher effectiveness, and scientifically-based reading research. Specifically, students will learn how to select research-supported reading
materials and strategies designed to impact student achievement. They will learn techniques and procedures for maintaining assessment-driven classroom and school-wide reading programs.

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#### Abstract

RED6546: Diagnosis of Reading Disabilities Prerequisite: RED 3310 or equivalent and reading teaching experience. Description: Study of reading as a language process; diagnosis of reading strengths and weaknesses based on measurement and evaluation instruments, resulting in the preparation of a complete diagnostic evaluation.

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## RED6548: Remediation of Reading Disabilities

Prerequisite: RED 6546. Use of miscue analysis to investigate qualitative and quantitative diagnostic information and sources of activities for reading instruction, diagnosis, prescription, and formative evaluation.

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## RED6656: Advanced Foundations of Reading

Presents reading as a language process; also presents models, materials, and skill development used in reading instruction; explores reading instruction in terms of historical perspective, trends, innovation, and technology.

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RED6697: Teaching New Literacies

Description: Because we are living and teaching during the greatest literacy communication of all-time our teaching must keep pace with the various ways in which we communicate both in-and-out of school. This course will introduce and define why it is critical that we teach new literacies during the 21st century. This course will also introduce students to preparation of appropriate new literacy instructional planning and implementation.

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RED6698: Teaching Critical Literacy

Description: With a focus on empowering both teachers and students to better understand a more media-rich, textually diverse literacy climate, this course will explore the theory and the rationale for teaching critical literacy in modern classrooms. Along with learning the theory and rationale for why critical literacy pedagogy is critical in a more media-rich, textually diverse literacy climate, this course will also address how teachers can begin to implement critical literacy theory in their own classrooms.

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RED6796: Literacy Research, Issues and Trends

Description: This course reviews significant research in literacy and its effect on literacy practices in schools. Participants learn to critically analyze literacy/reading research, review and compare trends in development of materials, approaches and reading programs. Special attention will be given to policies and public opinion that have impacted literacy practices in
contrast to research evidence and why this has occurred.
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## RED6906: Directed Individual Study in Reading <br> v. 1-

Prerequisites: RED 6656, graduate reading emphasis major and division approval. Individually directed study of topics related to reading instruction. May be repeated for credit.

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## SCE6117: Science for Elementary Teachers

Advanced study of content, resources and processes used in science programs in the elementary school.

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## SSE6318: Social Studies Methods for Elementary Teachers

An examination and assessment of current emphases and strategies for social studies instruction in the elementary program.

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## TSL6142: ESOL Curriculum Development

A review of theories, principles, research, and instructional practices related to first and second language acquisition. Instruction of Limited English Proficient students will be emphasized and issues of curriculum development and evaluation will be applied to development and modification of curriculum materials.

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TSL6252: Principles of Linguistics in ESOL
This course provides a brief overview of language systems and stresses the application of linguistic knowledge to TESOL (Teaching English to Speakers of Other Languages). English is compared and contrasted with other languages in the areas of phonology, morphology, syntax, semantics, and pragmatics. Instruction of English Language Learners is emphasized.

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## TSL6345: Methods of Teaching in ESOL and Bilingual Settings

Prerequisite: Teaching certificate or admission to the COEHS. This course is an examination of issues and methods for teaching English as a second language in grades K-12 and adult education programs. Techniques and strategies for teaching the communication skills of listening, speaking, reading, and writing will be emphasized.

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TSL6350: Grammar for Teachers of ESOL
This is an advanced course that addresses the facets of English grammar that influence the language development of second language learners. Emphasis is placed on examination of traditional concepts of language, understanding of research on grammar development and exploration of the relationships among language learning, grammar development and effective teaching strategies.

## TSL6440: Assessment in ESOL Settings

Prerequisite: Teaching certificate or admission to the COEHS. This course is designed for teachers working in settings serving students whose native language is not English. Assessment issues involving placement, diagnosis evaluation, use of traditional assessment instruments and procedures, and use of alternative assessment methods will be explored.

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## TSL6525: Cross-Cultural Communication and Knowledge

This course is a study of multicultural issues for ESOL teachers. Emphasis is on developing cultural awareness, applying cross-cultural knowledge to classroom management and instruction, understanding sociocultural influences on identity development, and understanding values, beliefs, customs, lifestyles, and non-verbal communication of non-native and dialect speakers of English.

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## TSL6700: Issues in ESOL for School Counselors

This course provides an overview of key issues related to the schooling of English Language Learners (ELLs) and struggling readers as they affect school counselors. Emphasis is placed on such dimensions of diversity as culture, ethnicity, race, language, social class, exceptionality, gender, age, sexual orientation and their implications for educational policy, curriculum, and methodology.

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TSL6940: TESOL Practicum
V. 3-

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Description: This course requires teaching experience in the field with English Language Learners. Peer and instructor class observations and coaching sessions will be given during weekly seminar-style meetings and in the field. Practicum students' structured experiences in classroom observations, lesson planning, and assisting/facilitating lessons for ELLs, will be based on current research and practices in TESOL (Teachers of English to Speakers of Other Languages). Candidates and the practicum instructor collaborate with various ESOL programs in the community to facilitate the practicum for the candidates.

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## Graduate Courses

## Foundations and Secondary Education

## Course Descriptions:

## EDF5608: Sociological Bases of Education

A study of the contemporary social forces and their effect on the organization and nature of American education. The function of education in social change and concepts of multiculture education are addressed.

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## EDF6211: Advanced Educational Psychology

This course is a Master's level course for teachers focusing on classroom applications of behavioral and cognitive views of learning, learner development, learner diversity, motivation and effective instruction.

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## EDF6442: Assessment in the Curriculum

An in-depth study in the application of principles and methods of assessment. Focus on alignment of the curriculum, instructional methods, and evaluation; construction, administration, and interpretation of measurement instruments; research on published standardized tests; and utilization of technology.

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## EDF6687: Multicultural and Urban Foundations of Education

This course examines theoretical and philosophical approaches to multicultural education; cultural learning and lifestyles; issues of class, race, ethnicity, gender and language; and policy, instruction, and curriculum issues in schools with diverse student populations.
Emphasis is placed upon Americans of Native, African, Asian, Hispanic and other immigrant origins.

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## EDF6905: Research: Studies in Education

v. 1-

3

Field-centered individual or group investigation of educational problems of an interdepartmental or interdisciplinary nature. May be repeated up to 24 credits.

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EDF6971: Research for Master's Thesis
v. 1-

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designed to guide qualified M.Ed. candidates through the steps necessary to complete a master's thesis.

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## EDG5935: Seminar: Studies in Education <br> v. 1

Study of interdisciplinary or interdepartmental problems which are related to education. May be repeated up to 24 credits.

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## EDG6070: Teacher Thinking and Decision Making In School Settings

This course provides the field-based participants with the knowledge and skills necessary to understand their curricular and instructional decision making for continuous improvement of teaching.

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## EDG6250: Instructional Strategies in the Curriculum

This course is a graduate level course designed for inservice educators and post baccalaureates who are working toward state teacher certification in Secondary Education. The course focuses on two areas of the teacher's professional role: Instructional planning and instructional delivery. The course is designed to enable teachers to guide students in their development as whole persons, helping them to learn through direct and varied forms of encounter with the world as a foundation for clear, rigorous thinking; to bring all the resources of the culture to help them experience meaning, identity, purpose, and responsibility in the whole of life.

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## EDG6325: General Education Competencies Models of Teaching

Investigation, discussion, and implementation of curriculum models as they apply to current education, including an analysis of their philosophical, historical, and psychological foundations.

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## EDG6336: Improvement of Instruction

Philosophy, research, theory and practice related to the presentation of organized bodies of knowledge.

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EDG6380: Supervision of Preservice Teachers
The function of the cooperating teacher who supervises preservice teachers.
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This course is structured around four key components: (1) a broad-based theoretical understanding of the attributes of positive effective learning environments; (2) pedagogical and professional knowledge regarding the needs of students as they relate to positive student
social maturation and cognitive growth; (3) a systematic and focused continuum of effective strategies for obtaining desired goals that are appropriate to the students, learning context, the specific instructional intents, the teacher's beliefs, existent skills, and knowledge; (4) a philosophical foundation that supports the development and application of the dispositions appropriate to the profession in all stages of preparation. The course is designed to provide both theoretical knowledge for future cognitive growth, but also to develop management strategies and plans for immediate implementation.

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## EDG6626: Curriculum and Instruction for Adult Learning

Prerequisites: EDA 6302. This is an advanced course that presents the principles of adult learning and instruction. Attention is given to those situations, factors, and methods that may influence how adults learn in a variety of traditional, non-traditional, and multimedia/telecommunication settings. An analysis of several teaching models and instructional approaches for creating learning environments for adults appropriate for community colleges, continuing education, and training and development will be focal element of the course. This will be achieved through study, development, and application of different models of instructional designs for adult learners as well as identifying and evaluating variables related to these models.

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## EDG6632: Multicultural Content in School Curriculum

Emphasis is upon developing curriculum units that infuse multicultural content in the school curricula for art, music, literature, social studies, science and mathematics. Emphasis is on ancient and modern cultural contributions of African, Asian, Hispanic, Native American and other cultural and ethnic groups.

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## EDG6735: Cultural Learning Styles of Minority Students

A study of the theory, research, and practice about the cultural learning styles of African American, Hispanic American, Asian American, Native American, Poor Whites and selected other groups. Emphasis is placed upon (1) how culture influences learning and (2) culturally responsive methods of instruction in culturally diverse classrooms.

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## EDG6757: Teaching Linguistically Diverse Students

A study of the theories, practices, and methods of constructively using the school students' first language as the basis for mastering standard English. Emphasis is placed upon Black English as a sociolinguistic system, principles of teaching English as a second language to non-native speakers of English, and verbal and nonverbal communication as sources of cultural conflict in the classroom. African American, Hispanic American, Asian America, and other linguistic heritages are included.

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## EDG6906: Individual Study and Research

Consent of division chair or specific faculty member required. May be repeated up to 24 credits.

Prerequisite: Culminating Experience/Chair Signature. A culminating master's degree course designed to synthesize the major components of the Curriculum and Instruction graduate program.

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## ESE6215: The Secondary School Curriculum

In-depth reading and discussion of the curriculum organization and operation of the secondary school (grades 6-12).

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## ESE6947: Professional Laboratory Experiences <br> v. 1-

Prerequisites: Completion of 21 graduate program hours and ESE 6215. (Competencies in measurement, evaluation, and curriculum are necessary for completion of this culminating experience.) Application of theories, techniques, and methods for improving teaching in real and/or simulated situations.

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## FLE6665: Current Trends in Teaching Foreign Languages

Prerequisites: FLE 4333 or teaching experience, as well as fluency in the target language and in English. This course is designed for the experienced classroom teacher or for individuals with a background in foreign language methods. It provides updated information on programs and methodology regarding the teaching of foreign languages. The focus is on a proficiencyoriented approach and its implications in the classroom.

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## LAE5330: Teaching Shakespeare's Plays

Prerequisite: Equivalent of Baccalaureate Major in English. This course allows teachers to expand their repertoire of knowledge and teaching strategies for presenting Shakespeare's plays in interesting and challenging ways to their students. Plays from all periods and modes are included. Research and development required.

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LAE6339: Special Methods in Teaching English
Prerequisite: Regular English teaching certificate. (Florida or its equivalent). An advanced analysis of the instructional methods, materials, curriculum, and research related to teaching secondary level English.

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## MAE6336: Special Methods in Teaching Mathematics

Prerequisite: Regular mathematics teaching certificate (Florida or its equivalent). An advanced analysis of the instructional methods, materials, curriculum, and research related to teaching secondary level mathematics.

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Independent investigation of a specific topic, field problem, or career role with faculty guidance. May be repeated up to 16 credits.

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## SCE5465: Science, Technology and Society

This course examines instructional methods, materials, and curricula for teaching the sciences within a context that considers the interaction of science, technology, and society. It is used for science certification and in graduate program of study.

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## SCE6337: Special Methods in Teaching Science

Prerequisite: Regular teaching certificate in the science area (Florida or its equivalent). An advanced analysis of the instructional methods, materials, curriculum, and research related to teaching secondary level science.

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SSE6385: Special Methods in Teaching Social Studies
Regular teaching certificate in the Social Studies area (Florida or its equivalent). An advanced analysis of the instructional methods, materials, curriculum, and research related to teaching secondary level social studies.

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## Table of Contents

## Graduate Courses

## Education and Human Services

## Course Descriptions:

## MUE5945: Graduate Internship in the Elementary School

Prerequisite: As prescribed on the student teaching application form: Bachelor's Degree. This course is a graduate internship experience which is organized around eight major objectives and the State of Florida's professional skills. Students must complete the requirements prescribed on the student's intern application form. This course is designed as a graduate level culminating experience in the student's major field of music and provides the student with an opportunity to practice skills under careful observation and in cooperation with a master teacher.

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## MUE6946: Graduate Internship in the Secondary School

Prerequisite: As prescribed on the student teaching application form: Bachelor's Degree. This course is a graduate internship experience which is organized around eight major objectives and the State of Florida's professional skills. Students must complete the requirements prescribed on the student's intern application form. This course is designed as a graduate level culminating experience in the student's major field of music and provides the student with an opportunity to practice skills under the careful observation and in cooperation with a master teacher.

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## Graduate Courses

## Leadership, School Counseling and Sport Management

## Course Descriptions:

## EDA6061: Introduction to Educational Leadership (School Leadership I)

Description: This course includes an investigation of educational leadership as a profession. Students review literature covering the roles and the contexts that elementary and secondary school leaders experience. Students begin a personal leadership portfolio. It is the required first course for persons seeking admission to the program in educational leadership.

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EDA6191: Team Leadership

Description: This class provides students with an introduction to developing high performance work teams, leading work teams, and improving organizational teamwork in schools and other learning organizations.

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## EDA6196: Leadership for Learning Organizations (Operational 3 Leadership II)

Description: Within this course, students will be introduced to the world of leadership through extensive investigations regarding major responsibilities of leaders. Students explore organizational behavior theories to provide a framework for making change within organizations.

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## EDA6199: International Perspectives of Educational Leadership

Description: This course provides students a study of educational leadership from international and cross-cultural perspectives. Students examine how educational leaders in different countries influence change, motivate teachers, develop learning communities, and practice instructional leadership that results in student achievement. Students are introduced to the Comparative Framework used to compare and contrast leadership from cross-cultural perspectives. Modes of presentation will include comparative analysis, case studies, and problem-based learning. The ultimate goal is to help students develop an international and cross-cultural understanding of schooling and the role educational leaders play in transcending ethnocentric and culturally specific ways of improving instruction and student learning. The practice of educational leadership will be examined in Australia, and in African, Asian, European, North American, South American, and Caribbean countries. Students will have the opportunity to pursue individual and group interests through special projects.

Description: This course provides students the opportunity to explore the role of the educational leader in building school and community relations, emphasizing the need to involve diverse community stakeholders in the development of effective schools. Emphasis is given to planning programs and marshalling resources to build both human and social capital in school communities. The applications addressed are interpreting policy, identifying needs, setting goals and objectives, planning programs, understanding school constituencies, and selecting appropriate communication tools.

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# EDA6232: Law and Ethics in Ed Leadership (Operational Leadership III) 

Prerequisite: EDA 6061
Description: This course involves the study of constitutional, statute, case laws and principles relating to the organization and operation of public education with particular emphasis upon the examination of legal principles involved in practical problems of school administration.

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# EDA6242: School Finance (Instructional Leadership III) 

Prerequisite: EDA 6061
Description: This course provides the student with an introduction to federal, state and local financial theories and practices. Students are also taught the skills in school-level budget planning, preparation, utilization and outlines the procedures for internal accounting and financial management.

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## EDA6271: Technology and Educational Leadership (Operational Leadership IV)

Description: The goal of this course is to provide students with knowledge, skills, and dispositions enabling them to use technology effectively as school leaders. The primary objective is demonstrating skills in the appropriate application of technology in the teaching and learning process and in the leadership, supervision, and administration of the school. The course emphasizes basic computer applications, issues in technology, and educational management systems.

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## EDA6302: Lifelong Learning and Professional Development

Description: This seminar is designed for those who plan to work with adults in various learning contexts including academic and career preparation, professional development, inservice training, and continuing education. Students will explore the psychological, sociological, and economic dimensions of adult learning in the American experience. Emphasis will be given to the application of theory to contemporary practice in the formal provision of educational activities for adults.

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Description: Students in this course will examine the wide variety of student personnel services including school safety, school discipline and management of exceptional student education programs available in public schools districts. A strong focus is placed on the nature and development of programs at the building and district levels of operation and discussion of current issues and trends.

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## EDA6910: Individual Study and Research <br> v. 0 -

Prerequisite: Consent of instructor
Description: This course is for students who wish to undertake an individual project related to administration and supervision.
Repeatability: This course may be repeated with change of content up to a maximum of 12 credits.

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## EDA6930: Grants Development and Project Design

Description: Students in this seminar will study all aspects of grants development, from the germination of ideas to preparing a competitive proposal. The topics include needs assessment, problem statement development, funding searches, literature review, methodology, performance objectives, evaluation design, and budget planning. There is emphasis on resource development for educators and human service professionals in a variety of settings.

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## EDA6931: Special Topics

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Prerequisite: Consent of instructor
Description: This course is for students who wish to undertake study of selected topics related to administration and supervision.
Repeatability: This course may be repeated with change of content up to a maximum of 9 credits.

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EDA6935: St: Applied Transformation of Conflict
Prerequisite: EDG 6403
Description: This course will be focused on broad-based education in multiple contexts. Learning will occur through academic, experiential and reflective engagement. Students will identify, examine, analyze and proactively respond to extant problems for applied practice prior to their own evaluation of their knowledge, skill and disposition development.

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EDA6945: Practicum in Educational Leadership
Prerequisite: EDA 6061, EDA 6215, EDG 6625, EDS 6130, EDA 6196, EDA 6232, EDA 6242
Description: This course is designed for students who are in the Educational Leadership
program for the master's degree. The selection of class section is made by the student and/or
faculty based on course and program needs and/or student's employment interests. The students will have a supervised experience in educational leadership (or in the principalship). The course requires a minimum of 40 hours of field experience per credit hour, completion of the leadership practicum project, and seminars related to the role and responsibilities of the educational leader.
Repeatability: This course may be repeated up to a total of 9 credits.
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## EDA7190: The Evolving Idea of the Educational Leader

Description: Students in this course examine the roles of educational leaders in history and the evolution of leader roles in society. This course uses research, theory, history, biography, and fiction to frame changing concepts of leaders and leadership. Enrollment is limited to students admitted to the doctoral program.

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EDA7192: Leadership: The Group/Team Context

Description: Students enrolled in this course focus on the interpersonal aspects of leadership and they will examine research principles and the practice of effective group/team dynamics. There is extensive attention given to group/team roles and functions, issues of group/team development, cohesion, communication, conflicts and conflict resolution. The enrollment is limited to students admitted to the doctoral program.

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## EDA7193: Educational Leadership IV: Leadership Change

Description: Change in schools will be analyzed using rational and nonrational frameworks. Factors affecting change at the federal, state and local levels will be identified. Students will develop a case study of an organization experiencing change. The enrollment is limited to students admitted to the doctoral program.

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## EDA7194: Seminar in Educational Policy

Description: Students enrolled in this course will examine the specific issues related to leadership and educational policy in a seminar format. The enrollment is limited to students admitted to the doctoral program.

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EDA7262: Educational Leadership III: Organizational Theory and Design

Description: The structure of educational organizations will be examined from an assessment and contingency design perspective. Contemporary school structures as well as alternatives for the future, including multicultural settings, will be considered. The role of the leader as design facilitator and innovator will be discussed. The enrollment is limited to students admitted to the doctoral program.

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Description: Students enrolled in this course will engage in a close examination of the major approaches to quantitative research in educational leadership. A critical analysis of their appropriateness and strengths in studying research questions in applied contexts will also be covered. The enrollment is limited to students admitted to the doctoral program.

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## EDA7410: Research in Educational Leadership:Qualitative Method

Description: The course includes a close examination of major approaches to qualitative research related to educational leadership and critical analysis of their appropriateness and strengths with regard to various research questions, with application to field situations and practitioner questions. The enrollment is limited to students admitted to the doctoral program.

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EDA7420: Foundations of Research in Educational Leadership

Description: The course is a study of approaches to problem identification and problem solving in education and a survey of research in educational leadership. Emphasis will be on quantitative and qualitative approaches to problem identification and problem solving in education. The enrollment is limited to students admitted to the doctoral program.

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EDA7421: Inquiry into Research in Educational Leadership

Description: This course is designed to develop analytical and technical skills in educational research appropriate to concurrent courses in the doctoral program in educational leadership.The enrollment is limited to students admitted to the doctoral program. Repeatability: This course may be repeated for a maximum of three credits.

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## EDA7905: Individual Study and Research <br> v. 1-

Prerequisite: Consent of instructor
Description: This course is designed for students who wish to undertake a study of selected topics related to educational leadership.
Repeatability: This course may be repeated with change of content up to a maximum of 12 credits.

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## EDA7945: Practicum: Leadership Assessment and Development

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Description: This practicum requires students to complete a variety of leadership assessment activities, to analyze assessment information, and to use assessment data to formulate a plan for continued leadership development. The enrollment is limited to students admitted to the
doctoral program.
Repeatability: This course may be repeated for up to 6 credits.
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## EDA7979: Research Seminar in Educational Leadership <br> v. 3-

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Description: The course includes advanced experiences in designing, conducting, reporting, and critiquing various phases of quantitative and qualitative educational research. The enrollment is limited to students admitted to the doctoral program.
Repeatability: This course may be repeated up to 12 credits.
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EDA7980: Doctoral Dissertation Research

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Description: Students must register for a minimum of 24 hours of dissertation credit before completion of the program and for a minimum of 3 hours of credit each semester once admitted to candidacy. The enrollment is limited to students enrolled in the doctoral program.

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EDF6114: Growth and Development of the Learner

Description: This course is designed to examine learner development from the perspective of both the school and the School Counselor. The course takes an in-depth look at theory, research and classroom applications in the areas of learner development, learner differences, the nature of the learner, learner motivation and the implications for the School Counselor. The course will also examine the classroom needs and learning strategies for learners with exceptionalities and learners from various cultural backgrounds.

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EDF6480: Foundations of Educational Research

Description: The purpose of this course is to provide students an introduction to understanding and interpreting qualitative and quantitative methods of educational research. Included is a review of the steps in planning, conducting, and reporting educational research, including a survey and analysis of types of research. Student work will emphasize research in the elementary school, the middle school, the secondary school, exceptional education, or adult education.

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## EDF6495: Research and Assessment in School Counseling

Description: This course provides an overview of the fundamental concepts related to designing, conducting, analyzing, and reporting educational research and assessment. It will include the study of standardized and projective instruments for testing of individuals in areas such as intelligence, aptitudes, personality and motivation and consider current issues in educational assessment.

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Description: The goal of this course is to provide every graduate in the College of Education with the basic information needed to understand the role of education in our American culture. The course is designed to provide students with the general knowledge that will enable them to deal with new ideas, events and challenges with which they will be confronted as educated professionals.

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## EDF7215: Psycho-Social Aspects of Learning and Instruction

Description: The course includes an overview and comparison of learning theories and instructional strategies. The course includes review of the effects of cultural and gender differences on the learning and instruction processes and the effects of the presence of an exceptionality on these processes. The enrollment is limited to students admitted to the doctoral program.

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## EDF7545: Philosophy of Education

Description: The course is an investigation into the basic assumptions and ideas of education, human nature, and human society, with emphasis upon the epistemological, ethical, and value dimensions of education. The enrollment is limited to students admitted to the doctoral program.

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EDF7635: Cultural and Social Foundations of Education

Description: Social and cultural forces affecting school practice are examined in the context of major theories of the sociology of education, concepts of multicultural education, and theories of leadership. Relations among educational policy, multicultural curriculum development, school achievement, and diverse lifestyles and learning styles are explored. The enrollment is limited to students admitted to the doctoral program.

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## EDG6285: Fundamentals of Program Evaluation

Description: This course provides basic knowledge and the opportunity to develop fundamental skills in the evaluation of education and human service programs. Emphasis is on the evaluator's responsibility for designing and implementing an evaluation, conducting data analysis, and reporting evaluation results. Emphasis is on the application of qualitative and quantitative methods for conducting an assessment of program implemental, outcome, and impact. Students also examine applications of evaluative research in educational decision making and policy development.

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## EDG6287: Principles of School Accountability and Assessment (Instructional Leadership II)

techniques in school-wide assessment. There is emphasis on understanding federal and state department of education information reporting requirements, reviewing and developing data collection procedures, and using assessment information for school improvement.

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EDG6403: Foundations of Conflict Transformation

Description: This course includes diverse approaches to conflict resolution as well as methods of understanding, managing and transforming different types of conflict. Students will identify, examine and proactively respond to extant conflicts.

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## EDG6625: Curriculum Leadership (School Leadership III)

Description: This course includes an in-depth study of current issues, trends, and research related to school curricula at the primary, elementary, middle school, or secondary school levels within regular or exceptional student programs. The goal of the course is to provide students an understanding of policies, practices, and procedures related to the development of the K-12 school curriculum.

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EDG6911: Action Research in Education

Description: The focus of this course is on the development of a systematic form of inquiry that is collective, collaborative, self-reflective, critical, and undertaken by the participants of the inquiry. The course provides the opportunity for teachers, counselors, and educational administrators to acquire skills in question development, data collection, data analysis, and the interpretation and presentation of results. Emphasis is on the classroom as a context for conducting research to: a) increase understanding, b) solve classroom problems, and c) contribute to the body of knowledge about teaching and learning. Students also examine applications of action research in educational decision-making and policy development.

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## EDH6069: Foundations of Higher Education

Description: This course provides a history of higher education through an overview of American and international institutions of higher learning, a survey of the philosophical missions and purposes served by colleges and universities, and an investigation of some of the pressing challenges and emerging practice issues confronting these institutions. This course presents an overview of higher education, with an emphasis upon the development of colleges and universities, and how these developments help shape and define current institutional practices and policies. A number of curricular, administrative, and policy issues will be examined and selected current problems will also be discussed in greater depth throughout the semester.

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education. This course will include questions of public support for higher education, expectation for learning outcomes, community and economic development, and implications for institutional governance. The course will address the process of creating and influencing higher education policy.

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## EDH6405: Higher Education Law

Description: This course is an overview of the legal issues that confront college and university personnel. Pertinent federal and state statutes as well as case law will be used to instruct about legal rights and responsibilities of university and college administrators. The legal relationships between the institution and the faculty, the student, the state government, and the federal government will be explored.

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## EDH6505: Higher Education Finance

Description: This course provides an overview of the economic and financial landscape of higher education. Aspects of higher education business management and principles will be covered including economic concepts that impact higher education, funding methods, budgeting, marketing, and personnel management functions. Influences and effects of current financial and economic issues on institutions of higher learning such as large public universities, small private colleges, community colleges, and adult education \& training programs will be discussed.

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## EDH6635: Organization and Leadership in Higher Education

Description: This course explores issues of organization, governance, and leadership practice in two and four-year colleges and universities. The diverse types of American institutions of higher learning are examined in the context of mission and purpose, programs and services, and the needs of both external and internal constituents. The roles of specific leaders are examined, giving attention to the current issues and challenges that each functional unit in an institution must face. This micro-view of leadership roles is framed by examination of the broader issues of mission, administration, governance, and responsiveness to social change that influence the evolving concept of higher education in American culture.

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## EDS6050: Instructional Leadership (Instructional Leadership IV)

Description: This course is designed to provide the student with an introduction to the theories, practices and processes for providing leadership of an instructional program and supervision and development of instructional personnel. Special attention is given to the process of mentoring, coaching, serving as a lead instructor, and using a clinical instructional development model. All students are required to complete an applied field-based project in which they work directly with an instructor as an instructional coach.

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> Description: This course includes a study of the theories, practices, processes and procedures which comprise the personnel and supervisory functions within educational organizations. Emphasis is placed on recruitment, selection, induction, assessment, development, and collective bargaining.

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## EME5403: Technology in Education

Description: The content in this survey course for teachers and administrators emphasizes technology as a personal and professional productivity tool. Students will use technology for communicating, solving problems, and participating in activities that encourage lifelong learning. Students are prepared as educators to use technology to support and enhance teaching and learning. The course content includes equitable, ethical, and legal issues in educational technology.

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## EME6046: Technology and Literacy

Description: This course is designed to introduce all teachers and future teachers to the concepts of how literacy (reading and writing) can be supported and developed with technology, incorporating computer technology beyond simple word processing in the teaching of writing. During this class you will have the opportunity to investigate, experiment with and use the following: eBooks, presentation software, the Internet, educational software, multimedia programs, and more. Course topics include the digital scaffolding tools, technology for accommodations, digital reading options, and electronic books in many forms.

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EME6050: Enhancing Instruction with Technology

Description: The focus of this course is on the development of concepts, strategies, and materials for the use of technology in the enhancement of instruction. Students explore the impact that computer technology can have on the nature of the teaching/learning process. Recent developments in education software, the Internet, and computers have provided educators with a new array of tools enriching the educational process. Topics include hardware, software, internet, technology and curriculum standards, and strategies for a range of content areas. This course explores the theoretical bases of critical issues in technologyenhanced learning.

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EME6052C: Technology, Education, and Culture

Description: This course is designed to help students form a comprehensive picture of the way information and communication technologies intersect with our belief systems, our way of life, and our relationship to the world. Challenges facing our schools, our social infrastructure and government agencies such as the National Archives and Library of Congress are discussed. The course examines the demands of a more complex, probabilistic view of the world and how probabilities, Bayesian Logic, and Fuzzy Algorithms intersect with human activity. Other concepts investigated include computer augmentation, collective intelligence and virtuality in our rapidly evolving technology-based culture.

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Description: Graduate students seeking a master's of Educational Leadership with a concentration in Educational Technology must develop an Educational Technology Portfolio to document mastery of all the major International Society for Technology in Education (ISTE) competency areas for educational technology leadership as part of the requirements for graduation. This portfolio should demonstrate the students' conscious reflection upon their learning, to help guide and expand their understanding. While the portfolio is an ongoing assignment throughout the program, during this course the educational leadership technology portfolio is to be submitted to the educational technology faculty advisor. This course is to be taken during the last semester of the program, when the student is planning on graduating.

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## EME6405: Educational Web Design

Prerequisite: EME 5403 or EDA 6271, or permission of the course instructor Description: Students in this course develop competencies in evaluating web pages for educational use, and in designing and producing effective web pages for school and classroom. Students will be prepared educators to create online content and tools for learning. Students develop their understanding of web design principles, multimedia, HTML, needs assessment, instructional design web publishing and usability testing.

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## EME6409: Interactive Distance Education

Prerequisite: EME 5403 or EDA 6271, or permission of course instructor Description: This course explores forms of synchronous and asynchronous interactive distance education from perspectives of theory and practice. Designed for K-12 and higher education instructors and administrators, as well as trainers and instructional designers from other professional settings, the course focuses on the interpretation and application of theory, research, and standards-based effective practices to the design, development, and evaluation of distance education experiences. Skills and knowledge acquired in the course will contribute to distance and classroom teaching capabilities.

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## EME6418: Educational Multimedia

Prerequisite: EME 5403 or EDA 6271, or permission of the course instructor Description: The content of this course focuses on the design, development, and implementation of interactive media in instructional settings. Topics include: instructional design, input and output devices, optical technologies, hypermedia with sound and video, communicating with multimedia products, and the future of technology in education.

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## EME6441: Technologies for Special Populations

Prerequisite: Computer Experience
Description: The students will develop an understanding of assistive technology, accommodations, technology applications and adaptations to improve functionality of learners of all abilities, including ESE and ESOL.

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> Description: This course focuses on the application of instructional design principles to the development of instruction. Topics include contemporary issues and trends in instructional design, foundations in learning research, requirements for instruction, task and needs analysis, learning situations and instructional model, learners characteristics, hardware and software innovations, assessing instructional outcomes, and factors affecting utilization.

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## EME6628: Educational Technology Systems

Prerequisite: Computer Experience
Description: Students in this course develop an understanding of educational technology hardware and network systems, including budgeting, purchase, setup, maintenance, upgrade, management and effective use in the school setting.

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## EME7415: Educational Design for Digital Media

Prerequisite: EME 6418 and consent of instructor
Description: This course focuses on the study and application of instructional design principles to the development of multimedia materials. It emphasizes the application of learning principles to multimedia design and production. Students will design and develop a multimedia project using a variety of visual and auditory elements.

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## MHS5005: Introduction to Guidance

Description: This course is designed as an introductory course for students wishing to pursue a career as a school counselor. It will focus on the roles and expectations of counselors at different levels, as well as an introduction to the skills of counseling, consulting, and career education.

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## MHS6201: Assessment in Counseling

Prerequisite: Introduction to Statistics or equivalent
Description: The course includes the study of standardized and projective instruments for testing of individuals in areas such as intelligence, attitudes, personality and motivation.

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MHS6407: Theories of Counseling

Description: This course provides counselors in school and mental health settings with knowledge of personality and counseling theories. The role of theory in the counseling of children, youth, and adults will be emphasized.

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MHS6421: Counseling Children and Adolescents
Prerequisite: MHS 6482, MHS 6006, MHS 6400
Description: This course concerns the helping relationship between the counselor, children and adolescents. Emphasis is placed on the application of theoretical models and specific techniques required to counsel children and adolescents in both school and mental health settings.

## MHS6482: Personality and Life Span Development

Description: This course provides students with knowledge of personality and human development theories and research throughout the lifespan. Dynamics of personality and behavior, as well as their implications for counseling at each developmental stage will be presented.

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## MHS6530: Group Work for School Counseling

Description: This course provides theoretical and experiential understandings of group types, purpose, development, dynamics, theories, methods, skills, and group approaches in educational settings.

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## MHS6539: Classroom Management Skills

Description: This course is designed to prepare the School Counselor to manage the classroom during classroom guidance presentations and to strengthen their consultation role by helping them understand classroom structure and ways of helping teachers connect most effectively with learners. Strategies for managing students from various cultural backgrounds, the classroom environment and instructional activities which promote cognitive growth will be explored.

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## MHS6600: Seminar: Consultation Skills

Description: This course is an examination of consultation models appropriate to education and human services. This course develops basic skills in consultation with parents, teachers and other professionals.

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## MHS6610: Clinical Supervision in Counseling

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Prerequisite: MHS 6006, MHS 6400 and MHS 6510
Co-requisite: MHS 6830
Description: This course is designed for advanced graduate students and practicing counseling professionals. The course focuses on models and techniques of clinical supervision, as well as issues in supervision and evaluative methods. Students will study various approaches to supervision, practice with supervisees in a field experience, and create a supervision guide book.

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## MHS6780: Legal, Ethical, and Professional Issues in School Counseling

Description: Students in this course will survey ethical, legal, and professional issues facing
> the school counselor. School counselors function in an environment regulated by state and federal laws, court decisions, certification, cultural diversity issues and school board rules. Using case studies, students will explore and demystify some of the legal complexities through an exploration of American Counseling Association Code of Ethics and Standard of Practice, federal law, case law, state statutes, multi-cultural community standards and school board rules. Students will learn how these assist in the protection of students, parents and the school counselor. Students will host a conference and present their research projects from EDF 6480 at this conference.

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SDS5429: Equity Methods and Resources

Description: This course is designed for the study of educational equity with emphasis on the identification of methods and resources to facilitate the progress of special student populations. Practical applications for classroom teachers, educational administrators and counselors are stressed.

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## SDS5601: Home-School Communication

Description: This course explores the past, present, and future of home-school relationships. Student will learn strategies for working with parents that have special needs (single parents, foster parents, etc.), including the methodology of communication skills, parent involvement, conferencing skills, parent education, and parent counseling.

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## SDS6000: School and Family: Managing Student Behavior

Prerequisite: Admission to the SOAR program or permission of the instructor Description: This course is designed to enhance the relationship between families/care givers and the school for the purpose of optimizing student behavior for classroom learning. It will give the students tools to use when working with families. In addition, students will learn effective ways to include family members as active contributors in their child's education and overall well being. Students will learn how to create collaborative teams that will include school personnel, families and other community agencies to promote student learning. The school counselor's role will be explored in managing classroom behavior when conducting classroom guidance and in helping teachers with strategies for managing students from various cultural backgrounds. The classroom environment and instructional activities that promote cognitive growth will be examined. This course will look at profiles and characteristics of students presenting potential and active behavior problems. Strategies for preventing and handling ongoing behavioral problems are examined.

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## SDS6014: Organization and Administration of School

 CounselingDescription: This course includes a study of the various components in a comprehensive, developmental school counseling program, including an understanding of professional roles and functions, historical underpinnings and future trends, accountability and professional organizations, associations and credentialing.

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Prerequisite: Introduction to statistics or equivalent
Description: This course is an advanced study of standardized tests used in schools, including achievement, aptitude, intelligence, interest, motivation and structured interview instruments. The course content includes principles of measurement, rationale for test selection, guidelines for administration and the use of appraisal data for decision-making.

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## SDS6310: Career and Lifestyle Development

Description: This course is designed to enable counselors to help individuals assess their skills, knowledge and self-understanding necessary to arrive at appropriate career, educational, and lifestyle decisions throughout the life span. Both theory and practice are emphasized.

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## SDS6466: Crisis/Disaster Management


#### Abstract

Description: This course is designed to explore student behavior that results in violent and aggressive actions. The development of violent tendencies is examined, including the medical/biological, psychological and social theories of aggression and violence. Candidates explore the current approaches to intervention with at-risk students, and discuss prevention strategies that can be implemented in regular, special education and inclusion classes in order to minimize the risk of violence. The legal issues involved are presented to help candidates understand the role of school personnel in minimizing risk to students and staff, and also intervening with those students in regular, special education and inclusion classes who are atrisk for violent and aggressive behavior. As part of the curriculum, each participant will develop a Crisis Intervention and Prevention Plan as a potential model that can be implemented within a school district/building.


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SDS6640: Leadership of Student Affairs

Description: This course is an exploration of leadership on college campuses. As such, it begins by examining conceptual and theoretical concepts and constructs of leadership as well as how student affairs personnel, higher education administrators, and students have developed and enacted notions of leadership. Thus, students will have opportunities to apply what they are learning within authentic leadership contexts. Leadership is viewed through multiple lenses: as an art (especially a performing art), a philosophy, a social science, a lifestyle, and a social contract. Emphasis is given to manifestations of leadership in the higher education setting, which by nature will draw on business, political, sociological, and psychological constructs and approaches. The course is focused in scope on institutional-level leadership within university and college systems.

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## SDS6645: Student Development in Higher Education

Description: The purpose of this course is to examine a diverse range of perspectives including human development theories that provide context and insight into student learning, growth, and development during their post-secondary experiences. This class will develop understanding related to how these perspectives and theories might inform the policies, practices, and programs within post-secondary institutions and student affairs, specifically.

Description: This course is designed to provide an overview of: a) the philosophical and historical foundations of student affairs programs and the student affairs profession; b) the culture and socio-political landscape of post-secondary institutions where the profession is practiced; c) professional development opportunities, resources, and organizations in the profession; and, d) the knowledge, skills, dispositions, and practices needed to be a successful student affairs practitioner.

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## SDS6700: Diversity in Higher Education

Description: This course is designed to prepare effective, culturally competent higher education leaders through self-examination and discussions about the cultural beliefs, norms, behaviors and policies that impact diversity within higher education. Guided by the premise that our cultural lenses shape how we view and solve educational challenges related to diversity and multiculturalism in higher education, this course will use personal reflections and relevant research to facilitate the understanding and knowledge of the structures, policies, and trends related to diversity in higher education.

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## SDS6820: Supervised Field Experiences I

Co-requisite: SDS 6940
Description: This course is designed to provide school counseling candidates ongoing guidance, support, and instruction pertaining to the roles, functions, and skills of a school counselor during their first field experience. Emphasis will be on student-focused and systemfocused issues that the school counseling candidates address during field experience. Candidates will meet for one hour per week with a professional school counseling supervisor.

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## SDS6821: Supervised Field Experiences II

Co-requisite: SDS 6832
Description: This course is designed to provide school counseling candidates ongoing guidance, support, and instruction pertaining to the roles, functions, and skills of a school counselor during the second field experience. Emphasis will be on career, postsecondary planning, and academic issues that the school counseling candidates address during field experience. Candidates will meet for one hour per week with a professional school counseling supervisor.

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Description: This internship experience offers students an in-depth supervised experience in schools practicing individual and group counseling.

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Description: Students who participate in this course are provided an in-depth supervised experience in schools practicing management of resources and data analysis.

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## SDS6832: Internship in School Counseling: Career Advising/Appraisal/Advocacy

Description: This internship offers students an in-depth supervised experience practicing career and academic advising and advocacy in schools and businesses.

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## SDS6905: Directed Independent Study

v. 1-

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Description: This course is offered for variable hours and title.
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## SDS6940: Practicum in School Counseling

Prerequisite: MHS 6006, MHS 6400, MHS 6510, and SDS 6014 with grades of B or higher, and permission of the practicum committee
Description: This course is designed to apply knowledge and skills gained in study to actual school settings. Corresponding course work will be required in which the emphasis will be on the counselor as a consultant to parents, teachers, and administrators.
Repeatability: It may be repeated for credit
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SPB6946: Practicum in Athletic Administration

Description: The primary purpose of the course Practicum in Athletic Administration, is to link the theoretical and philosophical frameworks of athletic administration to practice in the field. The course requires students to perform in field settings as an assistant to a sport organizational leader.

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## SPM5206: Ethics and Issues in Sport

Prerequisite: SPM 6008
Co-requisite: SPM 6008
Description: The purpose of this course is to promote critical evaluation of contemporary issues impacting the sport industry, as well as to encourage deeper thinking in regards to analyzing ethical concepts and applications associated with sport, and personal application. Through detailed examination of oneâ $€^{\text {TM }}$ s philosophy, clarifying values and refining personal, social, and ethical reasoning as associated with contemporary issues of interest, this course addresses matters within sport settings that may affect sport stakeholders and society.

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Description: This course was designed to provide students an in-depth examination of the sport marketing mix of product, price, place, promotion, and well as sport marketing strategy and sport marketing research. Students will engage in advanced work in sport marketing and consumer behavior to develop a more rich understanding of how sport organizations generate revenue through sport marketing strategy and research. Students will apply fundamental sport marketing concepts through clinical experiences in the sport industry.

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SPM5506: Sport Finance
Prerequisite: SPM 6008
Co-requisite: SPM 6008
Description: This course is designed to provide students information concerning financial matters and business issues relating to the sport industry. Of particular importance is acquiring an awareness and understanding of basic financial responsibilities of sport administrators, managers, and coaches. The information presented should enable the student to develop a working vocabulary of significant financial terms along with financial concepts and issues that have particular reference to sport, the management of sport programs, and the sport industry.

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## SPM5605: Sport Governance and Compliance

Prerequisite: SPM 6008
Co-requisite: SPM 6008
Description: This course is designed to provide students practical applications of governance principles to amateur and professional sport organizations operating at the community, state/provincial, national, and international levels. The course presents a balanced view between accepted practice and what contemporary research evidence tells us about a range of governance principles and practices. The course will provide students an understanding of the mechanics of governance $\hat{a} \epsilon^{\prime \prime}$ the elements of structure, process and performance that ensure the governance function is carried out within sport organizations. There will be in-depth discussion of a number of contextual issues in sport governance, including dual leadership, ethics, governance change, and future governance challenges.

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## SPM6008: Foundations of Sport Management

Description: This course is designed to provide students, who do not have an undergraduate degree in sport management, with an overview of sport management. Students will be exposed to the foundations of the following components of sport management: sociocultural aspects in sport, management and leadership in sport, marketing in sport management, ethics in sport management, communication in sport management, budget and finance in sport management, legal aspects of sport management, and economic aspects of sport management, and governance of sport. Students will gain an appreciation of the importance of field experiences in sport management.

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Prerequisite: SPM 6008
Co-requisite: SPM 6008
Description: This course provides students a comprehensive knowledge base of sport facility and human resource management. Students will develop an understanding of proper facility
planning, construction and utilization, risk management, event administration, house and grounds management, systems management, marketing, finance and personnel issues related to sport facility management. Contemporary issues in sport facility management will be examined as well as the growing responsibilities and risks assumed by those working in sport management. Case study analysis and sport facility visits will be important teaching methodologies for this course.

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## Graduate Courses

## Exceptional, Deaf and Interpreter Education

## Course Descriptions:

## ASL6215: Advanced American Sign Language Conversational Skills

Prerequisites: SPA 6625 and SPA 4615. Advanced Conversation Skills in ASL is designed to continue development of conversational skills in American Sign Language. Students will use the vocabulary and the skills that they learned in ASL-IV as support to communicate with Deaf and to refine the grammatical and linguistic structure of ASL. This course is also a preparatory course for internship the following semester. The content of the course will focus on two parts: conversation with Deaf and culture of the Deaf. The course requires a mandatory field experience at the Florida School for the Deaf and Blind. Course may be repeated for credit.

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## ASL6415: Sign Communication for the Classroom

Prerequisite: SPA 4615. This course focuses on the educational application of the principles of sign communication within the framework of a total communication philosophy. Procedures and strategies for effective communication in the educational setting are discussed. Feedback on communicative effectiveness is provided. Field experience required.

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## EBD6015: Nature and Needs of Learners with Emotional <br> Handicaps

Prerequisite: EEX 3202. This course addresses the etiology, characteristics, and educational needs of learners who are emotionally handicapped or seriously emotionally disturbed. Attention is given to prevention, intervention models, and available community resources. Field experience is required.

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## EBD6221: Behavior Management of Learners with Emotional Handicaps

Prerequisite: EEX 3202 and EEX 4604. This course addresses behavior management techniques designed for students with emotional handicaps. The emphasis is on the application of theories, prevention, crisis intervention, legal considerations, and counseling skills. Field experience is required.

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## EBD6235: Curriculum for Students with Emotional Handicaps

Prerequisite: EBD 3011. Curriculum, methods and media appropriate for students with emotional handicaps. Academic and social skills curricula will be addressed.

Prerequisite: EEX 3202. This course examines appropriate academic and prosocial strategies for teaching students with emotional handicaps, including motivational strategies, data-based management, and the implementation of Individual Education Plans (IEP's). Field experience is required.

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## EEX5053: Foundations of Special Education

In consonance with the conceptual framework of the COEHS, this course will be focused on the acquisition of knowledge and skills for advanced study in the psychology and sociology of exceptional learners. The course examines exceptional learners in terms of cognitive, affective and psychomotor characteristics and their functioning within families, schools and society.

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## EEX5095: Nature and Needs of Students with Autism

The course is an examination of the psychological, physiological, social, and educational characteristics of individuals who have been identified as having autism, pervasive developmental disorder, Rett's disorder, Asperger's syndrome and childhood disintegrative disorder. Focus on causes, prevalence, diagnosis and intervention will also be included. Students will encounter conceptual readings, manuals, handouts, and research articles evaluating the utility of various methods being discussed.

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EEX5297: Development and Assessment of Students with

## Autism

This course will focus on diagnostic frameworks, instruments and tests, which form the basis of diagnosing children with autism spectrum disorders. The diagnostic process in older adolescents and adults will also be covered. The use of assessment in program planning will be covered through both discipline specific and transdisciplinary procedures. The research behind the development of instruments specific to autism will be discussed.

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## EEX5485: Math and Science for Learners with Exceptionalities

Prerequisite: EEX 5053 This course is designed to give students the opportunity to learn about pedagogy and curriculum for teaching math and science to learners with exceptionalities. Students will be introduced to instructional skills in the areas of assessment, planning, implementation, and evaluation as they relate to teaching math and science. In addition, students will be able to practice many of the technical skills needed to prepare instructional materials for the classroom.

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## EEX5612: Principles of Applied Behavior Analysis I

This course that will enable the learner to meet the minimum requirement specific to the Behavior Analyst Certification Board (BACB) guidelines. The content will include: (1) ethical considerations; (2) definition and characteristics; (3) principles, processes, and concepts; (4) behavioral assessment; (5) experimental evaluation; and (6) measurement of behavior.

Prerequisite: EEX 5612 This course examines the use of the scientific method to evaluate assessment and intervention techniques in behavior analysis. Topics include measurement techniques, single-subject experimental design, selection of dependent and independent variables, graphical presentation and evaluation of results, ethics pertaining to human subjects and treatment implementation, and ways of communicating research results. Principles and procedures involved in the experimental analysis of reinforcement schedules, stimulus control, and stimulus equivalence are included

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## EEX5619: ABA in Dev Disabilities and Autism

Prerequisites: EEX 5612, EEX 5617 The course is designed to familiarize students with the behavior-analytic research on the treatment of individuals with developmental disabilities, including autism. The course will provide an overview of common developmental disabilities and the characteristics of autism. The primary focus of the course will be on assessment and intervention procedures and specific behavior analytic teaching methods for use with individuals with developmental disabilities. Students will encounter conceptual readings, manuals, handouts, and research articles evaluating the utility of various methods being discussed. Students are expected to participate fully in class discussions, drawing from the assigned weekly readings and relevant social and professional experiences.

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## EEX5665: Classroom Management for Learners with

## Exceptionalities

Prerequisite: EEX 5053 The course will be focused on the acquisition of knowledge and skills in classroom management and applying such knowledge and skills to learners with exceptionalities. Students are expected to participate fully in class discussions, drawing from the assigned weekly readings and relevant social and professional experiences.

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## EEX5767: Assistive and Instructional Tech for Students with

This course is an overview of assistive/adaptive and instructional techology for children with autism and other developmental disabilities. Instructional Technology (IT) can be used by special educators to facilitate the delivery of instruction while Assistive/Adaptive Technology (AT) can be used to help students with autism spectrum disorders to function more independently in the classroom and beyond. The primary goal of this course is to familiarize students with existing technology (IT and AT) and the benefits it offers to individuals with various types of disabilities. A second goal is to teach students methods for evaluating the technology needs of individuals with disabilities and how to appropriately match individuals to appropriate technology. A third goal is for students to learn how to find and evaluate new technology using the internet and other resources. A final goal is for students to learn about federal and state legislation that is relevant to technology and ways to secure resources to fund technology in the classroom.

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EEX6025: Issues and Trends in Special Education
PREREQS: EEX 3202, EEX 4604, EEX 5053. This course is designed for advanced special education majors and allows for an in-depth study of specific controversial topics concerning exceptional students.

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# EEX6052: Curriculum and Instruction for Learners with Exceptionalities 

Prerequisite: EEX 3202. This course addresses the nature and needs of students with emotional handicaps, specific learning disabilities and mental handicaps. Also considered are the development of Individual Education Plans (IEP's) and the adaptation of curriculum and materials to meet the need of these students with varying exceptionalities. Field experience is required.

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## EEX6063: Preschool Programming for the Exceptional Child

This course is designed to teach the development and implementation of individualized instruction for the preschool handicapped child, birth through five years of age, with emphasis on developmentally appropriate curricula, methods, and techniques.

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## EEX6203: Developmental Variations

This course addresses comparative child growth and development related to the learning and functioning of exceptional children. Interaction of medical, nutritional, and pharmaceutical interventions is a focus, as well as psycho-educational analysis of learning and development.

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## EEX6225: Special Education Generic Competencies: Laboratory in Evaluation

 3An extension of the student's evaluation skills to include attention to specialized tests in specific disability areas. Emphasis will be placed on translating test results into educational practice as well as stressing the skills necessary for evaluating ongoing programs.

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## EEX6234: Teaching Students with Moderate and Severe Disabilities

Prerequisite: EEX 3202, EEX 5053. This course focuses on instructional assessment and practices for teaching students with moderate and severe disabilities. The course includes a survey of the instructional knowledge-base assessment, curriculum, methods, and procedures along with a series of workshop style training sessions and structured field experiences.

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## EEX6239: Preschool Assessment of Exceptional Child

Prerequisite: EEX 6203. This course addresses both the formal and informal assessment of preschool handicapped children, birth through five years of age, with emphasis on developmentally appropriate evaluation materials and techniques. Field experience required.

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## EEX6256: Language Arts for the Learning Impaired Student

Prerequisite: Certification in one area of special education. Advanced study in the diagnosis and remediation of disabilities of written language, spelling, reading, and handwriting. Course will focus on learning impaired individuals from kindergarten through college. Field experience

## EEX6259: Literacy Strategies for Students with Mild Disabilities

Prerequisite: EEX 3202, EEX 5053. The course provides specialized instructional strategies for teaching basic literacy skills to students with learning disabilities and other literacy challenges. The focus is on adolescents who have difficulty understanding academic content areas through reading, writing, problem solving and independent studying. Field experience required. A collaborative interaction between general and special education teachers is an integrated theme throughout the course.

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## EEX6283: Social, Personal, and Career Skills for Exceptional Students

A course on teaching social and personal skills for exceptional students with emphasis on employability skills, career awareness, and transition planning for adult living.

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EEX6301: Research in Special Education v. 1-

A course designed to allow advanced students to analyze, interpret, and apply research findings in the classroom setting. May be repeated up to 12 credits.

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## EEX6402: Communication, Collaboration, and Consultation Skills for Special Education

This course will be focused on the acquisition of knowledge and skills in communication, collaboration, and consultation and applying such knowledge and skills to interactions special educators have with general educators, administrators, parents, agency personnel and other stakeholders in the lives of individuals with disabilities. EEX 6402 includes the examination of specific techniques, related media, and experiences designed to equip special education teachers with skills to collaborate with school and community professionals and families to provide a necessary range of services to students.

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## EEX6602: Behavior Management of the Maladaptive and Disruptive Child

Prerequisite: Basic Course in Behavior Modification. Specialized methods and strategies for dealing with defiant, aggressive, hyperactive, attention disordered and socially maladjusted students. Emphasis will be placed on applying proven research strategies to students with behavior problems.

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## EEX6615: Intervention Techniques for Dealing with the Verbally and Physically Agressive Individual

Prerequisite: Basic Course in Behavior Modification. An introduction to methods and techniques for managing children and adults who are verbally and physically aggressive. Special emphasis will be placed on prevention of aggression through verbal intervention
techniques.
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## EEX6625: Applied Behavior Analysis in Ed. and Performance Management

A course on educational management of exceptional students with emphasis on classroom organization, behavior management and consultation skills.

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## EEX6732: Facilitation of Parent Interaction

A course on families of handicapped students and the relationship between the family and the educational professional. Emphasis is placed on family systems theory, community resources, case management, and transition.

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## EEX6841: Practicum in Special Education

v. 3-

Prerequisite: Permission of program faculty.
Description: For students using this course for an internship, permission of faculty requires the recommendation of three full time faculty members in the Special Education Program.
Supervised field experience in specific disability areas.
Repeatability: May be repeated up to 24 credits.
Course Fees: \$36
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## EEX6911: Independent Study and Research <br> v. 1-

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Prerequisite: Permission required. Supervised readings and utilization of current research findings in special education. May be repeated up to 12 credits.

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## EEX6926: Advanced Study in Special Curriculum for the Exceptional Student

Prerequisite: Permission of instructor. Practical aspects of teaching offered through workshop format or in-service arrangement. Focus on latest trends in curriculum, methods, and media in special education. May be repeated up to 9 credits.

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## EEX6936: Advanced Seminar: Current Topics in Special Education

 v. 1-A seminar designed for advanced special education students that allows for an in-depth study of specific topics in mental retardation, learning disabilities, and emotional disturbances. May be repeated up to 36 credits.

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An introduction to the characteristics and unique educational needs of the gifted. Philosophical considerations, historical perspectives, types of giftedness, incidence, identification and evaluation procedures will be explored. Field experience required.

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EGI6231: Curriculum and Programming for the Gifted
Prerequisite: EGI 6051 or permission of instructor. A seminar designed to explore curriculum models, adjustments and specific instructional strategies necessary for teaching the gifted. Alternative prototypes and models of program development will be examined. Field experience required.

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## EGI6246: Educating Special Populations of the Gifted

Prerequisite: EGI 6051. This course focuses on characteristics, assessment, and programmatic considerations for specific populations of gifted students. Underachievers, minority, handicapped, and preschool gifted are included.

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## EGI6305: Theory and Development of Creativity

A course designed with emphasis on elements of creativity such as fluency, flexibility, originality, and elaboration. Special attention will be given to the development of the participants' resources in this area as well as techniques for unlocking potential of others.

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## EGI6415: Counseling for the Education of the Gifted

Prerequisite: EGI 6051 or permission of instructor. Specialized techniques to meet the unique guidance and counseling needs of the gifted. Consideration will be given to the following: child study techniques, career education, parent counseling, underachievement and concomitant handicapping conditions.

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## EHD5315: Psychology and Education of the Deaf and Hard of Hearing

This course will address the complex issues and practices that serve as the foundation of working with students who are deaf or hard of hearing. Specifically, it will provide an introduction to the nature and needs of students who are deaf or hard of hearing with attention to identification, characteristics, assessment and intervention. This course includes field experience.

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## EHD5341: Curriculum and Instruction for the Deaf or Hard of Hearing

Prerequisite: EHD 4311 or permission of the instructor. This course provides an analysis of curricula appropriate for students who are deaf or hard of hearing at all educational levels. The development, adaptation, and use of curriculum materials and instructional procedures will be addressed as well as lesson and unit planning. The development and implementation of individual educational plans will also be addressed. Field experience is required.

This course is a methods course that focuses on the instruction of language arts to students who are deaf or hard of hearing. Field experience required.

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## EHD6242: Teaching Speech to the Hearing Impaired Child

Theoretical and practical aspects in teaching speech to children with hearing impairments.
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## EHD6281: Teaching Speech Practicum

Prerequisite: EEX 4101, EHD 4311, EHD 4261, EHD 6241. Corequisite: EHD 6242. This practicum course will provide students in the Deaf Education program opportunity to work with students who are deaf or hard of hearing in developing speech reading and auditory comprehension skills. Field experience is required.

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EHD6343: Reading Instruction for the Deaf or Hard of Hearing
Prerequisite: EHD 6241. This course is a methods course that focuses on the instruction of reading to students who are deaf or hard of hearing. Field experience required.

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> EHD6361: Math/Science/Social Studies Instruction for the Deaf Prerequisite: EHD 5341. In this course, students will learn about curriculum trends, teaching techniques, and appropriate media for teaching math, science, social studies to students who are deaf or hard of hearing. Students will learn about current curricula in use with these students. Field experience required.

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## ELD6015: Foundations of Learning Disabilities

Prerequisite: EEX 3202. This course surveys the factors related to the education of students with learning disabilities. Considered are historical developments, causation, research, and theories in specific learning disabilities, including characteristics, classification of students, and appropriate educational services. Field experience is required.

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## ELD6141: Advanced Literacy Strategies:Learning Disabilities

Prerequisite: EEX 3202. This course provides specialized instructional strategies for teaching basic literacy skills to students with learning disabilities and other literacy challenges. The focus is on adolescents who have difficulty understanding academic content areas through reading, writing, problem solving and independent studying. Field experience is required.

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## ELD6236: Curriculum and Programming for the Learning

with learning disabilities. Adaptation of curriculum materials and instructional procedures will be addressed.

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## EMR6012: Foundations of Mental Retardation

Prerequisite: EEX 3202. This course addresses the nature and needs of students who are mentally handicapped. Historical developments, causation, prevention, medical aspects, classification, and appropriate educational services are considered. Field experience is required.

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## EMR6256: Advanced Functional Literacy Strategies:Mental Retardation

Prerequisite: EEX 3202. This course provides functional literacy strategies for teaching students with mental retardation and other learning challenges which preclude high school graduation with a regular diploma. Attention is given to teaching functional literacy and life skills, developmental programming, implementation and evaluation of individual education plans (IEP's), and data-based management. Field experience is required.

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## EMR6335: Curriculum, Methods, and Materials for Students Who are Mentally Handicapped

Prerequisite: EMR 3011 or equivalent. This course covers the specialized curriculum, methods, and materials that teachers use with students who are mentally handicapped. The course includes advanced study of effective practices and recognition of trends and standards in the profession.

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## INT5275: Interpreting Process and Skill Development II

This is the first in a series of three courses designed to develop a deeper understanding of the interpreting process and the development of advanced competencies in interpretation and transliteration. The course utilizes interactive discussions, small group practice, and hands-on learning activities to further application of interpretation theory. Emphasis is placed on consecutive interpreting on the topics of mental health and medical settings.

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## INT5457: Interpreting for Diverse Populations

This course will explore interpreting for diverse populations including individuals who are DeafBlind, individuals with minimal language skills, individuals with multiple disabilities, and individuals from diverse racial, ethnic, cultural, economic, religious, and social backgrounds. Students will identify the role and function of interpreters when working with these populations and assimilate methods for applying cultural and linguistic competence to a variety of settings. No new faculty or additional resources are required for this course.

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## INT5954: Service Learning for Interpreters

This course is designed to strengthen the student's ability to acculturate to the rich linguistic and cultural characteristics of the Deaf Community through civic engagement. Students will participate in structured experiential settings that are located by their investigation of
community needs. The course will target three areas of service learning: Deaf Community, Interpreter Community, and Deaf children. Students will design a service-learning project that is responsive to community need and adequately reflected upon through journaling and faculty mentorship. Course can be repeated up to a total of 4 hours credit.

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## INT6207: Interpreter Training

Prerequisite: EHD 4311 or equivalent and permission of instructor. Develop knowledge and skill in the role, function and responsibilities of interpreting for deaf people. May be repeated up to 6 credits.

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## INT6276: Advanced Interpreting Process and Skill Development

Prerequisite: INT 5275 This is the second in a series of three courses designed to develop advanced linguistic and bicultural competence in interpretation and transliteration with individuals along the continuum from Signed English to ASL. The course utilizes interactive discussions, small group practice, and hands-on learning activities to further application of interpretation theory. Emphasis is placed on simultaneous interpreting in a variety of settings.

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INT6277: Advanced Interpreting Process and Skill Development

Prerequisite: INT 6276 This is the third in a series of three courses designed to develop a advanced competencies in interpretation and transliteration in highly specialized and complex settings. The course utilizes interactive discussions, small group practice, and hands-on learning activities to further application of interpretation theory. Emphasis is placed on interpreting in legal and other high-risk settings.

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## INT6911: Applied Research in Interpretation

Prerequisites: EDF 6480 Foundations of Educational Research This course introduces students to current research in the field of spoken and signed language interpretation and to conceptualizing research projects in related topic areas of personal interest. Students are initially exposed to human subject review procedures at the university and will undergo the necessary training and certification to proceed with research design. Subsequently, students are mentored through topic investigation, problem identification, research design, literature review, instrument construction, data collection, analysis, manuscript preparation, and dissemination. The goal of the course is to demonstrate to students the process and the value of active research in one's pursuit of excellence as an interpreter.

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## INT6932: Special Topics in Interpretation

Prerequisite: Consent of instructor. Selected topics will address current needs in interpretation and transliteration studies including interpreting in settings with persons who have minimal language skills, managing vicarious trauma, and interpreting in critical legal settings.

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Prerequisites: INT 6911, INT 6932, INT 6276, INT 6277, INT 5275, SPA 6619, TSL 6525, INT 5954, INT 5457, EHD 5315 This course is field-based and requires supervised, mentored experiences in the field as an interpreter. Through this internship, students have ongoing opportunities to apply classroom learning and theory with real-world interpreting. The course requires 200 hours of field-based experience.

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Major: Nursing<br>Concentration: Nursing-RN<br>Degree: BS in Nursing

Prerequisites (27 credits)
Attention Regular \& Accelerated Prelicensure BSN applicants ONLY: In progress enrollment does not constitute completion/meeting your prerequisite requirements. You must successfully complete all required coursework to remain a viable School of Nursing applicant. You must maintain 2.90 or higher cumulative and prerequisite GPAs for consideration at the time of the application deadline. At least 5 of the 8 nursing-specific prerequisite courses, including no less than 3 of the 4 required science courses (MCB, A\&P I w/lab, A\&P II w/lab, \& Additional Science), must be completed by the application deadline. Proof of enrollment in all remaining courses must be supplied to the School of Nursing Admissions Office by the deadline.

SELECT One social science course
Any PSYXXXX, SOPXXXX, or SYGXXXX is acceptable.
**PSY2012 is a required prerequisite to DEP3054 at UNF.
DEP3054 Lifespan Developmental Psych (3 Credits)
DEPX004, DEPX054, DEPX000, DEPX414, or any Human Growth and Development across the Life Span may be substituted for DEP3054.

## STA2014 (GM)Elem Statistics-Health/SS (3 Credits)

STAX014, STAX023, STAX122, STAX022, or any Statistic course maybe be substituted for STA 2014.
HUN2201 Basic Prin Human Nutrition (3 Credits)
HUNX201, NURX192 or any Human Nutrition course may be substituted for HUN 2201.

MCB2010C Microbiology (4 Credits)
MCBX010C, MCBX010/X010L, MCBX013c, MCBX013/X013L, MCBX000/X000L, MCBX004/X004L, or any Microbiology with lab may be substituted for MCB 2010C.
**If taking MCB course at UNF, BSC1010c and CHM2045/2045L are required prerequisites.
BSC2085C Human Anatomy and Physiology I (4 Credits)
BSCX085c, BSCX085/X085L, BSCX093c, BSCX093/X093L, or any Human Anatomy and Physiology I or Human Anatomy.
BSC2086C Human Anatomy \& Physiology II (4 Credits)
BSCX086c, BSCX086/X086L, BSCX094c, BSCX094/X094L, or any Human Anatomy and Physiology II or Human Physiology.
SELECT Additional science course
Any CHMXXXX, BCHXXXX, BSCXXXX, PCBXXXX, or PHYXXXX with a minimum of 3 credit hours is acceptable.

Major Requirements ( 30 credits)
Must be completed with a grade of " C " or higher

- An academic advisor will review contents of the Curriculum Transition Packet (CTP) with student at the initial advising appointment. Course sequencing and scheduling information will also be discussed by the RN-BSN program director at the advising session. CTP should be completed by the identified due date in the CTP. A minimum 2.9 cumulative GPA is required for admission and enrollment in the RN-BSN track.

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NUR3065L Health Assessment (3 Credits)
NUR3166 Nursing Science I (1 Credit)
NUR3619 Family/Community Assessment (3-4 Credits)
NUR3825 Socialization Prof Nursing (2 Credits)
NUR3082 Transition Concepts (3 Credits)
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NUR3082L Transition Practice (1 Credit)
NUR3167 Nursing Science II (2 Credits)
NUR4826 Applied Nursing Ethics (2 Credits)
NUR4827 Leadership/Mgmt in Nursing (3 Credits)
NUR4168 Nursing Science III (1 Credit)
NUR4636 Community Partnerships (3 Credits)
NUR4636L Community Nursing Practice (2 Credits)
NUR4945 Professional Integration (2 Credits)
NUR4945L Directed Clinical Study (1-3 Credits)

NCLEX Validation Credit (30 credits)
Thirty hours of Nursing Validation Credits are awarded in the student's last semester of enrollment in the BSN. These 30 hours are awarded based upon validation of previous nursing knowledge through satisfactory completion of NCLEX examination.
NUR3000X

## Table of Contents

## Major: Health Administration <br> Concentration: Aging Services <br> Degree: Bachelor of Health Admin.

Prerequisites ( 15 credits)
Must be completed with a grade of " C " or higher
ACG2021 Prin of Financial Accounting (3 Credits)
ACGX021, ACGX024 or ACGX001 and ACGX011 are acceptable substitutes for ACG2021.

ACG2071 Prin Managerial Accounting (3 Credits)
ACGX071 and ACGX301 are acceptable substitutes for ACG2071.
ECO2023 Principles of Microeconomics (3 Credits)
STA2023 (GM) Elem Statistics-Business (3 Credits)
SELECT ONE COMPUTER APPLICATIONS COURSE
CGSX061, CGSX100 and ISMX000 are acceptable substitutes for the CGS
requirement. Recommend CGS 1100 or CGS 1570

## Requisites (3 credits)

Must be completed with a grade of " C " or higher
HSA2530 The Language of Healthcare (3 Credits)

Major Requirements (42 credits)
Must be completed with a grade of " C " or higher

- **New as of fall $2013^{* *}$ Students electing to take Long Term Care Internship must add the Aging Services concentration. See a Brooks College of Health advisor.

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HSA3111 Intro to Health Administration (3 Credits)
HSA4111 U.S. Health Care System (3 Credits)
HSA3522 Managerial Epidemiology (3 Credits)
HSA4553 Health Law and Ethics (3 Credits)
HSA4170 Health Care Finance (3 Credits)
            Prerequisite: ACG2021
HSA3113 Consumer Issues in Healthcare (3 Credits)
HSA3210 Long Term Care Administration (3 Credits)
HSA4150 Introduction to Health Policy (3 Credits)
HSA3191 Health Information Systems I (3 Credits)
HSA3340 Healthcare Human Resources (3 Credits)
HSA3383 Quality Mangement Healthcare (3 Credits)
HSA3160 Health Care Marketing (3 Credits)
HSA4004 Professional Skills Dev (3 Credits)
            Prerequisite: HSA4170
            Co-requisite: HSA4922
        HSA4922 Capstone: Health Admin (3 Credits)
            Prerequisites: ACG2021, ACG2071, ECO2023, STA2023, CGS1100, HSA4170
            Co-requisite: HSA4004
            Must be completed the semester prior to Internship
```

Internships (9 credits)

Must be completed with a grade of C or higher.

- Students wishing to qualify for the HSA4941 Long Term Administration Internship must successfully complete the Aging Services concentration and all pre-internship requirements prior to start of the internship.
- Students completing the Aging Services concentration but electing the HSA4850 Health Administration Internship instead of the HSA4941 internship must complete one major elective (3 credits).


## SELECT ONE INTERNSHIP FROM FOLLOWING

- HSA4850 Health Administration Internship (6 credits) - available in fall, spring, and summer
Prerequisites:ACG2021, ACG2071, ECO2023, STA2023, CGS1100, HSA4170, and HSA4004.
- HSA4941 Long Term Care Administration Internship (9 credits) - available in fall and spring only
Prerequisites:HSA3154, GEY3004, GEY3503

Concentration Requirements (9 credits)
Must be completed with a grade of C or higher.

- Successful completion of the Aging Services concentration is required prior to start of the internship.

HSA3154 Aging Policy and Politics (3 Credits)
GEY3004 Aging in America (3 Credits)
GEY3503 Assisted Living Admin (3 Credits)
available in fall and spring only

## Major Electives (3 credits)

Must be completed with a grade of C or higher.

- Students electing the HSA4941 Long Term Care Administration Internship is not required to take any major electives.
- Students completing the Aging Services concentration but electing the HSA4850 Health Administration Internship instead of the HSA4941 internship must complete one major elective (3 credits).


## SELECT 1 FROM THE FOLLOWING

Elective options

- GEY, HSA, HSC, or MAN courses at the 3000/4000 level
- Other upper level (3000/4000) courses with approval of the program director. See a Brooks College of Health advisor for a list.


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Major: Nursing
Concentration: Prelicensure Accel. Nursing
Degree: BS in Nursing
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#### Abstract

Prerequisites (27 credits) Attention Regular \& Accelerated Prelicensure BSN applicants ONLY: In progress enrollment does not constitute completion/meeting your prerequisite requirements. You must successfully complete all required coursework to remain a viable School of Nursing applicant. You must maintain 2.90 or higher cumulative and prerequisite GPAs for consideration at the time of the application deadline. At least 5 of the 8 nursing-specific prerequisite courses, including no less than 3 of the 4 required science courses (MCB, A\&P I w/lab, A\&P II w/lab, \& Additional Science), must be completed by the application deadline. Proof of enrollment in all remaining courses must be supplied to the School of Nursing Admissions Office by the deadline.


SELECT One social science course
Any PSYXXXX, SOPXXXX, or SYGXXXX is acceptable.
**PSY2012 is a required prerequisite to DEP3054 at UNF.
DEP3054 Lifespan Developmental Psych (3 Credits)
DEPX004, DEPX054, DEPX000, DEPX414, or any Human Growth and Development across the Life Span may be substituted for DEP3054.
STA2014 (GM)Elem Statistics-Health/SS (3 Credits)
STAX014, STAX023, STAX122, STAX022, or any Statistic course maybe be substituted for STA 2014.
HUN2201 Basic Prin Human Nutrition (3 Credits)
HUNX201, NURX192 or any Human Nutrition course may be substituted for HUN 2201.

MCB2010C Microbiology (4 Credits)
MCBX010C, MCBX010/X010L, MCBX013c, MCBX013/X013L, MCBX000/X000L, MCBX004/X004L, or any Microbiology with lab may be substituted for MCB 2010C.
**If taking MCB course at UNF, BSC1010c and CHM2045/2045L are required prerequisites.
BSC2085C Human Anatomy and Physiology I (4 Credits)
BSCX085c, BSCX085/X085L, BSCX093c, BSCX093/X093L, or any Human Anatomy and Physiology I or Human Anatomy.
BSC2086C Human Anatomy \& Physiology II (4 Credits)
BSCX086c, BSCX086/X086L, BSCX094c, BSCX094/X094L, or any Human Anatomy
and Physiology II or Human Physiology.
SELECT Additional science course
Any CHMXXXX, BCHXXXX, BSCXXXX, PCBXXXX, or PHYXXXX with a minimum of 3 credit hours is acceptable.

1st Semester (14 credits)
Summer semester
Must be completed with a grade of " C " or higher.
NUR3028L Nursing Competencies (2 Credits)
NUR3065L Health Assessment (3 Credits)
NUR3128 Pathophysiology/Pharmacology (4 Credits)
NUR3619 Family/Community Assessment (3-4 Credits)
NUR3619L Clinical Practicum I (2 Credits)

2nd Semester (18 credits)
Fall semester
Must be completed with a grade of "C" or higher.
NUR3532 Psych Nsg Concepts (2 Credits)

NUR3229 Adult Hlth I Rehab Nsg (2 Credits)
NUR3225 Adult Hith II Med Surg Nsg (4 Credits)
NUR3235L Clinical Practicum II (6 Credits)
NUR3816 Professional Nursing Concepts (4 Credits)

3rd Semester (14 credits)
Spring semester
Must be completed with a grade of " C " or higher.
NUR3167 Nursing Science II (2 Credits)
NUR4492 Women's Hlth Nsg Concepts (1 Credit)
NUR4352 Concepts of Pediatric Nursing (1 Credit)
NUR4636 Community Partnerships (3 Credits)
NUR4466L Clinical Practicum III (4 Credits)
NUR4828 Role Transition (3 Credits)

4th Semester (5 credits)
Summer semester
Must be completed with a grade of " C " of higher.
NUR4168 Nursing Science III (1 Credit)
NUR4945L Directed Clinical Study (1-3 Credits)

## Table of Contents

## Major: Nursing <br> Concentration: Prelicensure Nursing <br> Degree: BS in Nursing


#### Abstract

Prerequisites (27 credits) Attention Regular \& Accelerated Prelicensure BSN applicants ONLY: In progress enrollment does not constitute completion/meeting your prerequisite requirements. You must successfully complete all required coursework to remain a viable School of Nursing applicant. You must maintain 2.90 or higher cumulative and prerequisite GPAs for consideration at the time of the application deadline. At least 5 of the 8 nursing-specific prerequisite courses, including no less than 3 of the 4 required science courses (MCB, A\&P I w/lab, A\&P II w/lab, \& Additional Science), must be completed by the application deadline. Proof of enrollment in all remaining courses must be supplied to the School of Nursing Admissions Office by the deadline.


SELECT One social science course
Any PSYXXXX, SOPXXXX, or SYGXXXX is acceptable.
**PSY2012 is a required prerequisite to DEP3054 at UNF.
DEP3054 Lifespan Developmental Psych (3 Credits)
DEPX004, DEPX054, DEPX000, DEPX414, or any Human Growth and Development across the Life Span may be substituted for DEP3054.
STA2014 (GM)Elem Statistics-Health/SS (3 Credits)
STAX014, STAX023, STAX122, STAX022, or any Statistic course maybe be substituted for STA 2014.
HUN2201 Basic Prin Human Nutrition (3 Credits)
HUNX201, NURX192 or any Human Nutrition course may be substituted for HUN 2201.

MCB2010C Microbiology (4 Credits)
MCBX010C, MCBX010/X010L, MCBX013c, MCBX013/X013L, MCBX000/X000L, MCBX004/X004L, or any Microbiology with lab may be substituted for MCB 2010 C. **If taking MCB course at UNF, BSC1010c and CHM2045/2045L are required prerequisites.
BSC2085C Human Anatomy and Physiology I (4 Credits)
BSCX085c, BSCX085/X085L, BSCX093c, BSCX093/X093L, or any Human Anatomy and Physiology I or Human Anatomy.
BSC2086C Human Anatomy \& Physiology II (4 Credits)
BSCX086c, BSCX086/X086L, BSCX094c, BSCX094/X094L, or any Human Anatomy and Physiology II or Human Physiology.

SELECT Additional science course
Any CHMXXXX, BCHXXXX, BSCXXXX, PCBXXXX, or PHYXXXX with a minimum of 3 credit hours is acceptable.

1st Semester (12 credits)
Summer or Fall semester
Must be completed with a grade of " C " or higher.

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NUR3028L Nursing Competencies (2 Credits)
NUR3065L Health Assessment (3 Credits)
NUR3118L Clinical Nursing Practice (2 Credits)
NUR3619 Family/Community Assessment (3-4 Credits)
NUR3825 Socialization Prof Nursing (2 Credits)
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2nd Semester (13 credits)
Fall or Spring semester
Must be completed with a grade of " C " or higher.
NUR3166 Nursing Science I (1 Credit)

NUR3128 Pathophysiology/Pharmacology (4 Credits)
NUR3531C Psych Mental Hlth Nursing (4 Credits)
NUR3219C Adult HIth I Rehab Nsg Concept (4 Credits)

3rd Semester (13 credits)
Spring or Fall semester
Must be completed with a grade of " C " or higher.
NUR3167 Nursing Science II (2 Credits)
NUR3255C Adult HIth II Med Surg Nsg Con (9 Credits)
NUR4826 Applied Nursing Ethics (2 Credits)

4th Semester (13 credits)
Fall or Spring semester
Must be completed with a grade of " C " or higher.
NUR4351C Pediatric Nsg Conc and Prac (3 Credits)
NUR4491C Women's Hlth Nsg Conc and Prac (3 Credits)
NUR4827 Leadership/Mgmt in Nursing (3 Credits)
NUR4168 Nursing Science III (1 Credit)
SELECT ONE NURSING/HLTH SCI ELECTIVE

5th Semester ( 12 credits)
Spring or Summer semester
Must be completed with a grade of " C " or higher.
NUR4636C Comm Partnerships/Nur Practice (5 Credits)
NUR4945C Profession Nursing Integration (3-7 Credits)

## Table of Contents

## Minor: Clinical \& Applied Movement Sc

Minor: Clinical \& Applied Movement Sc (23 credits)
The Clinical \& Applied Movement Sciences Minor is open to all UNF students except students pursuing Athletic Training major. A grade of $C$ or better is required for all minor courses.

- Majors in Health Science may count a maximum of two courses (PET3312c and PET4625) towards the minor.
- Prerequisites (BSC2085c and BSC2086c) must be successfully completed prior to taking the minor coursework.
- Students completing the Clinical \& Applied Movement Science minor may require an additional one or two semesters to satisfy requirements due to limited seats available in the minor courses and the courses are only offered once per academic year.

BSC2085C Human Anatomy and Physiology I (4 Credits)
BSC2086C Human Anatomy \& Physiology II (4 Credits)
SELECT 5 courses

- PET3603C Intro to Sports Medicine (Fall term)
- PET3620 Intro to Athletic Injuries (Fall term)
- PET3312C Biomechanics (Fall term)
- PET3621C Orthopedic Taping \& Bracing (Fall term)
- PET3324C Gross Anatomy for Hlth Care Professionals (Summer term)
- PET4630C Therapeutic Exercise (Fall term)
- PET4625 Research in Sports Medicine (Spring term)


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## Minor: Health Education

Minor: Health Education (18 credits)
Must be completed with a C grade or higher.

- This Health Education Minor is only available to Health Science major with Community Health concentration students.
- Community Health students may select a second Minor in Professional Education offered through the College of Education and Human Services. See Brooks College of Health Advisor, and university catalog for details. Students opting to complete the second Minor in Professional Ed are exempt from completing Community Health Major Electives.

HSC4102 Fitness for Health (3 Credits)
HSC4133 Sexuality Education (3 Credits)
HSC4134 Mental/Emotional Health Ed (3 Credits)
HSC4150 Subst Abuse/Violence Prevent (3 Credits)
HSC4563 Dimensions of HIth Older Adult (3 Credits)
HSC4572 Nutrition and Health (3 Credits)

## Table of Contents

## Major: International Business

## Concentration: Euromed to UNF

Degree: Bachelor of Business Admin.

Informational Text

- All courses must be completed with a " C " or better.
- A thesis is required as part of this program.

1st Semester (18 credits)
Semester at Euromed
ACG2021 Prin of Financial Accounting (3 Credits)
ECO2000 Economics for Teachers (3 Credits)
(3 credits)
GEB3001 Global Business Approach
(3 Credits)
GEB3002 Intl. Environment \& Geopolitic
(3 Credits)
MAC2233 (GM)Calculus for Business (3 Credits)
MAN4600 International Management (3 Credits)
FOREIGN Language

2nd Semester (18 credits)
Semester at Euromed
MAR3023 Principles of Marketing (3 Credits)
ISM4011 Intro Management Info Systems (3 Credits)
MAN3001 Intercultural Mgmt (3 Credits)
MAN3504 Operations Management (3 Credits)
BUL3002 Business Law (3 Credits)
STA2023 (GM) Elem Statistics-Business (3 Credits)
PERSONAL DEVELOPMENT
FOREIGN LANGUAGE

3rd Semester (18 credits)
Semester at Euromed
ACG2071 Prin Managerial Accounting (3 Credits)
ECO3001 International Trade
FOREIGN LANGUAGE
GEB3003 Research Methods in Management
GEB3004 International Business
INTRO. TO FINANCE
MARKETING FOR EMPLOYMENT
PERSONAL DEVELOPMENT
SUSTAINABL DEVELOPMENT

4th Semester (18 credits)
Semester at Euromed

5th Semester ( 15 credits)
Semester at UNF
ENC2210 (GW) Technical Writing (3 Credits)
FIN3404 Financial Management

MAN3025 Administrative Management (3 Credits)
ECO3704 International Trade (3 Credits)
ELECTIVE Any Business (3000-4000 level)
ACG BUL ECO ECP ECS FIN GEB GEO GIS MAN QMB REE RMI TAX TRA
6th Semester ( 18 credits)
Semester at UNF
BUL3130 Legal Environment of Business (3 Credits)
ISM4011 Intro Management Info Systems (3 Credits)
ECO3411 Business/Economic Statistics (3 Credits)
MAR4156 International Marketing (3 Credits)
MAJOR ELECTIVE (take one from list)

- ACG4251 - International Accounting
- ECO4713 - The International Monetary System
- ECS3013 - Economic Development
- ECS3403 - Current Issues in the Economy of Latin America
- ECS3303 - Current Issues in the Economics of the E.U.
- FRE3430 - French for the Professional
- GEO3502 - Economic Geography
- MAN4064 - Organizational Ethics: A Global Perspective
- SPN3013 - Spanish for Business
- TAX4901 - Directed Independent Study in Taxation
- TRA4721 - International Logistics

BUSINESS ELECTIVE (3000-4000 level)
Must select any 3000-4000 level business course that is not already a part of this program. ACG BUL ECO ECP ECS FIN GEB GEO GIS MAN MAR REE RMI TAX TRA

7th Semester ( 15 credits)

## Semester at UNF

FIN4604 International Finance (3 Credits)
SPC4064 Public Speaking Professionals (3 Credits)
MAN4720 Strategic Mgmt Business Policy (3 Credits)
BUSINESS ELECTIVE
Must select another 3000-4000 level business course that is not already a part of this program. ACG BUL ECO ECP ECS FIN GEB GEO GIS MAN MAR REE RMI TAX TRA
BUSINESS ELECTIVE
Must select any 3000-4000 level business couse that is not a part of this program. ACG BUL ECO ECP ECS FIN GEB GEO GIS MAN MAR REE RMI TAX TRA

8th Semester ( 12 credits)
Semester at UNF
GEB3361 International Business Interns (1-20 Credits)

9th Semester ( 10 credits)
Semester at UNF
GEB3361 International Business Interns (1-20 Credits)
MAN4905 Directed Indiv Study in Mgmt (1-3 Credits)

## Table of Contents

## Major: International Business <br> Concentration: UNF to Euromed <br> Degree: Bachelor of Business Admin.

Informational Text

- All courses must be completed with a " C " or better.
- A thesis is required as part of this program.

1st Semester (16 credits)
Semester at UNF
CGS1100 Computer Applications for Busi (3 Credits)
ENC1101 (GW) Rhetoric and Writing (3 Credits)
FRE1120 Beginning French I (4 Credits)
MAC1105 (GM) College Algebra (3 Credits)
GENERAL Education Course (3 Credits)

2nd Semester (16 credits)
Semester at UNF
STA2023 (GM) Elem Statistics-Business (3 Credits)
FRE1121 Beginning French II (4 Credits)
GENERAL Education Course (3 credits)
GENERAL Education Course (3 credits)
GENERAL Education Course (3 credits)

3rd Semester (15 credits)
Semester at UNF
ACG2021 Prin of Financial Accounting (3 Credits)
ECO2013 Principles of Macroeconomics (3 Credits)
FRE2240 Intermediate French I (3 Credits)
LIT2000 Introduction to Literature (3 Credits)
MAC2233 (GM)Calculus for Business (3 Credits)

4th Semester (18 credits)
Semester at UNF
ACG2071 Prin Managerial Accounting (3 Credits)
ECO2023 Principles of Microeconomics (3 Credits)
FRE2241 Intermediate French II (3 Credits)
ECO3411 Business/Economic Statistics (3 Credits)
GENERAL Education Course (3 credits)
GENERAL Education Course (3 credits)

5th Semester (6 credits)
Semester at UNF
ECO3704 International Trade (3 Credits)
FIN3403 Financial Management (3 Credits)

6th Semester (18 credits)
Semester at Euromed
BUL3130 Legal Environment of Business (3 Credits)
GEB3002 International Envir/Geopolitic
GEB3004 International Business

ISM4011 Intro Management Info Systems (3 Credits)
BUSINESS Elective
Must select 3000-4000 level business course that is not already part of this program.
ACG/BUL/ECO/ECP/FIN/GEB/GEO/ ISM/MAN/MAR/REE/RMI/TAX/TRA
FRENCH as a Foreign Language

7th Semester (18 credits)
Semester at Euromed
MAR3023 Principles of Marketing (3 Credits)
MAN3001 Intercultural Management
MAN4240 Organizational Behavior (3 Credits)
MAN4600 International Management (3 Credits)
MAN4082 E-Business Strategy (3 Credits)
MAN3504 Operations Management (3 Credits)
FRENCH as a Foreign Language

8th Semester ( 15 credits)
Semester at Euromed
MAN4583 Project Management (3 Credits)
SPC4064 Public Speaking Professionals (3 Credits)
MAR4156 International Marketing (3 Credits)
BUSINESS Elective
Must select any 3000-4000 level course that is not already part of this program.
ACG/BUL/ECO/ECP/FIN/GEB/GEO/GIS/ ISM/MAN/MAR/REE/RMI/TAX/TRA
BUSINESS Elective
Must select another 3000-4000 level business course that is not already a part of this program. ACG/BUL/ECO/ECP/FIN/GEB/GEO/GIS/ISM/
MAN/MAR/REE/RMI/TAX/TRA
FRENCH as a Foreign Language

9th Semester ( 21 credits)
Semester at Euromed
GEB3361 International Business Interns (1-20 Credits)
MAN4905 Directed Indiv Study in Mgmt (1-3 Credits)

## Table of Contents

## Minor: Business Administration

Minor: Business Administration (30 credits)
This minor is available for all majors where allowed, except business majors. A grade of "C" or better is required for all minor courses. A minimum of 12 credits of upper-level course work must be taken at UNF as part of the minor.

- Transient/concurrent enrollment at other institutions is not permitted.

PREREQS Business Administration

- ACG 2021 Prin of Financial Accounting
- ACG 2071 Prin of Managerial Accounting
- CGS 1100 Computer Applications for Bus
- ECO 2013 Principles of Macroeconomics
- ECO 2023 Principles of Microeconomics
- STA 2023 G(M) Elem Statistics-Business

FIN3403 Financial Management (3 Credits)
MAN3025 Administrative Management (3 Credits)
SELECT 2 courses from list:

- BUL 3130 Legal Environment of Business
- MAN 3504 Production/Operations and Logistics
- MAR 3023 Principles of Marketing


## Table of Contents

## Minor: Finance

Minor: Finance (36 credits)
This minor is available to all majors where allowed. In addition to the prerequisites, 15 semester hours are required, 9 of which must be taken at UNF. A grade or "C" or better is required.

- Transient/concurrent enrollment at other institutions is not permitted.

PREREQS Finance

- ACG 2021 Prin of Financial Accounting
- ACG 2071 Prin of Managerial Accounting
- CGS 1100 Computer Applications for Bus
- ECO 2013 Principles of Macroeconomics
- ECO 2023 Principles of Microeconomics
- STA 2023 G(M) Elem Statistics-Business
- MAC 2233 Calculus for Business

MINOR Requirements

- FIN 3303 Financial Markets \& Institutions (formerly FIN3233)
- FIN 3403 Financial Management
- FIN 4504 Investments


## ELECTIVES Finance

Accounting Majors may not use TAX 3721.
Financial Services Majors may not use FIN 3140.
A student must choose any 2 courses from the following: (Any combination will work)

- RMI 4135 Employee Benefits Plans
- RMI 3011 Risk Management and Insurance
- ACG 4944 Small Business Counseling
- ECO 4223 Monetary Economics
- TAX 3721 Tax Planning and Financial Decisions
- FIN 3000-4000 Level
- REE 3000-4000 Level


## Table of Contents

## Minor: Economics

Minor: Economics (18 credits)
18 semester hours are required. Of the 12 hours required at the upper level at least 6 must be taken at UNF. Grade of "C" or better is required in all minor courses. This minor is available to all majors where allowed.

- Transient/concurrent enrollment at other institutions is not permitted.


## PREREQS Economics

- ECO 2013 Principles of Macroeconomics
- ECO 2023 Principles of Microeconomics

ECO3101 Intermediate Microeconomics (3 Credits)
ECO3203 Intermediate Macroeconomics (3 Credits)
ECO3411 Business/Economic Statistics (3 Credits)
SELECT 1 course from list

- ECO 3000-4000 level
- ECP 3000-4000 leve
- ECS 3000-4000 level
- GEO 3000-4000 level
- GIS 3000-4000 level


## Table of Contents

## Minor: Geography

Minor: Geography (15 credits)

> * Student must take a minimum of 12 hours of course work in Geography at UNF. * A grade of "C" or better is required in all minor courses, including any pre-requisites. * This minor is available to any UNF major (Where allowable - see your academic advisor)

GEO2200 Physical Geography (3 Credits)
GEO2420 CD-Cultural Geography (3 Credits)
GIS3043 Introduction to GIS (3 Credits)
CHOOSE one course
GEO3502 or GEO3553
SELECT one course
GEO3372, GEA3405, GIS4048, ANT4492, INR4603, GEO4956, ECO4956,
ACG4956, FIN4956, MAN4956, MAR4956, TRA4956 or TAX4956

## Table of Contents

## Minor: Entrepreneurship

Minor: Entrepreneurship (24 credits)
This minor is available to all majors if allowed by college. Conditions for Minor:

- Students must take a minimum of 12 hours of upper-level course work in Entrepreneurship at UNF.
- A grade of "C" or better is required for all minor courses, including prerequisites.
- Transient/concurrent enrollment at other institutions is not permitted.


## PREREQS Entrepreneurship

- FIN 3403 Financial Management
- MAN 3025 Administrative Management
- MAR 3023 Principles of Marketing

GEB4113 Entrepreneurship (3 Credits)
SELECT 4 courses from list:

- GEB 3154 Entrepreneurial Marketing
- FIN 4461 Financial Statement Analysis
- MAN 4583 Project Management
- GEB 3132 Family Business Management
- GEB 3124 Students in Free Enterprise
- GEB 4942 Entrepreneurial Internship
- GEB 4104 Small Business Consulting


## Table of Contents

## Minor: International Business

Minor: International Business (15 credits)
This minor is available only to students majoring in Business. The minor requires 15 semester hours of which 9 must be taken at UNF. A grade of $C$ or better is required in all courses. IB minors are permitted to take up to 12 minor hours abroad IF they are taking the courses at a Coggin College exchange partner institution.

- Transient/concurrent enrollment at another institution is not permitted.

MINOR Requirements
A student must take:

- ECO 3704 International Trade
- FIN 4604 International Finance
- MAN 4600 International Management

SELECT 1 course from list:

- MAR 4156 International Marketing
- TRA 4721 International Logistics

SELECT 1 course from list:

- HIS 3000-4000 level
- GEO 3000-4000 level
- ASH 3000-4000 level
- EUH 3000-4000 level
- LAH 3000-4000 level


## Table of Contents

## Major: Anthropology

Degree: Bachelor of Arts

## Prerequisites (6 credits)

Requires grades of "C" or above.
TAKE 2 INTRO ANTHRO. (1000/2000)

- ANT

Major Requirements (21 credits)

- The courses in this area are usually offered Fall \& Spring. Grades of "C" or higher required in all courses.

ANT3933 Seminar in Anthropology (3 Credits)
Fall semester of junior year
ANT3610 Linguistic Anthropology (3 Credits)
Fall semester of junior year
ANT3514 Princ of Physical Anthropology (3 Credits)
Spring semester of senior year
ANT3101 Fundamentals of Archaeology (3 Credits)
ANT3414 Princ Socio Cult Anthro (3 Credits)
SELECT ONE FROM THE FOLLOWING
ANT 4034 Survey Anthropological Theories ANT 4115 Archaeological Research Strategies
SELECT 1 FROM THE FOLLOWING:

- ANT 4083 Quantitative Methods in Anthropology
- ANT 4497 Ethnographic Methods(previous course \# ANT4801)

Major Electives (15 credits)

Only Two courses may be Foreign Culture (FC) Designated courses.
SELECT 5 FROM THE FOLLOWING:

- ANT 4990 Archaeological Field Methods
- ANT 4620 Language, Culture, and Society
- ANT 4497 Ethnographic Methods
- ANT 4905 Directed Independent Study in Anthropology
- ANT 4931 Selected Topics in Cultural Anthropology
- ANT 4083 Quantitative Methods in Anthropology
- ANT 4274 Political Anthropology
- ANT 4444 Cities \& Globalization
- ANT 3243 Comparative Muslim Cultures
- ANT 3443 The City \& Health
- ANT 4241 Anthropology of Religion
- ANT 3355 The African Diaspora
- ANT 4451 Anthropology of Race
- ANT 3311 (FC) Indians of the Southeast U.S.
- ANT 3212 CD-(FC) People \& Cultures of the World
- ANT 3312 CD-(FC) North American Indians
- ANT 4352 (FC) People \& Cultures of Africa
- ANT 4362 (FC) People \& Cultures of South East Asia
- ANT 3340 Anthropology of the West Indies
- ANT 3740 Introduction to Forensic Sciences
- ANT 4331 People of the Andes
- ANT 3320 Native Peoples: Cultures of Southwest
- ANT 4025 Anthropology of Death
- ANT 4970 Honors Thesis in Anthropology

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Foreign Language/Foreign Cultures
All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

## TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (1 credits)
ELECTIVES 1 HR @ 3000/4000 LEVEL
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Music Jazz Studies <br> Degree: Bachelor of Music

Freshman Year Fall Semester (11 credits)
Jazz guitar majors take only 2 jazz ensembles and 6 jazz guitar ensembles.
MUT1111 Theory I (3 Credits)
MUT1241 Theory I, Aural (1 Credit)
MUN2120 Concert Band (Lower) (1 Credit)
MVK1111 Class Piano I (1 Credit)
*Students may take a piano proficiency test to waive class piano sequence.
MUN2710 Jazz Ensemble-Lower Level (1 Credit)
MUT1361 Jazz Fundamentals I (2 Credits)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
TAKE One 1000 level Applied Music

Freshman Year Spring Semester (11 credits)
MUT1112 Theory II (3 Credits)
MUT1242 Theory II, Aural (1 Credit)
MUN2120 Concert Band (Lower) (1 Credit)
MVK1112 Class Piano II (1 Credit)
*Students may take a piano proficiency test to waive class piano sequence.
MUN2710 Jazz Ensemble-Lower Level (1 Credit)
MUT1362 Jazz Fundamentals II (2 Credits)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
TAKE One 1000 level Applied Music

Sophomore Year Fall Semester (11 credits)
MUT2116 Theory III (3 Credits)
MUT2246 Advanced Aural Theory (1 Credit)
MUN2710 Jazz Ensemble-Lower Level (1 Credit)
MVK2121 Class Piano III (1 Credit)
*Students may take a piano proficiency test to waive class piano sequence.
MUT2641 Jazz Improvisation I (2 Credits)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MVJ1010 Jazz Piano I (1 Credit)
TAKE One 2000 level Applied Music

Sophomore Year Spring Semester (11 credits)
MUT2117 Theory IV (3 Credits)
MUT2247 Advanced Aural Theory (1 Credit)
MVK2122 Class Piano IV (1 Credit)
*Students may take a piano proficiency test to waive class piano sequence.
MUN2710 Jazz Ensemble-Lower Level (1 Credit)
MUT2642 Jazz Improvisation II (2 Credits)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MVJ1210 Jazz Piano II (1 Credit)
TAKE One 2000 Level Applied Music

MUN4714 Jazz Combo (Small Group) (1 Credit)
MUN3713 Jazz Ensemble (1 Credit)
MUT3643 Jazz Improvisation III (2 Credits)
MUH3211 Music History I (3 Credits)
MUT4365 Jazz Arranging I (3 Credits)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUM3701 The Music Business (3 Credits)
TAKE One 3000 level Applied Music

Junior Year Spring Semester (12 credits)
The department recommends taking a Cultural Diversity for General Education requirements.

```
MUN4714 Jazz Combo (Small Group) (1 Credit)
MUN3713 Jazz Ensemble (1 Credit)
MUT3644 Jazz Improvisation Iv (2 Credits)
MUH3212 Music History II (3 Credits)
MUT4366 Jazz Arranging II (3 Credits)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
TAKE One 3000 Level Applied Music
```

Senior Year Fall Semester (12 credits)
The department recommends taking a Natural Science with lab for General Education Requirements.

MUT4663 Jazz Styles and Analysis I (2 Credits)
MUG3104 Basic Conducting (2 Credits)
MUS3340 Computer MIDI Score (2 Credits)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
SELECT 3 HRS MUSIC ELECTIVES

- 3000/400 Level
- MUS MUT MUN MUE MUG MUO MUH MUM MVB MVJ MVK MVS MVV MVW

MUN3713 Jazz Ensemble (1 Credit)
TAKE One 4000 level Applied Music

Senior Year Spring Semester (8 credits)
The department recommends taking a Natural Science and Philosophy for General Education requirements.

```
MUT4664 Jazz Styles and Analysis II (2 Credits)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS4970 Senior Recital (0 Credits)
SELECT 4 HRS OF MUSIC ELECTIVES
- 3000/400 Level
- MUS MUT MUN MUE MUG MUO MUH MUM MVB MVJ MVK MVP MVS MVV MVW
```

MUN3713 Jazz Ensemble (1 Credit)
TAKE One 4000 level Applied Music

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## Major: Art <br> Concentration: Ceramics <br> Degree: Bachelor of Arts

Prerequisites (24 credits)
Requires grades of C or above.
Note: Students should continually take art history courses with other art courses to properly
prepare for the major.

```
ARH2050 Art History Survey I (3 Credits)
ARH2051 Art History Survey II (3 Credits)
ART1201C Two-Dimensional Design (3 Credits)
ART2203C Three-Dimensional Design (3 Credits)
    Acceptable substitute: ART X202
ART1300C Drawing I (3 Credits)
ART2301C Drawing II (3 Credits)
    Acceptable substitutes: ARTX330, X205, X310, X305
SELECT 2 INTRO MEDIA COURSES
    1000/2000 Level
- ART
```


## Major Requirements (21 credits)

Prerequisite policy: courses must be taken in prerequisite order. Electronic approval must be obtained for courses requiring prerequisites each semester. Please check the catalog course description section for prerequisites required for each course prior to registering. If a course is a prerequisite to another, the courses may not be taken at the same time. Prerequisites are strictly enforced by the faculty and registrar.
First day attendance rule: any students who misses the first day without advanced notice to the department chair will be administratively withdrawn from the course.
Grades of C or above required for all major courses.
ART2330C Figure Drawing I (3 Credits)
Prereqs: ART 1300C \& ART 2301C
ARH4800 Aesthetics of Art (3 Credits)
ART3707C Sculpture I (3 Credits)
ART3786C Ceramics (3 Credits)
ART4965C Fine Arts Portfolio (3 Credits)
SELECT 2 ART HIST COURSES (3000/4000)

- ARH

Major Electives (9 credits)
Please refer to the course description for repeatability information.
SELECT 2 COURSES FROM THE FOLLOWING:

- ART 3786C Ceramics
- ART 3765C Intermediate Ceramics
- ART 4768C Advanced Ceramics

SELECT 1 ART ELECTIVE (3000/4000)

- ART

Note: Students may not take any independent study courses in any fine arts area without the prior, written approval of the department chairperson.

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of C or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.


## FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (7 credits)
SELECT 7 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Music Performance <br> Concentration: Music-Classical Piano <br> Degree: Bachelor of Music

Freshman Year Fall Semester (7 credits)


- 3000/4000 Level
- MUT MUN MUE MUO MUH MVJ MVK MVS MVV MVW MVP

Junior Year Spring Semester (16 credits)
CHOOSE 1 Advanced Music Theory

- Select one not previously taken
- MUT 4626 20th Century Music Theory
- MUT 4311 Orchestration
- MUT 4421 18th Century Counterpoint

MUH3212 Music History II (3 Credits)
MUL4401 Piano Literature II (2 Credits)
MUN3313 UNF Chorale (Upper) (1 Credit)
MUN3453 Piano Ensemble (1 Credit)
MUN3513 Collaborative Piano II (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MVK3331 Applied Piano (2 Credits)
SELECT 3 HOURS OF MUSIC ELECTIVES

- 3000/4000 Level
- mUT MUN MUE MUO MUH MVJ MVK MVS MVV MVW MVP

Senior Year Fall Semester (15 credits)

```
MUN3313 UNF Chorale (Upper) (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS3340 Computer MIDI Score (2 Credits)
MUT3611 Form and Analysis (3 Credits)
MVK3631 Elementary Piano Pedagogy (3 Credits)
MVK4341 Applied Piano (2 Credits)
SELECT 3 HOURS OF MUSIC ELECTIVES
- 3000/4000 Level
- MUT MUN MUE MUO MUH MVJ MVK MVS MVV MVW MVP
```


## Senior Year Spring Semester (13 credits)

CHOOSE 3 HRS OF FREE ELECTIVES

- 3000/4000 Level

MUH2501 CD- World Music (3 Credits)
MUN3313 UNF Chorale (Upper) (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS4970 Senior Recital (0 Credits)
MUT4650 Composition and Improvisation (2 Credits)
MVK3632 Intermediate Piano Pedagogy (3 Credits)
MVK4341 Applied Piano (2 Credits)

## Table of Contents

## Major: Art <br> Concentration: Painting, Drawing, Printmaking <br> Degree: Bachelor of Arts

Prerequisites (24 credits)
Requires grades of C or above.
Note: Students should continually take art history courses with other art courses to properly
prepare for the major.
ARH2050 Art History Survey I (3 Credits)
ARH2051 Art History Survey II (3 Credits)
ART1201C Two-Dimensional Design (3 Credits)
ART2203C Three-Dimensional Design (3 Credits)
Acceptable substitute: ART X202
ART1300C Drawing I (3 Credits)
ART2301C Drawing II (3 Credits)
Acceptable substitutes: ARTX330, X205, X310, X305
SELECT 2 INTRO MEDIA COURSES
1000/2000 Level

- ART
- Art Department Strongly Recommends:

ART 2400C Intro to Printmaking
ART 1205C Color Theory

Major Requirements (21 credits)
Requires grades of C or higher.

```
ART2330C Figure Drawing I (3 Credits)
    Prereq: ART 1300C & ART 2301C
ART2500C Painting Fundamentals (3 Credits)
    Prereq: one drawing course
ART3332C Figure Drawing II (3 Credits)
    Prereq: ART 3504C
ART3560C Figurative Painting (3 Credits)
    Prereq: ART 2500C & ART 3332C
ART3504C Painting Studio (3 Credits)
    Prereq: ART 2500C
ART4805C Painting and Drawing Research (3 Credits)
    Prereq: ART 3332C & ART 3504C
ART4965C Fine Arts Portfolio (3 Credits)
```

Major Electives (9 credits)

Requires grades of C or higher.
SELECT 1 ART HISTORY

- ARH (3000/4000)


## SELECT 2 ART ELECTIVES

- ART (3000/4000)

The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Foreign Language/Foreign Cultures
All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of C or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a " C " or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.


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## Major: Music Performance <br> Concentration: Music-Classical Voice <br> Degree: Bachelor of Music

Freshman Year Fall Semester (8 credits)
MUN2310 UNF Chorale (Lower) (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT1111 Theory I (3 Credits)
MUT1241 Theory I, Aural (1 Credit)
MVK1111 Class Piano I (1 Credit)
*Students may take a piano proficiency test to waive class piano sequence.
MVV1311 Applied Voice (2 Credits)

Freshman Year Spring Semester (8 credits)
MUN2310 UNF Chorale (Lower) (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT1112 Theory II (3 Credits)
MUT1242 Theory II, Aural (1 Credit)
MVK1112 Class Piano II (1 Credit)
*Students may take a piano proficiency test to waive class piano sequence.
MVV1311 Applied Voice (2 Credits)

Sophomore Year Fall Semester ( 13 credits)
MUN2310 UNF Chorale (Lower) (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS2241 Italian Diction (1 Credit)
MUT2116 Theory III (3 Credits)
MUT2246 Advanced Aural Theory (1 Credit)
MVK2121 Class Piano III (1 Credit)
*Students may take a piano proficiency test to waive class piano sequence.
MVV2321 Applied Voice (2 Credits)
SELECT Beginning Foreign Language

- Select a Beginning I Foreign Language course

Sophomore Year Spring Semester (8 credits)
MUN2310 UNF Chorale (Lower) (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT2117 Theory IV (3 Credits)
MUT2247 Advanced Aural Theory (1 Credit)
MVK2122 Class Piano IV (1 Credit)
*Students may take a piano proficiency test to waive class piano sequence.
MVV2321 Applied Voice (2 Credits)

Junior Year Fall Semester (16 credits)
CHOOSE Beginning Foreign Language

- Select a Beginning II Foreign Language course

MUG3104 Basic Conducting (2 Credits) MUH3211 Music History I (3 Credits)
MUN3313 UNF Chorale (Upper) (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS2221 French Diction (1 Credit)
MVV3331 Applied Voice (2 Credits)
SELECT 3 HOURS OF MUSIC ELECTIVES

- 3000/4000 Level
- MUT MUN MUE MUO MUH MVJ MVK MVS MVV MVW MVP

Junior Year Spring Semester (16 credits)
CHOOSE 1 Advanced Music Theory

- MUT 4626 20th Century Music Theory
- MUT 4311 Orchestration
- MUT 4421 18th Century Counterpoint

MUH3212 Music History II (3 Credits)
MUL4602 Vocal Literature (2 Credits)
MUN3313 UNF Chorale (Upper) (1 Credit)
MUO3503 Opera Workshop (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS2231 German Diction (1 Credit)
MVV3331 Applied Voice (2 Credits)
SELECT 3 HOURS OF MUSIC ELECTIVES

- 3000/4000 Level
- MUT MUN MUE MUO MUH MVJ MVK MVS MVV MVW MVP

Senior Year Fall Semester (14 credits)
CHOOSE 1 Advanced Music Theory

- MUT 4626 20th Century Music Theory
- MUT 4311 Orchestration
- MUT 4421 18th Century Counterpoint

MUN3313 UNF Chorale (Upper) (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS3340 Computer MIDI Score (2 Credits)
MUT3611 Form and Analysis (3 Credits)
MVV4341 Applied Voice (2 Credits)
SELECT 3 HOURS OF MUSIC ELECTIVES

- 3000/4000 Level
- mUT MUN MUE MUO MUH MVJ MVK MVS MVV MVW MVP

Senior Year Spring Semester ( 15 credits)

```
MUH2501 CD- World Music (3 Credits)
MUN3313 UNF Chorale (Upper) (1 Credit)
MUO3503 Opera Workshop (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT4650 Composition and Improvisation (2 Credits)
MVV4341 Applied Voice (2 Credits)
MVV4640 Vocal Pedagogy (2 Credits)
MVV4971 Senior Voice Recital (0 Credits)
```

SELECT 4 HOURS OF MUSIC ELECTIVES

- 3000/4000 Level
- MUT MUN MUE MUO MUH MVJ MVK MVS MVV MVW MVP


## Table of Contents

## Major: Art <br> Concentration: Sculpture <br> Degree: Bachelor of Arts

Prerequisites (24 credits)
Requires grades of C or above.
Note: Students should continually take art history courses with other art courses to properly
prepare for the major.

```
ARH2050 Art History Survey I (3 Credits)
ARH2051 Art History Survey II (3 Credits)
ART1201C Two-Dimensional Design (3 Credits)
ART2203C Three-Dimensional Design (3 Credits)
    Acceptable substitute: ART X202
ART1300C Drawing I (3 Credits)
ART2301C Drawing II (3 Credits)
    Acceptable substitutes: ARTX330, X205, X310, X305
SELECT 2 INTRO MEDIA COURSES
    1000/2000 Level
- ART
```


## Major Requirements (21 credits)

Prerequisite policy: courses must be taken in prerequisite order. Electronic approval must be obtained for courses requiring prerequisites each semester. Please check the catalog course description section for prerequisites required for each course prior to registering. If a course is a prerequisite to another, the courses may not be taken at the same time. Prerequisites are strictly enforced by the faculty and registrar.
First day attendance rule: any students who misses the first day without advanced notice to the department chair will be administratively withdrawn from the course. Grades of $C$ or above required for all major courses.

ARH4800 Aesthetics of Art (3 Credits)
ART2300C Figure Drawing
ART3707C Sculpture I (3 Credits)
ART3786C Ceramics (3 Credits)
ART4965C Fine Arts Portfolio (3 Credits)
SELECT 2 ART HIST COURSES (3000/4000)

- ARH


## Major Electives (9 credits)

Please refer to the course description for repeatability information
SELECT 2 COURSES FROM THE FOLLOWING:

- ART 3709C Sculpture II
- ART 4710C Sculpture III

SELECT 1 ART ELECTIVE (3000/4000)

- ART

Note: Students may not take any independent study courses in any fine arts area without the prior, written approval of the department chairperson.

Minor Required
A minor is required for this major.*

The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of C or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a " C " or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

SELECT 7 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Music Performance <br> Concentration: Music-Harp <br> Degree: Bachelor of Music

Freshman Year Fall Semester (8 credits)

|  | MUN3413 Orchestra (1 Credit) |
| :---: | :---: |
|  | MUS1010 Performance Laboratory (0 Credits) |
|  | MUS1011 Concert Attendance (0 Credits) |
|  | MUT1111 Theory I (3 Credits) |
|  | MUT1241 Theory I, Aural (1 Credit) |
|  | MVK1111 Class Piano I (1 Credit) |
|  | *Students may take a piano proficiency test |
|  | MVS1315 Applied Harp I (2 Credits) |
| Freshman Year Spring Semester (8 credits) |  |
|  | MUN3413 Orchestra (1 Credit) |
|  | MUS1010 Performance Laboratory (0 Credits) |
|  | MUS1011 Concert Attendance (0 Credits) |
|  | MUT1112 Theory II (3 Credits) |
|  | MUT1242 Theory II, Aural (1 Credit) |
|  | MVK1112 Class Piano II (1 Credit) |
|  | *Students may take a piano proficiency test |
|  | MVS1315 Applied Harp I (2 Credits) |
| Sophomore Year Fall Semester (8 credits) |  |
|  | MUN3413 Orchestra (1 Credit) |
|  | MUS1010 Performance Laboratory (0 Credits) |
|  | MUS1011 Concert Attendance (0 Credits) |
|  | MUT2116 Theory III (3 Credits) |
|  | MUT2246 Advanced Aural Theory (1 Credit) |
|  | MVK2121 Class Piano III (1 Credit) |
|  | *Students may take a piano proficiency test |
|  | MVS2325 Applied Harp II (2 Credits) |
|  | TAKE 1 Beginning Foreign Language |
| Sophomore Year Spring Semester (8 credits) |  |
| MUN3413 Orchestra (1 Credit) |  |
| MUS1010 Performance Laboratory (0 Credits) |  |
| MUS1011 Concert Attendance (0 Credits) |  |
| MUT2117 Theory IV (3 Credits) |  |
| MUT2247 Advanced Aural Theory (1 Credit) |  |
| MVK2122 Class Piano IV (1 Credit) |  |
| *Students may take a piano proficiency test to waive class piano sequence. |  |
| MVS2325 Applied Harp II (2 Credits) |  |
| Junior Year Fall Semester (15 credits) |  |
| MUG3104 Basic Conducting (2 Credits) |  |
| MUH3211 Music History I (3 Credits) |  |
| MUN3411 String Chamber Ensemble (1 Credit) |  |
| MUN3498 Harp Ensemble (1 Credit) |  |
| MUS1010 Performance Laboratory (0 Credits) |  |
| MUS1011 Concert Attendance (0 Credits) |  |
| MUT3611 Form and Analysis (3 Credits) |  |

MVS3335 Applied Harp III (2 Credits)
MVS3601 Harp Pedagogy (3 Credits)

Junior Year Spring Semester (15 credits)

## CHOOSE 3 HRS OF FREE ELECTIVES

- 3000/4000 Level

MUH3212 Music History II (3 Credits)
MUL4434 Harp Literature (3 Credits)
MUN3411 String Chamber Ensemble (1 Credit)
MUN3498 Harp Ensemble (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT4650 Composition and Improvisation (2 Credits)
MVS3335 Applied Harp III (2 Credits)

Senior Year Fall Semester (15 credits)
CHOOSE 3 HRS OF FREE ELECTIVES

- 3000/4000 Level

MUH2501 CD- World Music (3 Credits)
MUN3411 String Chamber Ensemble (1 Credit)
MUN3498 Harp Ensemble (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MVS3530 Violin and Viola Repertory I (2 Credits)
MVS4345 Applied Harp IV (2 Credits)
SELECT 1 ADVANCED MUSIC THEORY

- MUC 3231 Music Composition III
- MUC 4241 Music Composition V
- MUT 4311 Orchestration
- MUT 4421 18th Century Counterpoint
- MUT 4626 20th Century Music Theory

Senior Year Spring Semester ( 15 credits)
CHOOSE 6 HRS OF FREE ELECTIVES

- 3000/4000 Level

MUN3411 String Chamber Ensemble (1 Credit)
MUN3413 Orchestra (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS4970 Senior Recital (0 Credits)
MVS3531 Violin and Viola Repertory II (2 Credits)
MVS4345 Applied Harp IV (2 Credits)
SELECT 1 ADVANCED MUSIC THEORY
(Must be different from above selection)

- MUC 3231 Music Composition III
- MUC 4241 Music Composition V
- MUT 4311 Orchestration
- MUT 4421 18th Century Counterpoint
- MUT 4626 20th Century Music Theory


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## Major: Art History

Degree: Bachelor of Arts

## Prerequisites (23 credits)

ARH2050 Art History Survey I (3 Credits)
ARH2051 Art History Survey II (3 Credits)
DRAWING Select one beginning course

- ART 1300C Drawing I
- ART 2301C Drawing II Acceptable substitute: ART X310

DESIGN Select one beginning course

- ART 1201C Two-Dimensional Design
- ART 2203C Three-Dimensional Design Acceptable substitute: ART X202, X205

LANGUAGE Select one language series

- The Completion of the beginning and intermediate sequences of a language or demonstration of competency through testing is required.

Art History Foreign Language (3 credits)

## SELECT ONE

Intermiediate II Foreign Language course (3 credits) prefixes include:CHI, FRE, GER, POR, , RUS and SPN

Major Requirements (19 credits)
Students select four courses (one each) from the Ancient and Medieval, Renaissance and Baroque, American and Modern sequences. All art history majors are required to take the Art History Practicum (ARH 3940), the Art History Methods (ARH 3811) and the Art History Research (ARH 4910) course.

ARH3811 Art History Methods (3 Credits)
ARH4910 Art History Research (3 Credits)
ARH3940 Art History Practicum (1 Credit)
SELECT 1 Ancient \& Medieval course

- ARH 3130 The Art and Archeology of Ancient Greece
- ARH 3150 The Art and Architecture of Ancient Rome
- ARH 3211 Early Medieval Art and Architecture
- ARH 3250 Romanesque Art and Architecture
- ARH 3253 Gothic Art and Architecture

SELECT 1 Renaissance or Baroque course

- ARH 3302 Italian Renaissance Art
- ARH 3319 The Art and Architecture of Michelangelo
- ARH 3331 Northern Renaissance Art
- ARH 3350 Baroque Art
- ARH 3354 Rubens to Rembrandt: Netherlandish Baroque Art

SELECT 1 American course

- ARH 3631 African American Art History
- ARH 3621 American Art I: 1492-1876
- ARH 3623 American Art II: 1876-1940
- ARH 3410 Modern Eurpean Art I
- ARH 3434 Modern European Art II
- ARH 3404 British Art: Hogarth to Hirst
- ARH 3453 Postwar Art: 1940-1980
- ARH 3475 Contemporary Art: 1980 to Present

Major Electives (12 credits)
SELECT 4 ARH ELECTIVES (3000/4000)

- ARH 3583 Tribal Arts
- ARH 3843 Studies in Irish Art and Architecture
- ARH 3883 The Apocalypse in Medieval and Early Modern Art
- ARH 4801 Art Criticism
- ARH 4712 Photohistory 1839-1916
- ARH 4713 Photohistory 1916 - to Present
- ARH 3955 Art History on Site
- ARH 4941 Internship in Art History (Museum, Gallery Internship)

Prerequisites: ARH 2050, ARH 2051 and 3 upper-level ARH courses

- ARH 4905 Directed Individual Study Prerequisites: ARH 2050, ARH 2051 and 3 upper-level ARH courses


## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Free Electives (14 credits)
ELECTIVES 14 HOURS (3000-4000)

## Table of Contents

## Major: Music Performance <br> Concentration: Music-Strings <br> Degree: Bachelor of Music

Freshman Year Fall Semester (8 credits)

```
MUN3413 Orchestra (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT1111 Theory I (3 Credits)
MUT1241 Theory I, Aural (1 Credit)
MVK1111 Class Piano I (1 Credit)
    *Students may take a piano proficiency test to waive class piano sequence.
SELECT 1 APPLIED (1000 LEVEL)
- MVS 1411 Applied Violin I
- MVS 1412 Applied Viola I
- MVS 1413 Applied Violoncello I
- MVS 1314 Applied String Bass I
- MVS 1315 Applied Harp I
```

Freshman Year Spring Semester (8 credits)

```
MUN3413 Orchestra (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT1112 Theory II (3 Credits)
MUT1242 Theory II, Aural (1 Credit)
MVK1112 Class Piano II (1 Credit)
    *Students may take a piano proficiency test to waive class piano sequence.
SELECT 1 APPLIED (1000 LEVEL)
- MVS 1411 Applied Violin I
- MVS 1412 Applied Viola I
- MVS 1413 Applied Violoncello I
- MVS 1314 Applied String Bass I
- MVS 1315 Applied Harp I
```

Sophomore Year Fall Semester (8 credits)

```
MUN3413 Orchestra (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT2116 Theory III (3 Credits)
MUT2246 Advanced Aural Theory (1 Credit)
MVK2121 Class Piano III (1 Credit)
    *Students may take a piano proficiency test to waive class piano sequence.
```

SELECT 1 APPLIED (2000 LEVEL)

- MVS 2421 Applied Violin II
- MVS 2422 Applied Viola II
- MVS 2423 Applied Violoncello II
- MVS 2324 Applied String Bass II
- MVS 2325 Applied Harp II

MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT2117 Theory IV (3 Credits)
MUT2247 Advanced Aural Theory (1 Credit)
MVK2122 Class Piano IV (1 Credit)
*Students may take a piano proficiency test to waive class piano sequence.
SELECT 1 APPLIED (2000 LEVEL)

- MVS 2421 Applied Violin II
- MVS 2422 Applied Viola II
- MVS 2423 Applied Violoncello II
- MVS 2324 Applied String Bass II
- MVS 2325 Applied Harp II

Junior Year Fall Semester (14 credits)
SELECT 1 APPLIED (3000 LEVEL)

- MVS 3431 Applied Violin III
- MVS 3432 Applied Viola III
- MVS 3433 Applied Violoncello III
- MVS 3334 Applied String Bass III
- MVS 3335 Applied Harp III

MUG3104 Basic Conducting (2 Credits)
MUH3211 Music History I (3 Credits)
MUN3411 String Chamber Ensemble (1 Credit)
MUN3413 Orchestra (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
SELECT 1 ADVANCED MUSIC THEORY

- MUT 4626 20th Century Music Theory
- MUT 4421 18th Century Counterpoint
- MUT 4311 Orchestration

SELECT 1 String Pedagogy

- MVS 3640 Violin \& Viola Pedagogy
- MVS 3XXX Cello \& Bass Pedagogy

Junior Year Spring Semester (13 credits)
SELECT 1 APPLIED (3000 LEVEL)

- MVS 3431 Applied Violin III
- MVS 3432 Applied Viola III
- MVS 3433 Applied Violoncello III
- MVS 3334 Applied String Bass III
- MVS 3335 Applied Harp III

MUH3212 Music History II (3 Credits)
MUL4420 String Chamber Music Literatur (3 Credits)
MUN3411 String Chamber Ensemble (1 Credit)
MUN3413 Orchestra (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
SELECT 1 ADVANCED MUSIC THEORY
(Must be different from above selection)

- MUT 4311 Orchestration
- MUT 4421 18th Century Counterpoint
- MUT 4626 20th Century Music Theory

SELECT 1 APPLIED (4000 LEVEL)

- MVS 4441 Applied Violin IV
- MVS 4442 Applied Viola IV
- MVS 4443 Applied Violoncello IV
- MVS 4344 Applied String Bass IV
- MVS 4345 Applied Harp IV


## CHOOSE 6 HRS OF FREE ELECTIVES

- 3000/4000 Level
*Note: The Music Department recommends taking a String Repertory course as a free elective.

MUN3411 String Chamber Ensemble (1 Credit)
MUN3413 Orchestra (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS3340 Computer MIDI Score (2 Credits)
MUT3611 Form and Analysis (3 Credits)

Senior Year Spring Semester (14 credits)
SELECT 1 APPLIED (4000 LEVEL)

- MVS 4441 Applied Violin IV
- MVS 4442 Applied Viola IV
- MVS 4443 Applied Violoncello IV
- MVS 4344 Applied String Bass IV
- MVS 4345 Applied Harp IV

CHOOSE 5 HRS OF MUSIC ELECTIVES

- Select 5 hours of Music Electives 3000/4000 Level MUT MUN MUE MUO MUH MVJ MVK MVS MVV MVW MVP

MUH2501 CD- World Music (3 Credits)
MUN3411 String Chamber Ensemble (1 Credit)
MUN3413 Orchestra (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS4970 Senior Recital (0 Credits)
MUT4650 Composition and Improvisation (2 Credits)

## Table of Contents

## Major: Biology <br> Concentration: Biomedical Sciences <br> Degree: Bachelor of Science

```
Prerequisites (31 credits)
Requires grades of \(C\) or above.
BSC1010C General Biology I (4 Credits)
Acceptable substitutes: PCB x011C, BSC x040/L, x010/L
BSC1011C General Biology II (4 Credits)
Acceptable substitutes: ZOO x010, BOT x010/L, BSC x041, BOT x013/L, BSC x011/L
CHEMISTRY 1 REQUIREMENT
```

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab

Acceptable substitutes: CHM x040 \& x041 or CHMX045C

## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitute: CHM x046C

## ORGANIC 1 REQUIREMENT

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab

Acceptable substitutes: PHY 3053/L, 3048/L, CHM x210C
ORGANIC 2 REQUIREMENT

- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab

Acceptable substitutes: PHY x054/L, x049/L, CHM x211C
MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MAC x233, x253, x281, x241
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: STA x023, x024, x321, MAC x234, x282

Core Requirements (12 credits)
**The Department of Biology has specific requirements that must be completed as preparation for major courses. The following courses must be taken in addition to the prerequisites indicated above.Requires a grade of $C$ or above

BSC2012C General Biology III (4 Credits)

- Prereqs: BSC 1010C \& BSC 1011C

SELECT ONE SEQUENCE FROM:
Any Organic I \& II or Physics I \& II not completed as part of the prerequisites must be taken as core courses.

- PHY 2048 Calculus Physics I
- PHY 2048L Calculus Physics I Lab
- PHY 2049 Calculus Physics II
- PHY 2049L Calculus Physics II Lab Or
- PHY 2053 Algebra Physics I
- PHY 2053L Algebra Physics I Lab
- PHY 2054 Algebra Physics II
- PHY 2054L Algebra Physics II Lab

Or

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab

Students may take either CHM 2211 Organic Chemistry II \& CHM 2211L Organic Chemistry II lab or CHM 3120C Quantitative Analytical Chemistry.

- CHM 2210 Organic Chemistry I Lecture
- CHM 2210L Organic Chemistry I Lab
- CHM 3120C Quantitative Analytical Chemistry

Contextual Courses (4 credits)
Requires grades of C or above. The Department of Biology will accept Human Anatomy I and II
(BSC 2085C and BSC 2086C) as a substitute for ZOO 3733C
ZOO3733C Human Structure and Function (4 Credits)

Major Requirements (18 credits)
Requires grades of $C$ or above. Courses must be taken in prerequisite order. Electronic approval must be obtained each semester for courses whose prerequisites are transfers. Please check the catalog course description section for prerequisites required for each course prior to registering. If one course is a prerequisite for another, the two may not be taken together. Students will be administratively withdrawn from courses if earned grades in prerequisite courses are less than a C.

PCB3043C Principles of Ecology (4 Credits)
Prereq: BSC 2012C
PCB3063C Genetics (4 Credits)
Prereqs: BSC 2012C and CHM 2210/2210L
PCB3023C Molecular and Cell Biology (4 Credits)
Prereqs: BSC 2012C and CHM 2210/2210L
PCB4713C Physiology (4 Credits)
Prereqs: PCB 3023C and PHY 2054/2054L
BSC4840 Senior Seminar Preparation (1 Credit)

- New course number is BSC4842
- Pre-req is a minimum of 11 credits of upper level Biology courses.

BSC4947 Senior Seminar Practicum (1 Credit)

- Prereq: BSC4840 or BSC4842


## Major Electives (13 credits)

Major electives require a grade of C or above.

- One Biology elective must have a lab to complete this requirement.

BCH4024 Mol Biol Biochem (3 Credits)
Students can take BCH4024 Molecular Biology and Biochemistry (Prerequisite: PCB
3023C) \& BCH4024L Molecular Biology and Biochemistry Lab or BCH4033
Biochemistry (Prerequisite: CHM3120C and CHM2211/L)
BCH4024L Mol Biol Biochem Lab (1 Credit)
MCB3020C Microbial Biology (4 Credits)
Prereqs: BSC 2012C and CHM 2046C

- BSC 4870 Biological Basis of Pharmacology
- BSC 4921 Biology Lecture Series
- BSC 4930 Special Topics in Biology
- PCB 4234 Biology of Cancer
- PCB 4233 Immunology
- PCB 4805 Endocrinology
- MCB 3203 Pathogenic Bateriology
- MCB 4503 Virology
- ZOO 3713C Comparative Vertebrate Anatomy
- ZOO 4234C Parasitology
- ZOO 4715C Introduction to Canine Anatomy
- ZOO 4753C Histology
- ZOO 4485 Biology of Marine Mammals
- ZOO 4485L Biology of Marine Mammals Laboratory
- BSC 4022 Biology of Aging

Free Electives (13 credits)
ELECTIVES 3000/4000 LEVEL
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

Major: Music Performance<br>Concentration: Music-Woodwinds, Brass, Percus<br>Degree: Bachelor of Music

Freshman Year Fall Semester (8 credits)

```
MUN2140 Wind Symphony (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT1111 Theory I (3 Credits)
MUT1241 Theory I, Aural (1 Credit)
MVK1111 Class Piano I (1 Credit)
*Students may take a piano proficiency test to waive class piano
SELECT }1\mathrm{ APPLIED MUSIC (1000 LEVEL)
- MVB MVJ MVP
```

Freshman Year Spring Semester (8 credits)
MUN2140 Wind Symphony (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT1112 Theory II (3 Credits)
MUT1242 Theory II, Aural (1 Credit)
MVK1112 Class Piano II (1 Credit)
SELECT 1 APPLIED MUSIC (1000 LEVEL)

- MVB MVJ MVP

Sophomore Year Fall Semester (8 credits)

```
MUN2140 Wind Symphony (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT2116 Theory III (3 Credits)
MUT2246 Advanced Aural Theory (1 Credit)
MVK2121 Class Piano III (1 Credit)
SELECT 1 APPLIED MUSIC (2000 LEVEL)
- MVB MVJ MVP
```

Sophomore Year Spring Semester (8 credits)

```
MUN2140 Wind Symphony (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT2117 Theory IV (3 Credits)
MUT2247 Advanced Aural Theory (1 Credit)
MVK2122 Class Piano IV (1 Credit)
SELECT 1 APPLIED MUSIC (2000 LEVEL)
```

- MVB MVJ MVP

Junior Year Fall Semester (16 credits)
MUG3104 Basic Conducting (2 Credits)
MUH3211 Music History I (3 Credits)
MUN3143 Wind Symphony (1 Credit)
MUS1010 Performance Laboratory (0 Credits)

MUS1011 Concert Attendance (0 Credits)
MUT3611 Form and Analysis (3 Credits)
MVO4640 Wind and Percussion Pedagogy (3 Credits)
SELECT 1 APPLIED MUSIC (3000)

- MVB MVJ MVP


## TAKE 2 HOURS OF FREE ELECTIVES

- 3000/4000 Level

Junior Year Spring Semester (17 credits)
MUH2501 CD- World Music (3 Credits)
MUH3212 Music History II (3 Credits)
MUL4451C Wind and Percussion Literature (3 Credits)
MUN3143 Wind Symphony (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS3340 Computer MIDI Score (2 Credits)
SELECT 1 APPLIED MUSIC (3000 LEVEL)

- MVB MVJ MVP

TAKE 3 HOURS OF FREE ELECTIVES

- 3000/4000 Level

Senior Year Fall Semester (14 credits)
SELECT 3 HRS OF ADVANCED MUSIC THEORY

- MUT 4421 18th Century Counterpoint
- MUT 4626 20th Century Counterpoint
- MUT 4311 Orchestration

TAKE 3 HOURS OF FREE ELECTIVES

- 3000/4000 Level

MUN3143 Wind Symphony (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT4650 Composition and Improvisation (2 Credits)
SELECT 1 APPLIED MUSIC (4000 LEVEL)

- MVB MVJ MVP

Senior Year Spring Semester (14 credits)
SELECT 3 HRS OF ADVANCED MUSIC THEORY

- MUT 4421 18th Century Counterpoint
- MUT 4626 20th Century Counterpoint
- MUT 4311 Orchestration

TAKE 5 HOURS OF FREE ELECTIVES

- 3000/4000 Level

CHOOSE 3cr 3000/4000 Music Electives
MUN3143 Wind Symphony (1 Credit)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS4970 Senior Recital (0 Credits)

SELECT 1 APPLIED MUSIC (4000 LEVEL)

- MVB MVJ MVP


## Table of Contents

## Major: Biology <br> Concentration: Coastal Biology <br> Degree: Bachelor of Science

```
Prerequisites (31 credits)
Requires grades of \(C\) or above.
BSC1010C General Biology I (4 Credits)
Acceptable substitutes: PCB x011C, BSC x040/L, x010/L
BSC1011C General Biology II (4 Credits)
Acceptable substitutes: ZOO x010, BOT x010/L, BSC x041, BOT x013/L, BSC x011/L
CHEMISTRY 1 REQUIREMENT
```

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab

Acceptable substitutes: CHM x040 \& x041 or CHMX045C

## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitute: CHM x046C
ORGANIC 1 REQUIREMENT

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab

Acceptable substitutes: PHY 3053/L, 3048/L, CHM x210C
ORGANIC 2 REQUIREMENT

- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab

Acceptable substitutes: PHY x054/L, x049/L, CHM x211C
MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MAC x233, x253, x281, x241
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: STA x023, x024, x321, MAC x234, x282

Core Requirements (12 credits)
**The Department of Biology has specific requirements that must be completed as preparation for major courses. The following courses must be taken in addition to the prerequisites indicated above.Requires a grade of $C$ or above

BSC2012C General Biology III (4 Credits)

- Prereqs: BSC 1010C \& BSC 1011C

SELECT ONE SEQUENCE FROM:
Any Organic I \& II or Physics I \& II not completed as part of the prerequisites must be taken as core courses.

- PHY 2048 Calculus Physics I
- PHY 2048L Calculus Physics I Lab
- PHY 2049 Calculus Physics II
- PHY 2049L Calculus Physics II Lab Or
- PHY 2053 Algebra Physics I
- PHY 2053L Algebra Physics I Lab
- PHY 2054 Algebra Physics II
- PHY 2054L Algebra Physics II Lab

Or

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab

Students may take either CHM 2211 Organic Chemistry II \& CHM 2211L Organic Chemistry II lab or CHM 3120C Quantitative Analytical Chemistry.

- CHM 2210 Organic Chemistry I Lecture
- CHM 2210L Organic Chemistry I Lab
- CHM 3120C Quantitative Analytical Chemistry


## Major Requirements (18 credits)

Requires grades of $C$ or above. Courses must be taken in prerequisite order. Electronic approval must be obtained each semester for courses whose prerequisites are transfers. Please check the catalog course description section for prerequisites required for each course prior to registering. If one course is a prerequisite for another, the two may not be taken together. Students will be administratively withdrawn from courses if earned grades in prerequisite courses are less than a C.

```
PCB3043C Principles of Ecology (4 Credits)
```

Prereq: BSC 2012C
PCB3063C Genetics (4 Credits)
Prereqs: BSC 2012C and CHM 2210/2210L
PCB3023C Molecular and Cell Biology (4 Credits)
Prereqs: BSC 2012C and CHM 2210/2210L
PCB4713C Physiology (4 Credits)
Prereqs: PCB 3023C and PHY 2054/2054L
BSC4840 Senior Seminar Preparation (1 Credit)

- New course number is BSC4842
- Pre-req is a minimum of 11 credits of upper level Biology courses.


## BSC4947 Senior Seminar Practicum (1 Credit)

- Prereq: BSC4840 or BSC4842


## Major Electives (12 credits)

Major electives require a grade of C or above.

- One Biology elective must have a lab to complete this requirement.
- Students are encouraged to take BSC 4921 Biology Lecture Series as part of their major elective coursework. No more than 2 credits of BSC 4921 may be used in the Major Elective area.


## SELECT 1 BOTANY COURSE:

- BOT 4404C Marine Botany
- BOT 4503C Plant Anatomy \& Physiology
- BSC 4930 Special Topics in Biology

SELECT 1 ZOOLOGY COURSE:

- ZOO 4208C Coastal Invertebrate Biology
- ZOO 4454C Ichthyology
- ZOO 4462C Herpetology
- ZOO 4485 Biology of Marine Mammals

ZOO 4485L Biology of Marine Mammals Laboratory

- BSC 4930 Special Topics in Biology
- FAS 4354 Coastal Fisheries Management

SELECT 1 AQUATIC COURSE:

- PCB 4301C Limnology
- OCE 3008 Oceanography
- BSC 3263 Marine Biology
- BSC 4930 Special Topics in Biology

Free Electives (18 credits)
ELECTIVES 3000/4000 LEVEL
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Music Performance <br> Concentration: Piano Performance and Pedagogy <br> Degree: Bachelor of Music

Freshman Year Fall Semester (7 credits)

```
MUN2XXX Large Ensemble
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT1111 Theory I (3 Credits)
MUT1241 Theory I, Aural (1 Credit)
MVK1311 Applied Piano (2 Credits)
```

Freshman Year Spring Semester (7 credits)
MUN2XXX Large Ensemble
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT1112 Theory II (3 Credits)
MUT1242 Theory II, Aural (1 Credit)
MVK1311 Applied Piano (2 Credits)

Sophomore Year Fall Semester ( 10 credits)

```
MUH2501 CD- World Music (3 Credits)
MUN2XXX Large Ensemble
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT2116 Theory III (3 Credits)
MUT2246 Advanced Aural Theory (1 Credit)
MVK2321 Applied Piano (2 Credits)
```

Sophomore Year Spring Semester (7 credits)
MUN2XXX Large Ensemble
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT2117 Theory IV (3 Credits)
MUT2247 Advanced Aural Theory (1 Credit)
MVK2321 Applied Piano (2 Credits)

Junior Year Fall Semester (16 credits)
MUG3104 Basic Conducting (2 Credits)
MUH3211 Music History I (3 Credits)
MUN2510 Collaborative Piano I (1 Credit)
MUN3453 Piano Ensemble (1 Credit)
MUN3XXX Large Ensemble
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT4XXX Advanced Music Theory
MVK3331 Applied Piano (2 Credits)
MVK3631 Elementary Piano Pedagogy (3 Credits)

Junior Year Spring Semester (15 credits)
MUH3212 Music History II (3 Credits)
MUN3XXX Large Ensemble
MUN3453 Piano Ensemble (1 Credit)

MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS3340 Computer MIDI Score (2 Credits)
MUT4XXX Advanced Music Theory
MVK3331 Applied Piano (2 Credits)
MVK3632 Intermediate Piano Pedagogy (3 Credits)

Senior Year Fall Semester (16 credits)
CHOOSE 3 credits 3000/4000 electives

- select any 3000/4000 level free elective course

MUL4400 Piano Literature I (2 Credits)
MUN3XXX Large Ensemble
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT3611 Form and Analysis (3 Credits)
MVK4341 Applied Piano (2 Credits)
MVK4603 Pedagogy of Group Piano (3 Credits)
MVK4941 Internship in Piano Pedagogy I (2 Credits)

Senior Year Spring Semester (12 credits)
MUL4401 Piano Literature II (2 Credits)
MUN3XXX Large Ensemble
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS4970 Senior Recital (0 Credits)
MUT4650 Composition and Improvisation (2 Credits)
MVK4341 Applied Piano (2 Credits)
MVK4641 Advanced Piano Pedagogy (3 Credits)
MVK4942 Internship in Piano Ped II (2 Credits)

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## Major: Biology <br> Concentration: Coastal Environmental Science <br> Degree: Bachelor of Science

```
Prerequisites (31 credits)
    Requires grades of C or above.
            BSC1010C General Biology I (4 Credits)
                            Acceptable substitutes: PCB x011C, BSC x040/L, x010/L
BSC1011C General Biology II (4 Credits)
    Acceptable substitutes: ZOO x010, BOT x010/L, BSC x041, BOT x013/L, BSC x011/L
CHEMISTRY }1\mathrm{ REQUIREMENT
```

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab
Acceptable substitutes: CHM x040 \& x041 or CHMX045C
CHEMISTRY 2 REQUIREMENT
- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab
Acceptable substitute: CHM x046C
ORGANIC 1 REQUIREMENT
- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
Acceptable substitutes: PHY 3053/L, 3048/L, CHM x210C

ORGANIC 2 REQUIREMENT

- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab

Acceptable substitutes: PHY x054/L, x049/L, CHM x211C
MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MAC x233, x253, x281, x241
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: STA x023, x024, x321, MAC x234, x282

Core Requirements ( 15 credits)
**The Department of Biology has specific requirements that must be completed as preparation for major courses. The following courses must be taken in addition to the prerequisites indicated above. Requires a grade of C or above.

```
BSC2012C General Biology III (4 Credits)
```

- Prereqs: BSC 1010C \& BSC 1011C

STA3163 (GM)Statistical Methods I (4 Credits)
CHM3120C Quantitative Analytical Chemis (4 Credits)
CHS4615 Environmental Chemistry (3 Credits)

Major Requirements (24 credits)
Courses must be taken in prerequisite order. Electronic approval must be obtained each semester for courses whose prerequisites are transfers. Please check the catalog course description section for prerequisites required for each course prior to registering. If one course is
a prerequisite for another, the two may not be taken together. Students will be administratively withdrawn from courses if earned grades in prerequisite courses are less than a C.

```
PCB3043C Principles of Ecology (4 Credits)
    Prereq: BSC 2012C
PCB3063C Genetics (4 Credits)
    Prereqs: BSC 2012C and CHM 2210/2210L
OCE3008 Oceanography (3 Credits)
PCB4301C Limnology (4 Credits)
    Prereqs: PCB 3043C and CHM 2046/2046L
BSC3052 Conservation Biology (3 Credits)
    Prereq: BSC 2012C
SELECT 1 FROM THE FOLLOWING:
- Physiology
- Plant Anatomy \& Physiology
BSC4840 Senior Seminar Preparation (1 Credit)
BSC4947 Senior Seminar Practicum (1 Credit)
- Prereq: BSC 4840
```

Major Electives (21 credits)
Major electives require a grade of C or above
Always check the catalog course descriptions section to confirm approved biology electives.
SELECT 12 HRS FROM THE FOLLOWING:

- BSC 3263 Marine Biology
- BOT 4404C Marine Botany
- BSC 4054 Environmental Toxicology
- BSC 4905 Directed Independent Study
- MCB 3020C Microbial Biology
- ZOO 4485 Biology of Marine Mammals
- ZOO 4485L Biology of Marine Mammals Laboratory
- BSC 4930 Special Topics in Biology
- BSC 4921 Biology Lecture Series
- FAS 4354 Coastal Fisheries Management


## SELECT 9 HRS FROM THE FOLLOWING:

- GIS 3043 Intro to Geographic Information Systems
- ECP 3451 Law, Economics and Public Policy
- POS 4167 Urban Policy and Planning
- SPC 4064 Public Speaking for Professionals
- PHI 3640 Environmental Ethics
- GEO 3370 Conservation of Natural Resources
- STA 3164 Statistical Methods II

Recommended General Education Courses:

- STA 2014 Statistics
- PHI 2100 Reasoning \& Critical Thinking
- ECO 2013 Macroeconomics
- MMC 2701 Communicating Across Cultures
- POS 2041 Intro to American Government


## Table of Contents

Major: Philosophy<br>Concentration: General Philosophical Studies<br>Degree: Bachelor of Arts

Major Requirements (18 credits)
Requires grades of $C$ or higher

```
PHH3100 Ancient Greek Philosophy (3 Credits)
PHH3400 Modern Philosophy (3 Credits)
PHI3601 Ethics (3 Credits)
SELECT ONE FROM THE FOLLOWING:
- PHI 3300 Introduction to Epistemology
- PHI 3500 Introduction to Metaphysics
PHI3130 (GM) Symbolic Logic (3 Credits)
    Or take another Logic course
    PHI (3000/4000)
PHI4935 Philosophy Seminar (3-4 Credits)
```

Major Electives (15 credits)
Students in the general philosophical studies track are free to select major electives from any philosophy courses offered by the program.
A minimum of 6 hours must be taken at the 4000 level.
No more than 15 hours of transfer credit may be used.
Only 3 hours of PHI 4905 may be used in the major.
Grades of $C$ or higher required in courses used toward the major.

- PHI 3120 The Greek Experience, PHI 3071 The Japanese Mind and PHI 3930 Germany Today or other foreign culture courses may not be used as electives in the philosophy major.

SELECT 3 COURSES AT 3000 LEVEL

- PHH/PHI/PHM/PHP

SELECT 2 COURSES AT 4000 LEVEL

- PHH/PHI/PHM/PHP

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Foreign Language/Foreign Cultures
All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of C or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a
placement exam. Students who place above the beginning level will satisfy this requirement by earning a " C " or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (4 credits)
ELECTIVES 4 HOURS (3000/4000)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Biology <br> Concentration: Ecology and Evolution Biology <br> Degree: Bachelor of Science

```
Prerequisites (31 credits)
    Requires grades of C or above.
            BSC1010C General Biology I (4 Credits)
                            Acceptable substitutes: PCB x011C, BSC x040/L, x010/L
BSC1011C General Biology II (4 Credits)
    Acceptable substitutes: ZOO x010, BOT x010/L, BSC x041, BOT x013/L, BSC x011/L
CHEMISTRY }1\mathrm{ REQUIREMENT
```

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab

Acceptable substitutes: CHM x040 \& x041 or CHMX045C

## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitute: CHM x046C
ORGANIC 1 REQUIREMENT

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab

Acceptable substitutes: PHY 3053/L, 3048/L, CHM x210C
ORGANIC 2 REQUIREMENT

- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab

Acceptable substitutes: PHY x054/L, x049/L, CHM x211C
MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MAC x233, x253, x281, x241
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: STA x023, x024, x321, MAC x234, x282

Core Requirements (12 credits)
**The Department of Biology has specific requirements that must be completed as preparation for major courses. The following courses must be taken in addition to the prerequisites indicated above.Requires a grade of C or above

BSC2012C General Biology III (4 Credits)

- Prereqs: BSC 1010C \& BSC 1011C

SELECT ONE SEQUENCE FROM:
Any Organic I \& II or Physics I \& II not completed as part of the prerequisites must be taken as core courses.

- PHY 2048 Calculus Physics I
- PHY 2048L Calculus Physics I Lab
- PHY 2049 Calculus Physics II
- PHY 2049L Calculus Physics II Lab Or
- PHY 2053 Algebra Physics I
- PHY 2053L Algebra Physics I Lab
- PHY 2054 Algebra Physics II
- PHY 2054L Algebra Physics II Lab

Or

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab

Students may take either CHM 2211 Organic Chemistry II \& CHM 2211L Organic Chemistry II lab or CHM 3120C Quantitative Analytical Chemistry.

- CHM 2210 Organic Chemistry I Lecture
- CHM 2210L Organic Chemistry I Lab
- CHM 3120C Quantitative Analytical Chemistry


## Major Requirements (18 credits)

Requires grades of $C$ or above. Courses must be taken in prerequisite order. Electronic approval must be obtained each semester for courses whose prerequisites are transfers. Please check the catalog course description section for prerequisites required for each course prior to registering. If one course is a prerequisite for another, the two may not be taken together. Students will be administratively withdrawn from courses if earned grades in prerequisite courses are less than a C.

```
PCB3043C Principles of Ecology (4 Credits)
```

Prereq: BSC 2012C
PCB3063C Genetics (4 Credits)
Prereqs: BSC 2012C and CHM 2210/2210L
PCB3023C Molecular and Cell Biology (4 Credits)
Prereqs: BSC 2012C and CHM 2210/2210L
PCB4713C Physiology (4 Credits)
Prereqs: PCB 3023C and PHY 2054/2054L
BSC4840 Senior Seminar Preparation (1 Credit)

- New course number is BSC4842
- Pre-req is a minimum of 11 credits of upper level Biology courses.


## BSC4947 Senior Seminar Practicum (1 Credit)

- Prereq: BSC4840 or BSC4842


## Major Electives (11 credits)

Major electives require a grade of C or above. Students are encouraged to take BSC 4921
Biology Lecture Series as part of their major elective coursework. No more than 2 credits of BSC 4921 may be used in the Major Elective area.

PCB4674 Evolution (3 Credits)
SELECT 1 ADVANCED ECOLOGY COURSE:

- MCB 4603C Microbial Ecology
- PCB 4301C Limnology

SELECT 1 SURVEY COURSE:

- ZOO 3717C Comparative Vertebrate Anatomy
- ZOO 4208C Coastal Invertebrate Biology
- ZOO 4234C Parasitology
- ZOO 4454C Ichthyology
- ZOO 4462C Herpetology
- ZOO 4823C General Entomology
- MCB 3020C Microbial Biology

BOT 4404C Marine Botany

- BOT 3712C Plant Systematics \& Evolution
- PCB 4253C Developmental Biology
- ZOO 4485 Biology of Marine Mammals
- ZOO 4485L Biology of Marine Mammals Laboratory
- BSC 4930 Special Topics in Biology
- FAS 4354 Coastal Fisheries Management
- BSC 4022 Biology of Aging

Free Electives (19 credits)
ELECTIVES 3000/4000 LEVEL
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Philosophy <br> Concentration: Historical \& Comparative Studi <br> Degree: Bachelor of Arts

Major Requirements (18 credits)
Requires grades of $C$ or higher
PHH3100 Ancient Greek Philosophy (3 Credits)
PHH3400 Modern Philosophy (3 Credits)
PHI3601 Ethics (3 Credits)
SELECT ONE FROM THE FOLLOWING:

- PHI 3300 Introduction to Epistemology
- PHI 3500 Introduction to Metaphysics

PHI3130 (GM) Symbolic Logic (3 Credits)
Or take another Logic course PHI (3000/4000)

PHI4935 Philosophy Seminar (3-4 Credits)

Major Electives (15 credits)
Select 12 hours from the following track courses. The remaining 3 hours may be selected from the track or any other approved philosophy course except foreign culture courses.
At least 6 hours of electives must be at the 4000 level.
No more than 15 hours of transfer credit may be used.
Only 3 hours of PHI 4905 may be used in the major.
Grades of $C$ or higher required in courses used toward the major.

- PHI 3120 The Greek Experience, PHI 3071 The Japanese and PHI 3930 Germany Today or other foreign culture courses may not be used as electives in the philosophy major.

SELECT 4 FROM THE FOLLOWING:

- PHI 3664 Ethics East \& West
- PHI 3930 ST: Philosophy
- PHI 3931 ST: East/West
- PHI 3935 ST: Ancient Greek Philosophy
- PHI 4930 ST: Philosophy
- PHI 4905 Directed Individual Study
- PHH 3104 Socrates \& Sophists
- PHH 3500 19th Century Philosophy
- PHH 3811 Philosophy/Zen Buddhism
- PHH 3820 (FC) Chinese Philosophy
- PHH 4121 Ancient Greek Ethics
- PHH 4601 20th Contemporary Philosophy
- PHH 4620 20th Century Philo Anglo-American Tradition
- PHM 3500 Philosophy of History
- PHP 3700 Pragmatism

SELECT 1 ADDITIONAL 3000/4000 COURSE

- PHH/PHI/PHM/PHP

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last

60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.


## FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (4 credits)
ELECTIVES 4 HOURS (3000/4000)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

Major: Biology<br>Concentration: Medical Laboratory Sciences<br>Degree: Bachelor of Science

```
Prerequisites (35 credits)
    Requires grade of C or above
BSC1010C General Biology I (4 Credits)
    Acceptable substitutes: BSCx010/L, BSCx011C, BSCx011/L PCBx011C, PCBx011/L,
    PCBx013C, PCBx013/L, ZOOx010/L
BSC2085C Human Anatomy and Physiology I (4 Credits)
    Acceptable substitutes: BSCx085/L, BSCx093C, BSCx093/L, ZOOx733C,ZOOx731C,
    PCBx063/L, PCBx510C, PCBx510/L
BSC2086C Human Anatomy & Physiology II (4 Credits)
    Acceptable substitutes: BSCx2086/L, BSCx094C, BSCx094/L, PCBx702/L,
    PCBx703C, PCBx703/L, PCBx134C, PCBx134/L
CHEMISTRY }1\mathrm{ REQUIREMENT
```

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab Acceptable substitutes: CHMx040C \& CHMx041 or CHM2045C

CHEMISTRY. II Requirement

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab Acceptable substitutes: CHMx2046C


## ORGANIC I REQUIREMENT

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab Acceptable substitutions: CHMx210C


## ORGANIC II REQUIREMENT

- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab Acceptable substitutes: CHMx211C

MCB2010C Microbiology (4 Credits)
Acceptable substitutes:MCBx013C, MCBx013/L, MCBx020C, MCBx020/L, MCBx023C, MCBx023/L

STA2014 (GM)Elem Statistics-Health/SS (3 Credits)
Acceptable substitutes: STAx022, STAx023, STAx024, STAx321

Core Requirements (8 credits)
The Department of Biology has specific requirements that must be completed as preparation for major courses. The following courses must be taken in addition to the prerequisites indicated above. Requires a grade of C or above.

MCB4021C Molecular Biology Techniques (4 Credits)
PCB3023C Molecular and Cell Biology (4 Credits)

Major Requirements (50 credits)
Requires grades of $C$ or above in prerequisite courses and a minimum cumulative GPA of 2.75.
Students must complete prerequisites and acceptance into the MLS program. Electronic approval must be obtained for non MLS accepted majors. Students will be administratively withdrawn from courses if earned grades in prerequisite courses are less than a C.

```
MLS3220 Biological Fluid Analysis (2 Credits)
MLS4191 Molecular Diagnostics (2 Credits)
MLS4550C Immunohematology and Transfus (4 Credits)
MLS4308C Hematology and Hemostasis (4 Credits)
IHS3203 Management and Leadership (2 Credits)
MLS4505 Clinical Immunology (3 Credits)
MLS4462 Diagnostic Virology, Mycology (3 Credits)
MLS4460C Diagnostic Bacteriology (4 Credits)
MLS4627 Clinical Biochemistry (3 Credits)
IHS4938 Senior Seminar for Medical Lab (1 Credit)
MLS4821C Microbiology Practicum
MLS4826C Immunology Practicum
MLS4823C Immunohematology Practicum
MLS4822C Hematology Practicum
MLS4820C Biochemistry Practicum
```


## Table of Contents

Major: Philosophy<br>Concentration: Legal-Political-Social Studies<br>Degree: Bachelor of Arts

Major Requirements (18 credits)
Requires grades of $C$ or higher

```
PHH3100 Ancient Greek Philosophy (3 Credits)
PHH3400 Modern Philosophy (3 Credits)
PHI3601 Ethics (3 Credits)
SELECT ONE FROM THE FOLLOWING:
- PHI 3300 Introduction to Epistemology
- PHI 3500 Introduction to Metaphysics
PHI3130 (GM) Symbolic Logic (3 Credits)
Or take another Logic course PHI (3000/4000)
PHI4935 Philosophy Seminar (3-4 Credits)
```

Major Electives (15 credits)
Select at least 12 hours from the following track courses. The remaining 3 hours may be selected from the track or any other approved philosophy course except the foreign culture courses.
At least 6 hours of electives must be at the 4000 level.
No more than 15 hours of transfer credit may be used.
Only 3 hours of PHI 4905 may be used in the major.
Grades of $C$ or higher required in courses used toward the major.

- PHI 3120 The Greek Experience, PHI 3071 The Japanese Mind and PHI 3930 Germany Today or other foreign culture courses may not be used as electives in the philosophy major.


## SELECT 4 FROM THE FOLLOWING:

- PHI 3632 Ethics of Sex \& Gender
- PHI 3670 Moral Conflict
- PHI 3930 ST: Philosophy
- PHI 4420 Philosophy of Social Sciences
- PHI 4905 Directed Individual Study
- PHI 4930 Topics in Philosophy
- PHM 3050 Ethical Issues/Death \& Dying
- PHM 3100 Social Philosophy
- PHM 3304 Political Philosophy
- PHM 3362 Global Justice
- PHM 3361 Philosophy of Democracy
- PHM 3400 Philosophy of Law
- PHM 4340 Contemporary Political Philosophy

SELECT 1 ADDITIONAL 3000/4000 COURSE

- PHH/PHI/PHM/PHP

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is
beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of C or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.


## Free Electives (4 credits)

ELECTIVES 4 HOURS (3000/4000)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

Major: Biology<br>Concentration: Molecular/Cell Bio. \& Biotech<br>Degree: Bachelor of Science

```
Prerequisites (31 credits)
Requires grades of \(C\) or above.
BSC1010C General Biology I (4 Credits)
Acceptable substitutes: PCB x011C, BSC x040/L, x010/L
BSC1011C General Biology II (4 Credits)
Acceptable substitutes: ZOO x010, BOT x010/L, BSC x041, BOT x013/L, BSC x011/L
CHEMISTRY 1 REQUIREMENT
```

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab

Acceptable substitutes: CHM x040 \& x041 or CHMX045C

## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitute: CHM x046C
ORGANIC 1 REQUIREMENT

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab

Acceptable substitutes: PHY 3053/L, 3048/L, CHM x210C
ORGANIC 2 REQUIREMENT

- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab

Acceptable substitutes: PHY x054/L, x049/L, CHM x211C
MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MAC x233, x253, x281, x241
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: STA x023, x024, x321, MAC x234, x282

Core Requirements (12 credits)
**The Department of Biology has specific requirements that must be completed as preparation for major courses. The following courses must be taken in addition to the prerequisites indicated above.Requires a grade of $C$ or above

BSC2012C General Biology III (4 Credits)

- Prereqs: BSC 1010C \& BSC 1011C

SELECT ONE SEQUENCE FROM:
Any Organic I \& II or Physics I \& II not completed as part of the prerequisites must be taken as core courses.

- PHY 2048 Calculus Physics I
- PHY 2048L Calculus Physics I Lab
- PHY 2049 Calculus Physics II
- PHY 2049L Calculus Physics II Lab Or
- PHY 2053 Algebra Physics I
- PHY 2053L Algebra Physics I Lab
- PHY 2054 Algebra Physics II
- PHY 2054L Algebra Physics II Lab

Or

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab

Students may take either CHM 2211 Organic Chemistry II \& CHM 2211L Organic Chemistry II lab or CHM 3120C Quantitative Analytical Chemistry.

- CHM 2210 Organic Chemistry I Lecture
- CHM 2210L Organic Chemistry I Lab
- CHM 3120C Quantitative Analytical Chemistry

Major Requirements (18 credits)
Requires grades of $C$ or above. Courses must be taken in prerequisite order. Electronic approval must be obtained each semester for courses whose prerequisites are transfers. Please check the catalog course description section for prerequisites required for each course prior to registering. If one course is a prerequisite for another, the two may not be taken together. Students will be administratively withdrawn from courses if earned grades in prerequisite courses are less than a C.

```
PCB3043C Principles of Ecology (4 Credits)
```

Prereq: BSC 2012C
PCB3063C Genetics (4 Credits)
Prereqs: BSC 2012C and CHM 2210/2210L
PCB3023C Molecular and Cell Biology (4 Credits)
Prereqs: BSC 2012C and CHM 2210/2210L
PCB4713C Physiology (4 Credits)
Prereqs: PCB 3023C and PHY 2054/2054L
BSC4840 Senior Seminar Preparation (1 Credit)

- New course number is BSC4842
- Pre-req is a minimum of 11 credits of upper level Biology courses.


## BSC4947 Senior Seminar Practicum (1 Credit)

- Prereq: BSC4840 or BSC4842


## Major Electives (11 credits)

Major electives require a grade of C or above.

- One Biology elective must have a lab to complete this requirement. Students are encouraged to take BSC 4921 Biology Lecture Series as part of their major elective coursework. No more than 2 credits of BSC 4921 may be used in the Major Elective area.


## BCH4024 Mol Biol Biochem (3 Credits)

- Students can take BCH4024 Molecular Biology and Biochemistry (Prerequisite: PCB 3023C) \& BCH4024L Molecular Biology and Biochemistry Lab or BCH4033 Biochemistry (Prerequisite: CHM3120C and CHM2211/L)

BCH4024L Mol Biol Biochem Lab (1 Credit)
SELECT 1 BIOTECHNIQUES COURSE:

- ZOO 4753C Histology
- MCB 4021C Molecular Biology Techniques

SELECT 1 ADV. MOLECULAR/CELL COURSE:

- PCB 4067C Molecular Basis of Inheritance
- PCB 4234 Biology of Cancer
- PCB 4233 Immunology
- PCB 4805 Endocrinology
- PCB 4843 Cellular \& Molecular Neuroscience
- MCB 3020C Microbial Biology
- MCB 4503 Virology
- BSC 4930 Special Topics in Biology
- BSC 4022 Biology of Aging

Free Electives (19 credits)
ELECTIVES 3000/4000 LEVEL
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

Major: Philosophy<br>Concentration: Literary \& Cultural Studies<br>Degree: Bachelor of Arts

Major Requirements (18 credits)
Requires grades of $C$ or higher
PHH3100 Ancient Greek Philosophy (3 Credits)
PHH3400 Modern Philosophy (3 Credits)
PHI3601 Ethics (3 Credits)
SELECT ONE FROM THE FOLLOWING:

- PHI 3300 Introduction to Epistemology
- PHI 3500 Introduction to Metaphysics

PHI3130 (GM) Symbolic Logic (3 Credits)
Or take another Logic course PHI (3000/4000)

PHI4935 Philosophy Seminar (3-4 Credits)

Major Electives (15 credits)
Select at least 12 hours from the following track courses. The remaining three hours may be selected from the track or any other approved philosophy course except the foreign culture courses.
At least 6 hours of electives must be at the 4000 level.
No more than 15 hours of transfer credit may be used.
Only 3 hours of PHI 4905 may be used in the major.
Grades of C or higher required in courses used

- PHI 3120 The Greek Experience, PHI 3071 The Japanese Mind and PHI 3930 Germany Today or other foreign culture courses may not be used as electives in the philosophy major.


## SELECT 4 COURSES FROM THE FOLLOWING:

- PHI 3643 Ethics \& Literature
- PHI 3684 The Art of Living
- PHI 3700 Philosophy of Religion
- PHI 3800 Aesthetics
- PHI 3880 Philosophy of Film
- PHI 3881 Philosophy of Music
- PHI 3930 ST: Philosophy
- PHI 3931 ST: East \& West
- PHI 4220 Philosophy of Language
- PHI 4930 Topics in Philosophy
- PHH 3811 Philosophy of Zen Buddhism
- PHM 3020 Philosophy of Love \& Sex
- PHP 3786 Existentialism

SELECT 1 ADDITIONAL 3000/4000 COURSE

- PHH/PHI/PHM/PHP

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last

60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.


## FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (4 credits)
ELECTIVES 4 HOURS (3000/4000)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Chemistry <br> Concentration: Materials Chemistry <br> Degree: Bachelor of Science

## Prerequisites (34 credits)

CHEMISTRY 1 REQUIREMENT

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab Acceptable substitutes: CHMX040 \& X041, or CHMX045C


## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitutes: CHMX046C
ORGANIC REQUIREMENT

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II lab

MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MACX281
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: MACX282
PHYSICS REQUIREMENT

- PHY 2048 Calc-Based Physics I
- PHY 2048L Calc-Based Physics I lab
- PHY 2049 Calc-Based Physics II
- PHY 2049L Calc-Based Physics II lab

Contextual Courses (10 credits)
COP2220 Computer Science I (3 Credits)
MAC2313 (GM) Calculus III (4 Credits)
MAP2302 (GM) Ordinary Differ Equations (3 Credits)

Major Requirements (42 credits)
CHM3120C Quantitative Analytical Chemis (4 Credits)
Prereqs: CHM 2045, CHM 2045L \& CHM 2046, CHM 2046L
BCH4033 Biochemistry (3 Credits)
Prereqs: CHM 2211, CHM 2211L \& CHM 3120C
CHM4410C Physical Chemistry I (4 Credits)
Prereqs: CHM 2046, CHM 2046L, PHY 2049, PHY 2049L \& MAC 2312
CHM4411C Physical Chemistry II (4 Credits)
Prereq: CHM 4410C
CHM3610 Inorganic Chemistry (3 Credits)
Prereq: CHM2211, CHM 3120C
CHM3610L Inorganic Chemistry Laboratory (1 Credit)
CHM4130C Modern Analytical Chemistry (4 Credits)
Prereqs: CHM 3120C \& CHM 4410C

CHM4931 Senior Seminar In Chemistry (1 Credit)
Offered Spring semester only
PHY3101 Modern Physics (3 Credits)
Prereq: PHY 2049
PHZ3113 Mathematical Physics (3 Credits)
Prereqs: PHY 2049 \& MAC2313, Co-Req MPA2302
PHY3424C Optics with Laboratory (4 Credits)
Prereqs: PHY 2049 \& MAC2313
PHY3722C Electronics for Scientists (4 Credits)
Prereqs: PHY 2049, PHY 2049L \& MAC2312
PHY4604 Quantum Mechanics (4 Credits)
Prereqs: PHY 3101, MAC 2313, \& MAP 2302

Major Electives (6 credits)
SELECT 4 HRS FROM THE FOLLOWING:

- CHM 4612 Advanced Inorganic Chemistry
- CHM 4627 Solid State Chemistry
- PHY 3404 Solid State Physics
- EML 3520C Material Science
- CHM 3260 Advanced Organic Chemistry

SELECT 2 HOURS FROM THE FOLLOWING:

- BCH 4033L - Biochemistry Lab
- CHS 4615L - Environmental Chemistry Lab
- CHM 4910 - Chemical Research

Free Electives (5 credits)
MAS 3105,PHI 4400, \& PHY 3101L recommended as free electives.
SELECT 5 HRS (3000/4000)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

Major: Philosophy<br>Concentration: Philosophy Advanced Studies<br>Degree: Bachelor of Arts

Major Requirements (18 credits)
Requires grades of $C$ or higher
PHH3100 Ancient Greek Philosophy (3 Credits)
PHH3400 Modern Philosophy (3 Credits)
PHI3601 Ethics (3 Credits)
SELECT ONE FROM THE FOLLOWING:

- PHI 3300 Introduction to Epistemology
- PHI 3500 Introduction to Metaphysics

PHI3130 (GM) Symbolic Logic (3 Credits)
Or take another Logic course PHI (3000/4000)

PHI4935 Philosophy Seminar (3-4 Credits)

Major Electives (15 credits)
Select 12 hours from the following track courses. The remaining three hours may be selected from the track or any other approved philosophy course except foreign culture.
No more than 15 hrs of transfer credit may be used.
Only 3 hours of PHI 4905 may be used in the major.
Grades of C or higher required in courses used toward the major.

- PHI 3120 The Greek Experience, PHI 3071 The Japanese Mind and PHI 3930 Germany Today or other foreign culture courses may not be used as electives in the philosophy major.

SELECT 4 FROM THE FOLLOWING:

- PHH 4121 Ancient Greek Ethics
- PHI 4220 Philosophy of Language
- PHI 4300 Epistemology
- PHI 4320 Philosophy of Mind
- PHI 4400 Philosophy of Science
- PHI 4420 Philosophy of the Social Sciences
- PHI 4453 Philosophy of Psychiatry
- PHI 4500 Metaphysics
- PHI 4930 Topics in Philosophy
- PHM 4340 Contemporary Political Philosophy
- PHP 4410 Kant
- PHP 4782 Phenomenology

SELECT 1 ADDITIONAL 3000/4000 COURSE

- PHH/PHI/PHM/PHP


## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

ELECTIVES 4 HOURS (3000/4000)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Chemistry <br> Concentration: Pre-Medical Professions <br> Degree: Bachelor of Science

Prerequisites (34 credits)
CHEMISTRY 1 REQUIREMENT

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab Acceptable substitutes: CHMX040 \& X041, or CHMX045C


## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitutes: CHMX046C
ORGANIC REQUIREMENT

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II lab

MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MACX281
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: MACX282
PHYSICS REQUIREMENT

- PHY 2048 Calc-Based Physics I
- PHY 2048L Calc-Based Physics I lab
- PHY 2049 Calc-Based Physics II
- PHY 2049L Calc-Based Physics II lab

Contextual Courses (12 credits)
BSC1010C General Biology I (4 Credits)
BSC1011C General Biology II (4 Credits)
BSC2012C General Biology III (4 Credits)

Major Requirements (25 credits)
CHM3120C Quantitative Analytical Chemis (4 Credits)
Prereqs: CHM 2045, CHM 2045L \& CHM 2046, CHM 2046L
BCH4033 Biochemistry (3 Credits)
Prereqs: CHM 2211, CHM 2211L \& CHM 3120C
BCH4033L Biochemistry Lab (1 Credit)
CHM4410C Physical Chemistry I (4 Credits)
Prereqs: CHM 2046, CHM 2046L, PHY 2049, PHY 2049L \& MAC 2312
CHM4411C Physical Chemistry II (4 Credits)
Prereq: CHM 4410C
CHM3610 Inorganic Chemistry (3 Credits)
Prereq: CHM 2211, CHM 3120C
CHM3610L Inorganic Chemistry Laboratory (1 Credit)
CHM4130C Modern Analytical Chemistry (4 Credits)

Major Electives (23 credits)
No more that 4 hours of CHM 4910 may be used towards the major electives.
SELECT 1 FROM THE FOLLOWING:

- CHM 3260 Advanced Organic Chemistry
- CHM 4473 Intro Quantum Chemistry
- CHM 4620 Advanced Inorganic Chemistry
- CHM 4627 Solid State Chemistry
- CHS 4615 Environmental Chemistry

SELECT_1 HOUR FROM THE FOLLOWING:

- CHS 4615L Environmental Chemistry Lab
- CHM 4910 Chemical Research

SELECT 19 HRS FROM THE FOLLOWING:
(Must not have been taken for above catagories)

- CHM 3260 Advanced Organic Chemistry
- CHM 4473 Intro Quantum Chemistry
- CHM 4620 Advanced Inorganic Chemistry
- CHM 4627 Solid State Chemistry
- CHM 4910 Chemical Research
- CHM 4930 ST: Chemistry
- CHM 4930 Colloids and Surfaces
- CHM 4930 Chemical Informatics
- CHS 4615 Environmental Chemistry
- CHS 4615L Environmental Chemistry Lab
- PCB 3023C Molecular and Cell Biology
- PCB 3063C Genetics
- MCB 3020C Microbial Biology

Free Electives (2 credits)
MAC 2313, MAS 3105 and PHI 4400 recommended as free electives.
SELECT 2 HRS (3000/4000)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Philosophy <br> Concentration: Studies in Applied Ethics <br> Degree: Bachelor of Arts

Major Requirements (18 credits)
Requires grades of $C$ or higher
PHH3100 Ancient Greek Philosophy (3 Credits)
PHH3400 Modern Philosophy (3 Credits)
PHI3601 Ethics (3 Credits)
SELECT ONE FROM THE FOLLOWING:

- PHI 3300 Introduction to Epistemology
- PHI 3500 Introduction to Metaphysics

PHI3130 (GM) Symbolic Logic (3 Credits)
Or take another Logic course PHI (3000/4000)

PHI4935 Philosophy Seminar (3-4 Credits)

Major Electives (15 credits)
Select 12 hours from the following track courses. The remaining 3 hours may be selected from the track or any other approved philosophy course except foreign culture courses.
At least 6 hours of electives must be at the 4000 level.
No more than 15 hours of transfer credit may be used.
Only 3 hours of PHI 4905 may be used in the major.
Grades of $C$ or higher required in courses used toward the major.

- PHI 3120 The Greek Experience, PHI 3071 The Japanese Mind. and PHI 3930 Germany Today or other foreign culture courses may not be used as electives in the philosophy major.


## SELECT 4 FROM THE FOLLOWING:

- PHI 3633 Bioethics
- PHI 3640 Environmental Ethics
- PHI 3641 Business Ethics
- PHI 3670 Moral Conflict
- PHI 3684 The Art of Living
- PHI 3930 ST: Philosophy
- PHI 4453 Philosophy of Psychiatry
- PHI 4674 Lies \& Self Deception
- PHI 4905 Directed Individual Study
- PHI 4930 Topics in Philosophy
- PHM 3050 Ethical Issues/Death \& Dying
- PHM 3100 Social Philosophy
- PHM 3304 Political Philosophy
- PHM 3362 Global Justice
- PHM 3400 Philosophy of Law

SELECT 1 ADDITIONAL 3000/4000 COURSE

- PHH/PHI/PHM/PHP

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.

See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Foreign Language/Foreign Cultures
All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.


## FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (4 credits)

## ELECTIVES 4 HOURS (3000/4000)

This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Chemistry <br> Degree: Bachelor of Science

Prerequisites (34 credits)

## CHEMISTRY 1 REQUIREMENT

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab

Acceptable substitutes: CHMX040 \& X041, or CHMX045C

## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitutes: CHMX046C
ORGANIC REQUIREMENT

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II lab

MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MACX281
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: MACX282
PHYSICS REQUIREMENT

- PHY 2048 Calc-Based Physics I
- PHY 2048L Calc-Based Physics I lab
- PHY 2049 Calc-Based Physics II
- PHY 2049L Calc-Based Physics II lab

Contextual Courses ( 8 credits)
Please note that beginning Fall 2010, MAP 2302 Ordinary Differential Equations will no longer be a contextual requirement.

BSC1010C General Biology I (4 Credits)
MAC2313 (GM) Calculus III (4 Credits)

Major Requirements ( 24 credits)
CHM3120C Quantitative Analytical Chemis (4 Credits)
Prereqs: CHM 2045, CHM 2045L \& CHM 2046, CHM 2046L
BCH4033 Biochemistry (3 Credits)
Prereqs: CHM 2211, CHM 2211L \& CHM 3120C
CHM4410C Physical Chemistry I (4 Credits)
Prereqs: CHM 2046, CHM 2046L, PHY 2049/L \& MAC 2312
CHM4411C Physical Chemistry II (4 Credits)
Prereq: CHM 4410C
CHM3610 Inorganic Chemistry (3 Credits)
Prereq: CHM 2211 and CHM 3120C
CHM3610L Inorganic Chemistry Laboratory (1 Credit)
CHM4130C Modern Analytical Chemistry (4 Credits)
Prereqs: CHM 3120C \& CHM 4410C

Major Electives ( 15 credits)
No more than 4 hours of CHM 4910 may be used towards the major electives. CHM 4473 or PHY 4604 recommended for students preparing for graduate school in chemistry.

SELECT 1 FROM THE FOLLOWING:

- CHM 3260 Advanced Organic Chemistry
- CHS 4615 Environmental Chemistry
- CHM 4473 Intro Quantum Chemistry
- CHM 4612 Advanced Inorganic Chemistry
- CHM 4627 Solid State Chemistry


## _SELECT 2 CREDITS FROM THE FOLLOWING:

- BCH 4033L Biochemistry Lab
- CHS 4615L Environmental Chemistry Lab
- CHM 4910 Chemical Research


## SELECT 10 HRS FROM THE FOLLOWING:

(Must not have been taken from the above categories)

- CHM 3260 Advanced Organic Chemistry
- BCH 4033L Biochemistry Lab
- CHS 4615 Environmental Chemistry
- CHS 4615L Environmental Chemistry Lab
- CHM 4910 Chemical Research
- CHM 4930 ST: Chemistry
- CHM 4930 Polymer Chemistry
- PHY 3101 Modern Physics
- PHY 3101L Modern Physics Lab
- PHY 3722C Electronics For Scientists
- CHM 4473 Intro Quantum Chemistry
- PHY 4604 Quantum Mechanics
- CHM 4612 Advanced Inorganic Chemistry
- CHM 4627 Solid State Chemistry

Free Electives (9 credits)
MAC 2313, MAS 3105 and PHI 4400 recommended as free electives.
SELECT 9 HRS (3000/4000)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Physics <br> Concentration: Astrophysics <br> Degree: Bachelor of Science

Prerequisites ( 30 credits)
CHEMISTRY 1 REQUIREMENT

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab Acceptable substitutes: (CHMX040 and CHMX041) or CHMX045C


## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitutes: CHMX046C
MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MACX281
Prereq: MAC 1147
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: MACX282
Prereq: MAC 2311
MAC2313 (GM) Calculus III (4 Credits)
Acceptable substitutes: MACX283
Prereq: MAC 2312
PHYSICS REQUIREMENT:

- PHY 2048 Calculus Physics I
- PHY 2048L Calculus Physics I Lab
- PHY 2049 Calculus Physics II
- PHY 2049L Calculus Physics II Lab

Major Requirements (39 credits)
Courses must be taken in prerequisite order. Electronic approval for courses requiring prerequisites must be obtained each registration. Grades of $C$ or above must be earned in all physics requirements.

PHY1024 Intro Phys for New Majors (1 Credit)
AST3217 Astrophysics I (4 Credits)
Prereq: PHY2049; Coreq: PHY3101
AST3402 Astrophysics II (4 Credits)
Prereq: AST3217
PHY3101 Modern Physics (3 Credits)
Prereq: PHY 2049; Coreq: MAC 2313
PHY3101L Modern Physics Lab (1 Credit)
Coreq: PHY 3101
PHZ3113 Mathematical Physics (3 Credits)
Prereq: PHY 2049 \& MAC 2313; Coreq: MAP 2302
PHY3220 Classical Mechanics (4 Credits)
Prereqs: PHY 2049 \& MAC 2313
Coreq: MAP 2302
PHY3424C Optics with Laboratory (4 Credits)

- Prereq: PHY 2049 and MAC 2313

PHY3320 Electricity and Magnetism (4 Credits)
Prereqs: PHY 2049 \& MAC 2313
PHY4604 Quantum Mechanics (4 Credits)
Prereqs: PHY 3101, MAC 2313 \& MAP 2302
PHY4523 Thermodyn and Statistical Mech (4 Credits)
Prereqs: PHY 3101, MAC 2313 \& MAP 2302
PHY4802L Advanced Physics Laboratory (2 Credits)
Prereq: PHY 3101L
PHY4910 Physics Research and Seminar (1 Credit)
Prereq: PHY 3101

Major Electives (3 credits)
SELECT ONE FROM THE FOLLOWING:

- PHY 3722C Electronics for Scientists
- PHZ 3404 Solid State Physics
- PHZ 4160 Adv Topics Physics
- PHZ 4303 Nuclear Physics

Contextual Courses (12 credits)
AST2002 Basic Astronomy (3 Credits)
COP2220 Computer Science I (3 Credits)
ESC2000 Earth Science (3 Credits)
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
Prereq: MAC 2312

Free Electives (6 credits)
SELECT 6 HRS (3000/4000 LEVEL)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Communication <br> Concentration: Advertising <br> Degree: Bachelor of Science

Informational Text
Grades of $C$ or higher are required in all Foundation and Major Courses

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Foundation (18 credits)
SPC2608 Fundamentals of Speech (3 Credits)
STA2023 (GM) Elem Statistics-Business (3 Credits)
ENC3250 (GW) Professional Communicatio (3 Credits)
- Students should select the sections listed for Advertising majors - ENC3250 G(W)Prof. Comm:Advertising
ECO2013 Principles of Macroeconomics (3 Credits)
ECO2023 Principles of Microeconomics (3 Credits)
MAR3023 Principles of Marketing (3 Credits)
- Prereqs: ECO2013 and ECO2023
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Prerequisites (18 credits)
Course cannot include ENC or LIT prefix courses. 18 hours of coursework outside the major and beyond the 36 hours of general education requirements.

SELECT 18 HRS OUTSIDE MAJOR

Major Requirements (19 credits)
MMC1004 Media Literacy (3 Credits)
MMC3105 Advanced Writing For The Media (3 Credits)

- Prereqs: MMC1004

MMC3200 Law and Ethics of Communicat (3 Credits)

- Prereqs: MMC1004, MMC3105

MMC3614 Media Theories and Effects (3 Credits)

- Prereqs: MMC1004, MMC3105

MMC4420 Mass Communications Research (3 Credits)

- Prereqs: MMC1004, MMC3105 and MMC3614

MMC3942 Pre Internship (1 Credit)
Prereqs: MMC1004, MMC 3105 and one of the following - ADV3008, PUR3000, or MMC4500; Junior or Senior standing as a Communicaton major; major GPA of 2.0 or higher. Coreq: Permission of Instructor

MMC4975 Internship Senior Project (3 Credits)
Prereqs: MMC1004, MMC 3200, MMC 3614, MMC 3105, Senior standing (at least 90 credits), at least 3 courses required in the student's concentration, and both a UNF and Major GPA of 2.0 or higher.

Major Electives (21 credits)
ADV3008 Principles of Advertising (3 Credits)

ADV3101 Advertising Creative Strategy (3 Credits)

- Prereqs: ADV 3008, MMC1004 \& MMC 3105

Prior to fall 2012 course title was Advertising Copywriting
ADV3203 Advertising Media Graphics (3 Credits)
ADV3300 Media Planning (3 Credits)

- Prereqs: ADV3008, MMC1004, MMC3105, and either MMC4420 or ADV3500

ADV4800 Advertising Campaigns (3 Credits)
Prereqs: ADV3008, ADV3101, MMC1004, MMC3105, ADV3203 and MMC4420 or ADV3500
SELECT 2 FROM THE FOLLOWING:

- ADV 3500 Advertising Research Methods Prereqs: MMC1004, MMC3105, and MMC3614
- ADV 3200C Advertising Design

Prereqs: MMC1004, MMC3105, ADV3008, ADV3101, ADV3300, ADV3203
Advertising Media Graphics

- PUR3000 Principles of Public Relations

Prereqs: MMC1004 and MMC3105

- MMC 3403 Political Advertising

Prereqs: MMC1004 and MMC3105

- MMC 4630 Understanding Emerging Media

Prereqs: MMC1004, MMC3105, and one of the following: PUR3000 or ADV3008 or MMC4500 History of Mass Communication

48 Upper Level Hours (48 credits)
In order to qualify to graduate with a Bachelor's degree from the College of Arts and Sciences you must earn a minimum of 48 upper level credits out of the total 120 degree applicable required credit hours. Upper level courses are numbered from 3000-4999. Dual Degree and Double Majors should consult their Advisor.

48 HOURS 48 upper level hours

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## Major: Physics <br> Concentration: Civil Engineering <br> Degree: Bachelor of Science

Prerequisites ( 30 credits)
CHEMISTRY 1 REQUIREMENT

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab Acceptable substitutes: (CHMX040 and CHMX041) or CHMX045C


## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitutes: CHMX046C
MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MACX281
Prereq: MAC 1147
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: MACX282
Prereq: MAC 2311
MAC2313 (GM) Calculus III (4 Credits)
Acceptable substitutes: MACX283
Prereq: MAC 2312
PHYSICS REQUIREMENT:

- PHY 2048 Calculus Physics I
- PHY 2048L Calculus Physics I Lab
- PHY 2049 Calculus Physics II
- PHY 2049L Calculus Physics II Lab


## Requisites (3 credits)

MAP2302 (GM) Ordinary Differ Equations (3 Credits)

Major Requirements (41 credits)
Grades of $C$ or higher required in all physics and engineering courses.
PHY1024 Intro Phys for New Majors (1 Credit)
PHY3101 Modern Physics (3 Credits)
Prereq: PHY 2049; Coreq: MAC 2313
PHY3101L Modern Physics Lab (1 Credit)
Coreq: PHY 3101
PHZ3113 Mathematical Physics (3 Credits)
Prereq: PHY 2049 \& MAC 2313 Coreq: MAP 2302
PHY3220 Classical Mechanics (4 Credits)
Prereqs: PHY 2049/L \& MAC 2312
Coreq: MAP 2302
PHY3320 Electricity and Magnetism (4 Credits)
Prereqs: PHY 2049 \& MAC 2313
PHY3722C Electronics for Scientists (4 Credits)
Prereqs: PHY 2049 \& MAC 2313
PHY4523 Thermodyn and Statistical Mech (4 Credits)

Prereqs: PHY 2049, MAC 2313 \& MAP 2302
PHY4802L Advanced Physics Laboratory (2 Credits)
Prereq: PHY 3101L
EGN3311 Statics (3 Credits)
EGN3202 Computer Aided Engineering (3 Credits)
CES3104C Mechanics of Materials (3 Credits)
CWR3201 Fluid Mechanics (3 Credits)

Major Electives (16 credits)
Grades of $C$ or above required in all engineering courses.
SELECT 16 HRS (3000/4000)

- CGN


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## Major: Communication

Concentration: Multimedia Journ. \& Production
Degree: Bachelor of Science

Informational Text
Grades of $C$ or higher are required in all Foundation and Major Courses

Foundation (6 credits)
SPC2608 Fundamentals of Speech (3 Credits)
STA2014 (GM)Elem Statistics-Health/SS (3 Credits)

Prerequisites (18 credits)
Course cannot include ENC or LIT prefix courses. 18 hours of coursework outside the major and beyond the 36 hours of general education requirements.

SELECT 18 HRS OUTSIDE MAJOR

Major Requirements (19 credits)
MMC1004 Media Literacy (3 Credits)
MMC3105 Advanced Writing For The Media (3 Credits)

- Prereqs: MMC1004

MMC3200 Law and Ethics of Communicat (3 Credits)

- Prereqs: MMC1004, MMC3105

MMC3614 Media Theories and Effects (3 Credits)

- Prereqs: MMC1004, MMC3105

MMC4420 Mass Communications Research (3 Credits)

- Prereqs: MMC1004, MMC3105 and MMC3614

MMC3942 Pre Internship (1 Credit)
Prereqs: MMC1004, MMC 3105 and one of the following - ADV3008, PUR3000, or MMC4500; Junior or Senior standing as a Communicaton major; major GPA of 2.0 or higher. Coreq: Permission of Instructor

MMC4975 Internship Senior Project (3 Credits)
Prereqs: MMC1004, MMC 3200, MMC 3614, MMC 3105, Senior standing (at least 90 credits), at least 3 courses required in the student's concentration, and both a UNF and Major GPA of 2.0 or higher.

Major Electives (21 credits)
Complete either the 9-credit Multimedia Journalism or 9-credit Multimedia Production Track listed below

MMC4500 History of Mass Communication (3 Credits) Prereqs:

- Prereqs: MMC 1004 \& MMC 3105

SELECT Multimedia Journalism Track

- JOU 3109 Multimedia Reporting
- Prereqs: MMC 1004, MMC 3105, MMC 4500
- JOU 3342 Multimedia Storytelling
- Prereqs: MMC 1004, MMC 3105, MMC 4500, JOU 3109
- JOU 4348 Advanced Multimedia Storytelling
- Prereqs:MMC 1004, MMC 3105, MMC 4500, JOU 3109, JOU 3342

SELECT_Multimedia Production Track

- RTV 3260 Single-camera Video Production
- Prereqs: MMC 1004, MMC 3105, MMC 4500
- RTV 3228 Multi-camera Video Production
- Prereqs: MMC 1004, MMC 3105, MMC 4500, RTV 3260
- RTV4221 Advanced Production
- Prereqs:MMC 1004, MMC 3105, MMC 4500, RTV 3260, RTV3228

CHOOSE 9 credits upper level courses

- Courses must be 3000 or 4000 level with the following prefix: JOU, RTV, MMC, COM, PUR, SPC and/or ADV.

48 Upper Level Hours (48 credits)
In order to qualify to graduate with a Bachelor's degree from the College of Arts and Sciences you must earn a minimum of 48 upper level credits out of the total 120 degree applicable required credit hours. Upper level courses are numbered from 3000-4999. Dual Degree and Double Majors should consult their Advisor.

48 HOURS 48 upper level hours

## Table of Contents

## Major: Physics <br> Concentration: Computing Emphasis <br> Degree: Bachelor of Science

Prerequisites ( 30 credits)
CHEMISTRY 1 REQUIREMENT

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab Acceptable substitutes: (CHMX040 and CHMX041) or CHMX045C


## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitutes: CHMX046C
MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MACX281
Prereq: MAC 1147
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: MACX282
Prereq: MAC 2311
MAC2313 (GM) Calculus III (4 Credits)
Acceptable substitutes: MACX283
Prereq: MAC 2312
PHYSICS REQUIREMENT:

- PHY 2048 Calculus Physics I
- PHY 2048L Calculus Physics I Lab
- PHY 2049 Calculus Physics II
- PHY 2049L Calculus Physics II Lab

Major Requirements (41 credits)
Courses must be taken in prerequisite order. Electronic approval for courses requiring prerequisites must be obtained each registration. Grades of $C$ or above must be earned in all physics requirements.

PHY1024 Intro Phys for New Majors (1 Credit)
PHY3101 Modern Physics (3 Credits)
Prereq: PHY 2049; Coreq: MAC 2313
PHY3101L Modern Physics Lab (1 Credit)
Coreq: PHY 3101
PHZ3113 Mathematical Physics (3 Credits)
Prereq: PHY 2049 \& MAC 2313 Coreq: MAP 2302
PHY3220 Classical Mechanics (4 Credits)
Prereqs: PHY 2049/L \& MAC 2312
Coreq: MAP 2302
PHY3320 Electricity and Magnetism (4 Credits)
Prereqs: PHY 2049 \& MAC 2313
PHY3424C Optics with Laboratory (4 Credits)

- Prereq: PHY 2049 and MAC 2313

PHY3722C Electronics for Scientists (4 Credits)
Prereqs: PHY 2049 \& MAC 2313

PHY4604 Quantum Mechanics (4 Credits)
Prereqs: PHY 3101, MAC 2313 \& MAP 2302
PHY4802L Advanced Physics Laboratory (2 Credits)
Prereq: PHY 3101L
COT3100 Computational Structures (3 Credits)
COP3530 Data Structures (4 Credits)
SELECT 1 FROM THE FOLLOWING:

- COP 3601 Introduction to System Software
- CDA 3101 Introduction to Computer Hardware

Contextual Courses (6 credits)
COP2220 Computer Science I (3 Credits)
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
Prereq: MAC 2312

Major Electives (13 credits)
Grades of $C$ or higher required in all computer science requirements and computer science electives.

SELECT 13 HOURS (3000/4000)

- COT COP CDA


## Table of Contents

## Major: Communication <br> Concentration: Public Relations <br> Degree: Bachelor of Science

Informational Text
Grades of $C$ or higher are required in all Foundation and Major Courses

Foundation (6 credits)
SPC2608 Fundamentals of Speech (3 Credits)
STA2014 (GM)Elem Statistics-Health/SS (3 Credits)

Prerequisites (18 credits)
Course cannot include ENC or LIT prefix courses. 18 hours of coursework outside the major and beyond the 36 hours of general education requirements.

SELECT 18 HRS OUTSIDE MAJOR

Major Requirements (19 credits)
MMC1004 Media Literacy (3 Credits)
MMC3105 Advanced Writing For The Media (3 Credits)

- Prereqs: MMC1004

MMC3200 Law and Ethics of Communicat (3 Credits)

- Prereqs: MMC1004, MMC3105

MMC3614 Media Theories and Effects (3 Credits)

- Prereqs: MMC1004, MMC3105

MMC4420 Mass Communications Research (3 Credits)

- Prereqs: MMC1004, MMC3105 and MMC3614

MMC3942 Pre Internship (1 Credit)
Prereqs: MMC1004, MMC 3105 and one of the following - ADV3008, PUR3000, or MMC4500; Junior or Senior standing as a Communicaton major; major GPA of 2.0 or higher. Coreq: Permission of Instructor

MMC4975 Internship Senior Project (3 Credits)
Prereqs: MMC1004, MMC 3200, MMC 3614, MMC 3105, Senior standing (at least 90 credits), at least 3 courses required in the student's concentration, and both a UNF and Major GPA of 2.0 or higher.

Major Electives (21 credits)
PUR3000 Principles of Pub Relations (3 Credits)
Prereqs: MMC1004, MMC3105
PUR3100 Public Relations Writing (3 Credits)
Prereqs: PUR 3000 MMC1004, \& MMC 3105
ADV3203 Advertising Media Graphics (3 Credits)
Prereqs: MMC1004 \& MMC3105
PUR4800 Public Relations Campaigns (3 Credits)
Prereqs: MMC1004, MMC 3105, PUR 3000, PUR 3100, \& PUR 4801
PUR4801 Public Relations Cases (3 Credits)
Prereqs: PUR 3000, MMC1004, \& MMC 3105

- PUR4400 3 Crisis Communication

Prereqs: PUR3000, MMC3105 \& MMC1004

- ADV3008 3 Principles of Advertising

Prereqs: PUR3000, MMC3105, \& MMC1004

- ADV3101 3 Advertising Creative Strategy (previous title Advertising Copywriting) Prereqs: ADV3008, ADV3203, MMC1004, \& MMC3105
- ADV 3200C Advertising Design Prereqs: ADV3008, ADV3101, ADV3300, ADV3203, MMC1004, \& MMC3105
- MMC3402 Political Advertising

Prereqs: MMC1004 \& MMC3105

- MMC4251 Creating Health Messages for Mass Media
- SPC4064 Public Speaking for Professionals
- MMC4630 Understanding Emerging Media Prereqs: MMC1004, MMC3105, and one of the following: PUR3000, ADV3008 or MMC4500
- PUR4450 3 Public Relations and Event Planning Prereqs: MMC1004, MMC3105, PUR3000, \& PUR 3100

48 Upper Level Hours (48 credits)
In order to qualify to graduate with a Bachelor's degree from the College of Arts and Sciences you must earn a minimum of 48 upper level credits out of the total 120 degree applicable required credit hours. Upper level courses are numbered from 3000-4999. Dual Degree and Double Majors should consult their Advisor.

48 HOURS 48 upper level hours

## Table of Contents

## Major: Physics <br> Concentration: Electrical Engineering <br> Degree: Bachelor of Science

Prerequisites ( 30 credits)
CHEMISTRY 1 REQUIREMENT

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab Acceptable substitutes: (CHMX040 and CHMX041) or CHMX045C


## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitutes: CHMX046C
MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MACX281
Prereq: MAC 1147
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: MACX282
Prereq: MAC 2311
MAC2313 (GM) Calculus III (4 Credits)
Acceptable substitutes: MACX283
Prereq: MAC 2312
PHYSICS REQUIREMENT:

- PHY 2048 Calculus Physics I
- PHY 2048L Calculus Physics I Lab
- PHY 2049 Calculus Physics II
- PHY 2049L Calculus Physics II Lab

Major Requirements (49 credits)
Courses must be taken in prerequisite order. Electronic approval for courses requiring prerequisites must be obtained each registration. Grades of $C$ or above must be earned in all physics requirements.

PHY1024 Intro Phys for New Majors (1 Credit)
PHY3101 Modern Physics (3 Credits)
Prereq: PHY 2049; Coreq: MAC 2313
PHY3101L Modern Physics Lab (1 Credit)
Coreq: PHY 3101
PHZ3113 Mathematical Physics (3 Credits)
Prereq: PHY 2049 \& MAC 2313; Coreq: MAP 2302
PHY3220 Classical Mechanics (4 Credits)
Prereqs: PHY 2049/L \& MAC 2312
Coreq: MAP 2302
PHY3320 Electricity and Magnetism (4 Credits)
Prereqs: PHY 2049 \& MAC 2313
PHY3424C Optics with Laboratory (4 Credits)

- Prereq: PHY 2049 and MAC 2313

PHY4604 Quantum Mechanics (4 Credits)
Prereqs: PHY 3101, MAC 2313 \& MAP 2302

PHY4802L Advanced Physics Laboratory (2 Credits)
Prereq: PHY 3101L
PHZ3404 Solid State Physics (3 Credits)
EEL3111 Circuit Analysis I (3 Credits)
EEL3112 Circuit Analysis II (3 Credits)
EEL3304 Electronic Circuits I (3 Credits)
EEL3303L Electrical Circuits Laboratory (1 Credit)
EEL4744C Microcontroller Applications (4 Credits)
SELECT 1 FROM THE FOLLOWING:

- CDA 3101 Introduction to Computer Hardware
- EEL 3701C Introduction to Digital Systems

SELECT 1 FROM THE FOLLOWING:

- EEL 3135 Signals \& Systems
- EEL 4309C Electronic Circuits II


## Contextual Courses ( 6 credits)

COP2220 Computer Science I (3 Credits)
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
Prereq: MAC 2312

Major Electives (5 credits)
Grades of $C$ or higher required in all engineering electives.
SELECT 5 HOURS @ 3000/4000 LEVEL

- EEL


## Table of Contents

## Major: Criminal Justice <br> Degree: Bachelor of Arts

Major Requirements (24 credits)
CCJ3023 Intro to Criminal Justice (3 Credits)
CCJ3014 Criminological Theory (3 Credits)
CCJ3700 Res Meth Crimin \& Crim Justice (3 Credits)
Prereq: STA 2014
CJJ3010 Juven Delin and Juven Justice (3 Credits)
CJL4310 Criminal Law and Procedures I (3 Credits)
CJE4017 Law Enforcement System/Process (3 Credits)
CJL4510 Court Systems And Processes (3 Credits)
CJC4015 Correctional Systems/Process (3 Credits)

## Major Electives (6 credits)

In-service students select 3 courses; non-service select 2 courses.
SELECT 2 CRIMINAL JUSTICE ELECTIVES

- CCJ 3932 ST: Criminal Justice
- CCJ 4283 Philosophy of Law \& Justice
- CCJ 4604 Crime \& Mental Illness
- CCJ 4662 Minorities \& Crime
- CJC 3410 Offender Treatment
- CCJ 4663 Women \& Crime
- CCJ 4664 White Collar Crime
- CCJ 4681 Family Violence
- CJE 4144 Security \& Society
- CCJ 4905 Directed Independent Study
- CCJ 4931 Controversial Legal Issues
- CCJ 4935 ST: Criminal Justice Administration
- CCJ 4938 ST: Criminology
- CJL 4315 Criminal Trials Seminar
- CCJ 4641 Organized Crime
- CJE 3281 Women in the Legal System
- CJE 4211 Hate Crimes
- CJC 4510 Punishment \& Society
- CJE 3232 Drugs \& Crime
- CJE 4270 Child Abuse
- CJL 4111 Criminal Law \& Procedures II
- SYP 3570 Deviance \& Social Control
- CCJ 3930 Criminal Justice Junior Seminar

Internships (6 credits)
Non-service Internship
Internship requires completion of all the following major requirements with a grade of C or above: CCJ 3700, CCJ 3023, CCJ 3014, CJL 4310, CJL 4510, CJE 4017, CJJ 3010 and CJC 4015.
Note: In-service students need departmental approval to waive the internship.
CCJ4939 Pre-Intern in Criminal Justice (3 Credits)
CCJ4940 Internship In Criminal Justice (3 Credits)

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.

See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Foreign Language/Foreign Cultures
All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (3 credits)
ELECTIVES 3 HRS (3000/4000)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Physics <br> Concentration: Materials Science <br> Degree: Bachelor of Science

Prerequisites ( 30 credits)
CHEMISTRY 1 REQUIREMENT

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab

Acceptable substitutes: (CHMX040 and CHMX041) or CHMX045C

## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitutes: CHMX046C
MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MACX281
Prereq: MAC 1147
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: MACX282
Prereq: MAC 2311
MAC2313 (GM) Calculus III (4 Credits)
Acceptable substitutes: MACX283
Prereq: MAC 2312
PHYSICS REQUIREMENT:

- PHY 2048 Calculus Physics I
- PHY 2048L Calculus Physics I Lab
- PHY 2049 Calculus Physics II
- PHY 2049L Calculus Physics II Lab

Contextual Courses (11 credits)
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
ORGANIC Organic Chemistry I\&II w/labs

- CHM2210 Organic Chemistry I
- CHM2210L Organic Chemistry I Lab
- CHM2211 Organic Chemistry II
- CHM2211L Organic Chemistry II Lab

Major Requirements (30 credits)
PHY1024 Intro Phys for New Majors (1 Credit)
EML3520C Material Science I (3 Credits)
PHY3101 Modern Physics (3 Credits)
PHY3101L Modern Physics Lab (1 Credit)
PHY3220 Classical Mechanics (4 Credits)
PHY3320 Electricity and Magnetism (4 Credits)
PHY3424 Optics (3 Credits)
PHY4523 Thermodyn and Statistical Mech (4 Credits)
PHY4604 Quantum Mechanics (4 Credits)
PHZ3113 Mathematical Physics (3 Credits)

Select 22 credits from the list below, no more than 3 credits may be lower level ( 2000 level)
SELECT 22 credits from list

- PHZ3404 Solid State Physics
- PHY4802L Advanced Physics Lab
- PHY4910 Physics Research \& Seminar
- PHY3722C Electronics for Scientists
- CHM4410C Physical Chemistry I
- CHM3120C Qualitative Analytical Chemistry
- CHM3610 Inorganic Chemistry
- CHM3610L Inorganic Chemistry Lab
- CHM4627 Solid State Chemistry
- EGN3311 Statics
- EGN3331 Strangth of Materials
- EML3100 Thermodynamics I
- EML3101 Thermodynamics II
- EML4930 Material Characterization
- EML4320C Integrated Design and Manufacturing
- EML4930 Microstructural Evolution
- COP2220 Computer Science I (intro to C)
- COP2551 Intro to OO Programming (Intro to Java)
- COP2010 Intro to V\&P Programming (Visual Basic)

Free Electives (16 credits)
SELECT 16 HRS (3000/4000 LEVEL)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

Free Electives (2 credits)
TAKE 3 hrs at the 3000/4000 level
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Economics

Degree: Bachelor of Arts

Prerequisites (6 credits)
Requires grades of C or above.
ECO2013 Principles of Macroeconomics (3 Credits)
ECO2023 Principles of Microeconomics (3 Credits)
or 2 courses with the ECO prefix

Major Requirements (15 credits)
ECO3421 Econometrics (3 Credits)
Prereq: ECO3411
ECO3101 Intermediate Microeconomics (3 Credits)
Prereq: ECO 2023
ECO3203 Intermediate Macroeconomics (3 Credits)
Prereq: ECO 2013 Coreq: ECO 3411
ECO3411 Business/Economic Statistics (3 Credits)
SELECT 1 INTERNATIONAL COURSE

- ECO 3704 International Trade Prereq: ECO 2023
- ECO 4713 International Monetary System Prereq: ECO 3203

Major Electives (9 credits)
A grade of $C$ or better is required in all economics courses.
SELECT 2 FROM: (3000/4000)

- ECO GEO ECP ECG

ECO 3632/ECO 3701/ECP 3704 may not be used in the major.

## SELECT 1 FROM THE FOLLOWING

- UNF study abroad courses approved by the department chair
- Economics course (3000/4000) taken abroad
- This requirement may be replaced with another 3 credit economics course (3000/4000 level) upon approval by the department chair in the case of extenuating circumstances.

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Foreign Language/Foreign Cultures
All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin,

Portuguese, Russian, or American Sign Language.

- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.


## FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (13 credits)
SELECT 16 HRS (3000/4000)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Physics <br> Concentration: Mechanical Engineering <br> Degree: Bachelor of Science

Prerequisites ( 30 credits)
CHEMISTRY 1 REQUIREMENT

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab Acceptable substitutes: (CHMX040 and CHMX041) or CHMX045C


## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitutes: CHMX046C
MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MACX281
Prereq: MAC 1147
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: MACX282
Prereq: MAC 2311
MAC2313 (GM) Calculus III (4 Credits)
Acceptable substitutes: MACX283
Prereq: MAC 2312
PHYSICS REQUIREMENT:

- PHY 2048 Calculus Physics I
- PHY 2048L Calculus Physics I Lab
- PHY 2049 Calculus Physics II
- PHY 2049L Calculus Physics II Lab

Requisites (3 credits)
MAP2302 (GM) Ordinary Differ Equations (3 Credits)

Major Requirements (47 credits)
Courses must be taken in prerequisite order. Electronic approval for courses requiring prerequisites must be obtained each registration. Grades of $C$ or above must be earned in all physics requirements.

PHY1024 Intro Phys for New Majors (1 Credit)
PHY3101 Modern Physics (3 Credits)
Prereq: PHY 2049; Coreq: MAC 2313
PHY3101L Modern Physics Lab (1 Credit)
Coreq: PHY 3101
PHZ3113 Mathematical Physics (3 Credits)
Prereq: PHY 2049 \& MAC 2313 Coreq: MAP 2302
PHY3220 Classical Mechanics (4 Credits)
Prereqs: PHY 2049/L \& MAC 2312
Coreq: MAP 2302
PHY3320 Electricity and Magnetism (4 Credits)
Prereqs: PHY 2049 \& MAC 2313
PHY3424C Optics with Laboratory (4 Credits)

- Prereq: PHY 2049 and MAC 2313

PHY3722C Electronics for Scientists (4 Credits)
Prereqs: PHY 2049 \& MAC 2313
PHY4523 Thermodyn and Statistical Mech (4 Credits)
Prereqs: PHY 2049, MAC 2313 \& MAP 2302
PHY4802L Advanced Physics Laboratory (2 Credits)
Prereq: PHY 3101L
EGN3311 Statics (3 Credits)
EGN3331 Strength of Materials (3 Credits)
EML3100 Thermodynamics I (3 Credits)
EGN3203 Modern Computational Methods (3 Credits)
EML3015 Fluids I (3 Credits)
EML4140 Heat Transfer (3 Credits)

Major Electives (6 credits)
Grades of $C$ or higher are required in all engineering electives.
SELECT 6 HRS @ 3000/4000 LEVEL

- EGN EML


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## Major: English <br> Concentration: Theater/Drama <br> Degree: Bachelor of Arts

Prerequisites (6 credits)
Requires grades of $C$ or above.
ENC1101 (GW) Rhetoric and Writing (3 Credits)

- Acceptable substitute: ENCXXXX

ENC1102 (GW) The Informed Writer (3 Credits)

- Acceptable substitute: ENCXXXX

Major Requirements (30 credits)
CATEGORY 1 (3 Credits)

- THE 2000 Theater Appreciation

CATEGORY 2 (3 credits)
Select one course in Literary Interpretation, Criticism, and/or Theory:

- ENG 4013 Approaches to Literary Interpretation
- LIT 3213 Art of Critical Reading

CATEGORY 3 (12 credits)
Select four courses in Literature in/as Performance:

- TPP 2100 Acting I
- TPP 3241 Performing Civil Rhetoric
- ENL 3333 Shakespeare
- THE 3110 History of Drama and Theater I
- THE 3111 History of Drama and Theater II
- THE 3170 Contemporary Drama and Theater
- THE 4524 Studies in Drama and Theater
- THE 4904 Independent Study in Drama and Theater
- TPP 4155 Theater Production: Performance
- TPP 4923 Theater Production: Behind-the-Scenes
- THE 4935 Special Topics in Drama and Theater
- CRW 3424 Playwrights' Project
- Other courses with permission of department chair

CATEGORY 4 (3 credits) Select one course:

- LIT 4934 Senior Seminar
- THE 4905 Independent Study in Drama and Theater
- THE 4935 Special Topics in Drama and Theater

CATEGORY 5 (9 credits)

- Any three upper-level (3000 or 4000 level) Department of English course that are not being used to satisfy a requirement for one of the Department of English minors.

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college
of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.


## Free Electives (7 credits)

SELECT 7 HRS 3000/4000 FREE ELECTIVES
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Physics <br> Concentration: Pre-Medical Physics <br> Degree: Bachelor of Science

## Prerequisites (30 credits)

CHEMISTRY 1 REQUIREMENT

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab Acceptable substitutes: (CHMX040 and CHMX041) or CHMX045C


## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitutes: CHMX046C
MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MACX281
Prereq: MAC 1147
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: MACX282
Prereq: MAC 2311
MAC2313 (GM) Calculus III (4 Credits)
Acceptable substitutes: MACX283
Prereq: MAC 2312
PHYSICS REQUIREMENT:

- PHY 2048 Calculus Physics I
- PHY 2048L Calculus Physics I Lab
- PHY 2049 Calculus Physics II
- PHY 2049L Calculus Physics II Lab

Contextual Courses (19 credits)
BSC1010C General Biology I (4 Credits)
BSC1011C General Biology II (4 Credits)
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
ORGANIC REQUIREMENT

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I lab
- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II lab

Major Requirements (32 credits)
Courses must be taken in prerequisite order. Grades of $C$ or above must be earned in all physics requirements.

PHY1024 Intro Phys for New Majors (1 Credit)
PHY3101 Modern Physics (3 Credits)
Prereq: PHY 2049; Coreq: MAC 2313
PHY3101L Modern Physics Lab (1 Credit)
Coreq: PHY 3101
PHZ3113 Mathematical Physics (3 Credits)
Prereq: PHY 2049 \& MAC 2313; Coreq: MAP 2302

- Prereq: PHY 2049 and MAC 2313

PHY3722C Electronics for Scientists (4 Credits)
Prereqs: PHY 2049 \& MAC 2313
PHY4604 Quantum Mechanics (4 Credits)
Prereqs: PHY 3101, MAC 2313 \& MAP 2302
PHY4523 Thermodyn and Statistical Mech (4 Credits)
Prereqs: PHY 3101, MAC 2313 \& MAP 2302

Major Electives (12 credits)
SELECT 12-13 HRS FROM THE FOLLOWING:

- BSC 2012C Biology III
- BCH 4033 Biochemistry
- BCH 4033L Biochemistry lab
- CHM 3120C Quantitative Analytical Chemistry
- PCB 3023C Molecular \& Cell Biology
- PCB 3063C Genetics
- PHY 4802L Advanced Physics Lab
- PHY 4910 Physics Research \& Seminar
- PHZ 3404 Solid State Physics
- PHZ 4303 Nuclear Physics

Free Electives (4 credits)
SELECT 4 HRS (3000/4000 LEVEL)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: English

Degree: Bachelor of Arts

## Prerequisites (6 credits)

Requires grades of $C$ or above.
ENC1101 (GW) Rhetoric and Writing (3 Credits)

- Acceptable substitute: ENCXXXX

ENC1102 (GW) The Informed Writer (3 Credits)

- Acceptable substitute: ENCXXXX

Major Requirements (30 credits)
Select 2 literary period courses: (one of the courses must be selected from the early period and the other from the later period of either American or British literature).

CATEGORY 1 (6 credits)
Select two courses in Literary Interpretation, Criticism, and/or Theory:

- ENG 4013 Approaches to Literary Interpretation
- ENG 4930 Special Topics in Criticism and Theory
- FIL 3006 Analyzing Film
- LIT 3213 Art of Critical Reading
- LIT 3420 Approaches to Literature: Psychology

CATEGORY 2 (6 credits)
Select two courses from either category A or category B: Category A, Writing Studies:

- ENC 3250 Professional Communication
- ENC 3310 Writing Prose
- ENC 3930 Topics in Composition
- ENC 4930 Advanced Topics in Composition
- HIS 3051 Craft of the Historian
- Other courses with permission of department chair

Category B, Literature in/as Performance:

- Select any 3000 level or 4000 level courses with the following prefixes: CRW, FIL, THE, TPP
- Other courses with permission of department chair


## CATEGORY 3 (3 credits)

- LIT 4934 Senior Seminar

CATEGORY 4 (15 Credits)

- Any five upper-level (3000 or 4000 level) Department of English course that are not used to satisfy the requirements for Category 1, Category 2, and/or Category 3; and that are not used to satisfy a requirement for one of the Department of English minors.


## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last

60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.


## FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (7 credits)
SELECT 7 HRS 3000/4000 FREE ELECTIVES
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Physics <br> Degree: Bachelor of Science

## Prerequisites (30 credits)

## CHEMISTRY 1 REQUIREMENT

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab Acceptable substitutes: (CHMX040 and CHMX041) or CHMX045C


## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

Acceptable substitutes: CHMX046C
MAC2311 (GM) Calculus I (4 Credits)
Acceptable substitutes: MACX281
Prereq: MAC 1147
MAC2312 (GM) Calculus II (4 Credits)
Acceptable substitutes: MACX282
Prereq: MAC 2311
MAC2313 (GM) Calculus III (4 Credits)
Acceptable substitutes: MACX283
Prereq: MAC 2312
PHYSICS REQUIREMENT:

- PHY 2048 Calculus Physics I
- PHY 2048L Calculus Physics I Lab
- PHY 2049 Calculus Physics II
- PHY 2049L Calculus Physics II Lab

Major Requirements (35 credits)
Courses must be taken in prerequisite order. Electronic approval for courses requiring prerequisites must be obtained each registration. Grades of $C$ or above must be earned in all physics requirements.

PHY1024 Intro Phys for New Majors (1 Credit)
PHY3101 Modern Physics (3 Credits)
Prereq: PHY 2049/L; Coreq: MAC 2313
PHY3101L Modern Physics Lab (1 Credit)
Coreq: PHY 3101
PHZ3113 Mathematical Physics (3 Credits)
Prereq: PHY 2049/L \& MAC 2313; Coreq: MAP 2302
PHY3220 Classical Mechanics (4 Credits)
Prereqs: PHY 2049/L \& MAC 2312
Coreq: MAP 2302
PHY3320 Electricity and Magnetism (4 Credits)
Prereqs: PHY 2049/L \& MAC 2313
PHY3424C Optics with Laboratory (4 Credits)

- Prereq: PHY 2049 and MAC 2313

PHY3722C Electronics for Scientists (4 Credits)
Prereqs: PHY 2049/L \& MAC 2313

PHY4604 Quantum Mechanics (4 Credits)
Prereqs: PHY 3101/L, MAC 2313 \& MAP 2302
PHY4523 Thermodyn and Statistical Mech (4 Credits)
Prereqs: PHY 3101, MAC 2313 \& MAP 2302
PHY4802L Advanced Physics Laboratory (2 Credits)
Prereq: PHY 3101L
PHY4910 Physics Research and Seminar (1 Credit)
Prereq: PHY 3101

Major Electives (6 credits)
SELECT TWO FROM THE FOLLOWING:

- AST 3217 Astrophysics
- AST 3402 Astrophysics II
- PHZ 3404 Solid State Physics
- PHZ 4160 Adv Topics Physics
- PHZ 4303 Nuclear Physics

Contextual Courses (6 credits)
COP2220 Computer Science I (3 Credits)
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
Prereq: MAC 2312

Free Electives (16 credits)
SELECT 16 HRS (3000/4000 LEVEL)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Fine Arts <br> Concentration: Ceramics <br> Degree: Bachelor of Fine Arts

Prerequisites (24 credits)
Requires grades of $C$ or above.
Note: Students should continually take art history courses with other art courses to properly prepare for the major.

```
ARH2050 Art History Survey I (3 Credits)
ARH2051 Art History Survey II (3 Credits)
ART1201C Two-Dimensional Design (3 Credits)
    Acceptable substitute: ART XXXX 2D
ART2203C Three-Dimensional Design (3 Credits)
    Acceptable substitute: ART X202, ART XXXX Design II, 3D
ART1300C Drawing I (3 Credits)
ART2301C Drawing II (3 Credits)
    Acceptable substitutes: ARTX330, X205, X310, X305
SELECT 2 INTRO MEDIA COURSES
    1000/2000 Level
        - ART
```

Major Requirements (39 credits)

Prerequisite policy: Courses must be taken in prerequisite order. Electronic approval must be obtained for courses requiring prerequisites each semester. Please check the catalog course description section for prerequisites required for each course prior to registering. Prerequisites are strictly enforced by the department and registrar.
First day attendance rule: Any student who misses the first day without advanced notice to the department chairperson will be administratively withdrawn from that course.
Grades of $C$ or above required in all major courses.
PGY2401C Black and White Photography (3 Credits)
ART2605C Basic Computer Images (3 Credits)
ART2500C Painting Fundamentals (3 Credits)
Prereq: ART 1300C and ART 2301C
ART2330C Figure Drawing I (3 Credits)
Prereq: ART 1300C \& ART 2301C
ARH4800 Aesthetics of Art (3 Credits)
SELECT 2 ART HIST COURSES (3000/4000)

- ARH

ART3786C Ceramics (3 Credits)
ART3765C Intermediate Ceramics (3 Credits)
ART4768C Advanced Ceramics (3 Credits)
ART3707C Sculpture I (3 Credits)
Prereq: ART3707C
ART4929C Senior Project (3 Credits)
ART4965C Fine Arts Portfolio (3 Credits)

## Major Electives (15 credits)

Please refer to the course description for repeatability information.
SELECT 5 CERAMIC ELECTIVES FROM:

- ART 3786C Ceramics
- ART 3765C Intermediate Ceramics
- ART 4768C Advanced Ceramics
- ART 4788C Ceramic Aesthetic

SELECT 9 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Political Science <br> Concentration: American Politics <br> Degree: Bachelor of Arts

Prerequisites (6 credits)
Requires grades of $C$ or above.
POS2041 Intro to American Government (3 Credits)
SELECT 1 INTRO POLI SCIENCE COURSE
Any 2 introductory political science courses with POS, CPO, or INR prefixes can be used

Core Requirements (18 credits)
Requires grades of $C$ or above.
POS3733 Research Design for Poli Sci (3 Credits)
POS3734 Research Analysis for Poli Sci (3 Credits)
POT3003 Political Thought and Action (3 Credits)
PAD4003 Public Administration (3 Credits)
SELECT 1 COURSE (3000/4000 LEVEL)

- POS 3413 American Presidency
- POS 3424 Congress \& the Legislative Process
- POS 3606 U.S. Supreme Court
- CPO 4014 Comparative Politics: Frameworks for Analysis
- INR 4603 International Relations:Frameworks for Analysis
- INR 4703 International Political Economy

POS4930 Senior Seminar: Political Sci (3 Credits)

Prereqs: ALL 5 courses listed in the Core Requirement must be completed with a "C" or better grade and senior status

Major Electives (12 credits)
Select courses that have not been used in above areas.
SELECT 4 COURSES FROM BELOW:

- INR 3084 Terrorism Today
- INR 4334 American Defense in the Age of Mass Destruction
- POS 3114 Issues in State \& Local Government
- POS 3142 Politics \& Policy in Urban Government
- POS 3235 Government \& Mass Media
- POS 3413 The American Presidency
- POS 3424 Congress \& the Legislative Process
- POS 3444 Parties, Campaigns \& Elections
- POS 3606 The U.S. Supreme Court
- POS 3679 Mock Trial
- POS 3691 The American Legal System
- POS 3931 ST: Politics
- POS 3676 Great American Trials
- POS 3615 Soul of the Court
- POS 4033 Controversial Political Issues
- POS 4173 Southern Politics
- POS 4463 Interest Groups \& American Democracy
- POS 4608 Constitutional Law I: Powers and Constraints
- POS 4624 Constitutional Law II: Civil Rights \& Liberties
- POS 4905 Directed Individual Study
- POS 4932 ST: Politics \& Public Administration
- POS 4945 Internship/Field Experience
- POT 3075 American Politics \& Popular Culture
- PUP 3053 American Political Economy

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Foreign Language/Foreign Cultures
All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (7 credits)
SELECT 7 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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Major: Fine Arts<br>Concentration: Graphic Design \& Digital Media<br>Degree: Bachelor of Fine Arts

Prerequisites ( 24 credits)
Grades of $C$ or above required in all prerequisites.

```
ART1300C Drawing I (3 Credits)
ART2301C Drawing II (3 Credits)
ART1201C Two-Dimensional Design (3 Credits)
ART2203C Three-Dimensional Design (3 Credits)
ARH2050 Art History Survey I (3 Credits)
ARH2051 Art History Survey II (3 Credits)
ART2605C Basic Computer Images (3 Credits)
GRA2190C Introduction to Graphic Design (3 Credits)
    Prereqs: ART 2605C, ART 1300C, ART 2301C, ART 1201C & ART 2203C
    (Apply to Limited Access Program)
```

Major Requirements (42 credits)

Grades of C or above required in all major requirements and major electives.
Students may not enroll in 3000/4000 level major requirements or major electives until after they have successfully completed the portfolio review and been selected for the major.
Prerequisite policy: Courses must be taken in prerequisite order. Please check the catalog course description section for prerequisites required for major courses prior to registering. If a course is a prerequisite for another, the courses may not be taken at the same time. Prerequisites are strictly enforced by the faculty and registrar.
First day attendance rule: Any student who misses the first day without advance notice to the department chairperson will be administratively withdrawn from that course.

PGY1800C Digital Photography for Design (3 Credits)
Prereq: ART 2605C
GRA2203C Prepress Production (3 Credits)
Prereq: GRA 2190C
GRA3880C Illustration (3 Credits)
Prereq: GRA 2190C
ARH4724 Graphic Design History (3 Credits)
GRA3183C Typography Studio (3 Credits)
Prereqs: GRA 2190C
GRA3833C Motion Graphics (3 Credits)
Prereqs: PGY 1800C \& GRA 3880C
GRA3523C Introduction to Web Design (3 Credits)
Prereqs: PGY 1800C \& GRA 3880C
GRA3118C Publication Design (3 Credits)
Prereqs: GRA 3183C \& GRA 2203C
GRA3512C Corporate Identity (3 Credits)
Prereqs: GRA 3183C \& GRA 2203C
GRA4137C Advanced Web Design (3 Credits)
Prereq: GRA 3523C
GRA4186C Senior Design Studio (3 Credits)
Prereqs: GRA 3183C \& GRA 3512C
GRA4423 Business of Graphic Design (3 Credits)
Prereqs: Senior Status \& GRA 3512C
GRA4189C Graphic Design Portfolio (3 Credits)
Prereqs: Senior Status \& GRA 4186C

- ARH

Major Electives (12 credits)
Note: Students may not take any independent study courses in any Fine Arts area without prior, written approval of the department chairperson.

SELECT 4 COURSES (3000/4000) FROM:

- GRA ART ARH PGY

Free Electives (6 credits)
SELECT 6 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Political Science <br> Concentration: General Political Science <br> Degree: Bachelor of Arts

Prerequisites (6 credits)
Requires grades of $C$ or above.
POS2041 Intro to American Government (3 Credits)
SELECT 1 INTRO POLI SCIENCE COURSE
Any 2 introductory political science courses with POS, CPO, or INR prefixes can be used

Core Requirements (18 credits)
Requires grades of $C$ or above.
POS3733 Research Design for Poli Sci (3 Credits)
POS3734 Research Analysis for Poli Sci (3 Credits)
POT3003 Political Thought and Action (3 Credits)
PAD4003 Public Administration (3 Credits)
SELECT 1 COURSE (3000/4000 LEVEL)

- POS 3413 American Presidency
- POS 3424 Congress \& the Legislative Process
- POS 3606 U.S. Supreme Court
- CPO 4014 Comparative Politics: Frameworks for Analysis
- INR 4603 International Relations:Frameworks for Analysis
- INR 4703 International Political Economy

POS4930 Senior Seminar: Political Sci (3 Credits)
Prereqs: ALL 5 courses listed in the Core Requirement must be completed with a "C" or better grade and senior status

Major Electives (12 credits)
Select courses that have not been used in the above areas.
SELECT 4 FROM THE FOLLOWING:

- CPO 3123 (FC) Politics \& Society in Britain/Ireland
- CPO 3213 (FC) Politics \& Society in Sub-Saharan Africa
- CPO 3151 (FC) Politics \& Society in France
- CPO 3351 (FC) Politics \& Society in Brazil
- CPO 3643 (FC) Politics \& Society in Russia
- CPO 4014 Framework Analysis in Comparative Politics
- CPO 4034 Third World Politics
- CPO 4930 ST: Comparative Politics
- INR 3084 Terrorism Today
- INR 3016 Global Issues in Contemporary Politics
- INR 3443 International Law \& Organization
- INR 4334 American Defense in the Age of Mass Destruction
- INR 4603 Framework Analysis in International Relations
- INR 4703 International Political Economy
- PAD 4027 Issues in Public Management
- PAD 4832 Issues in Comparative Public Administration
- PUP 3603 Medical Politics \& Policy
- POS 3114 Issues in State \& Local Government
- POS 3142 Politics \& Policy in Urban Government
- POS 3235 Government \& Mass Media
- POS 3413 American Presidency
- POS 3424 Congress and the Legislative Process
- POS 3444 Parties, Campaigns, \& Elections
- POS 3606 The U.S. Supreme Court
- POS 3679 Mock Trial
- POS 3691 American Legal System
- POS 3931 ST: Politics
- POS 4033 Controversial Political Issues
- POS 4167 Urban Policy \& Planning
- POS 4173 Southern Politics
- POS 4463 Interest Groups \& American Democracy
- POS 4608 Constitutional Law I: Powers and Constraints
- POS 4624 Constitutional Law II: Civil Rights \& Liberties
- POS 4905 Directed Individual Study
- POS 4932 ST: Politics \& Public Administration
- POS 3615 Soul of the Court
- POS 3676 Great American Trials
- POS 4093 Politics of the War on Drugs
- POS 4945 Internship/Field Experience
- POT 3515 Good \& Evil Political Perspective
- POT 3075 American Politics \& Popular Culture
- POT 4314 Democratic Theory
- PUP 3053 American Political Economy
- PUP 4003 Policy Making Process
- PUP 4506 Evolution, Society, \& Politics
- PUP 4612 Politics of Social Programs


## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.


## FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.

A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

SELECT 7 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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Major: Fine Arts<br>Concentration: Painting, Drawing, Printmaking<br>Degree: Bachelor of Fine Arts

Prerequisites (24 credits)
Requires grades of $C$ or above.
Note: Students should continually take art history courses with other art courses to properly
prepare for the major.
ARH2050 Art History Survey I (3 Credits)
ARH2051 Art History Survey II (3 Credits)
ART1201C Two-Dimensional Design (3 Credits)
ART2203C Three-Dimensional Design (3 Credits)
Acceptable substitute: ART X202
ART1300C Drawing I (3 Credits)
ART2301C Drawing II (3 Credits)
Acceptable substitutes: ARTX330, X205, X310, X305

```
SELECT 2 INTRO MEDIA COURSES
```

1000/2000 Level

- ART
- Art Department Strongly Recommends: ART 2400C Intro to Printmaking ART 1205C Color Theory

Major Requirements ( 36 credits)
Prerequisite policy: Courses must be taken in prerequisite order. Please check the catalog course descriptions for prerequisites required for each course prior to registering. If a course is a prerequisite for another, they may not be taken at the same time. Prerequisites are strictly enforced by the faculty and registrar.
First day attendance rule: Any student who misses the first day without advanced notice to the department chairperson will be administratively withdrawn from that course.

```
ART2330C Figure Drawing I (3 Credits)
    Prereq: ART 1300C & ART 2301C
ART2500C Painting Fundamentals (3 Credits)
    Prereq: one drawing course
ART3420C Lithography Printmaking I (3 Credits)
    Prereq: ART 2400C
ART3442C Intaglio Printmaking I (3 Credits)
    Prereq: ART 2400C
ART3504C Painting Studio (3 Credits)
    Prereq: ART 2500C
ART3332C Figure Drawing II (3 Credits)
    Prereq: ART 3504C
ART3560C Figurative Painting (3 Credits)
    Prereq: ART 2500C & ART 3332C
ART4805C Painting and Drawing Research (3 Credits)
    Prereq: ART 3332C & ART 3504C
ART4965C Fine Arts Portfolio (3 Credits)
SELECT 3 ART HISTORYS (3000/4000)
```

    - ARH
    SELECT 6 FROM: (3000/4000)

- ART


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## Major: Political Science <br> Concentration: Int'l Rel/Comparative Politics <br> Degree: Bachelor of Arts

Prerequisites (6 credits)
Requires grades of $C$ or above.
POS2041 Intro to American Government (3 Credits)
SELECT 1 INTRO POLI SCIENCE COURSE
Any 2 introductory political science courses with POS, CPO, or INR prefixes can be used

Core Requirements (18 credits)
Requires grades of $C$ or above.
POS3733 Research Design for Poli Sci (3 Credits)
POS3734 Research Analysis for Poli Sci (3 Credits)
POT3003 Political Thought and Action (3 Credits)
PAD4003 Public Administration (3 Credits)
SELECT 1 COURSE (3000/4000 LEVEL)

- POS 3413 American Presidency
- POS 3424 Congress \& the Legislative Process
- POS 3606 U.S. Supreme Court
- CPO 4014 Comparative Politics: Frameworks for Analysis
- INR 4603 International Relations:Frameworks for Analysis
- INR 4703 International Political Economy

POS4930 Senior Seminar: Political Sci (3 Credits)
Prereqs: ALL 5 courses listed in the Core Requirement must be completed with a "C" or better grade and senior status

Major Electives (12 credits)
Select courses that have not been used in above areas.
SELECT 4 FROM THE FOLLOWING:

- CPO 3123 (FC) Politics \& Society in Britain/Ireland
- CPO 3151 (FC) Politics \& Society in France
- CPO 3351 (FC) Politics \& Society in Brazil
- CPO 3643 (FC) Politics \& Society in Russia
- CPO 3213 (FC) Politics \& Society in Sub-Saharan Africa
- CPO 4014 Framework Analysis for Comparative Politics
- CPO 4034 Third World Politics
- CPO 4930 ST: Comparative Politics
- INR 3016 Global Issues in Contemporary Politics
- INR 3084 Terrorism Today
- INR 3248 (FC) US Caribbean/Central American Relations
- INR 3443 International Law \& Organization
- INR 4334 American Defense in the Age of Mass Destruction
- INR 4603 Framework Analysis for International Relations
- INR 4703 International Political Economy
- PAD 4832 Issues in Comparative Public Administration
- POS 3931 ST: Political Science
- POS 4905 Directed Individual Study
- POS 4932 ST: Political Science/Public Administration
- POS 4945 Internship/Field Experience


## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (7 credits)
SELECT 7 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Fine Arts <br> Concentration: Photography <br> Degree: Bachelor of Fine Arts

## Prerequisites (24 credits)

Requires grades of $C$ or above.
Note: Students should continually take art history courses with other art courses to properly prepare for the major.

```
ARH2050 Art History Survey I (3 Credits)
ARH2051 Art History Survey II (3 Credits)
ART1201C Two-Dimensional Design (3 Credits)
Acceptable substitute: ART XXXX 2D
ART2203C Three-Dimensional Design (3 Credits)
Acceptable substitute: ART X202, ART XXXX Design II, 3D
```


## ART1300C Drawing I (3 Credits)

```
ART2301C Drawing II (3 Credits)
Acceptable substitutes: ARTX330, X205, X310, X305
```


## SELECT 2 INTRO MEDIA COURSES

```
1000/2000 Level
- ART
```

Major Requirements (42 credits)
Prerequisites policy: Courses must be taken in prerequisite order. Please check the catalog course descriptions for prerequisites required for each course prior to registering. Prerequisites are enforced by the faculty and registrar.
First day attendance rule: Any student who misses the first day without advanced notice to the department chairperson will be administratively withdrawn from that course.
All major requirements and major electives must be completed with grades of $C$ or above.

```
ART2330C Figure Drawing I (3 Credits)
    Prereqs: ART 1300C & ART 2301C
ARH4710 History of Photography (3 Credits)
PGY4006C Studies: History of Photo (3 Credits)
- Prereq: PGY 4710
ARH4801 Art Criticism (3 Credits)
Prereqs: ARH 2050, ARH 2051, \& one 3000/4000 level ARH
PGY2401C Black and White Photography (3 Credits)
PGY4643C Personal Documents (3 Credits)
Prereq: PGY2401C, PGY3410C and PGY3820C
PGY3410C Intermediate Photography (3 Credits)
Prereq: PGY 2401C
PGY3820C Digital Imaging Photo Majors (3 Credits)
Prereq: PGY 2401C
PGY3153C Color Photography (3 Credits)
Prereq: PGY 2401C, PGY 3410C and PGY 3820C
PGY4443C Alternative Photo Processes (3 Credits)
Prereqs: PGY 3410C \& PGY 3820C
PGY4205C Advanced Lighting Principles (3 Credits)
Prereq: PGY 2401C, PGY3513C and PGY 3410C
PGY3234C Fashion Photography as Art (3 Credits)
Prereq: PGY 2401C, PGY3513C and PGY 3410C
```

PGY4476C Senior Photo Portfolio (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- ARH 4800 Aesthetics of Art
- ARH 3410 Modern European Art I
- ARH 3319 Art of Michelangelo

Major Electives (12 credits)
SELECT 4 FROM THE FOLLOWING:

- ARH 3130 The Art \& Architecture of Ancient Greece
- ARH 3150 The Art \& Architecture of Ancient Rome
- ARH 3302 Italian Renaissance Art
- ARH 3410 Modern European Art
- PGY 4213C Classic Black \& White Portraiture
- ART 3707C Sculpture Process
- ART 3786C Ceramics
- ART 3442C Intaglio Printmaking I
- PGY 3930C Special Topics in Photography

Free Electives (6 credits)
SELECT 6 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Political Science <br> Concentration: Pol Sci Fast Track MPA <br> Degree: Bachelor of Arts

Prerequisites (6 credits)
Requires grades of $C$ or above.
POS2041 Intro to American Government (3 Credits)
SELECT 1 INTRO POLI SCIENCE COURSE
Any 2 introductory political science courses with POS, CPO, or INR prefixes can be used

Core Requirements (18 credits)
A GPA of 3.0 or higher required for the fast track option.
POS3713 Political Inquiry And Analysis (3 Credits)
POT3003 Political Thought and Action (3 Credits)
PAD4003 Public Administration (3 Credits)
POS4930 Senior Seminar: Political Sci (3 Credits)
Offered Fall and Spring only
Prereqs: POS 3713, POT 3003, PAD 3003 and senior status

## SELECT 1 COURSE FROM THE FOLLOWING:

- POS 3413 American Presidency
- POS 3424 Congress \& the Legislative Process
- POS 3606 US Supreme Court \& Other Federal Courts

SELECT 1 FROM THE FOLLOWING:

- CPO 4014 Comparative Politics: Frameworks for Analysis
- INR 4703 International Political Economy
- INR 4603 International Relations: Frameworks for Analysis

Major Electives (12 credits)
Select 4 from below or 3 from below and 1 additional core courses or select 2 from below and 2 additional core courses.

## SELECT 4 COURSES:

- INR 3084 Terrorism Today
- INR 4334 American Defense in the Age of Mass Destruction
- PAD 4832 Issues in Comparative Public Administration
- POS 3114 Issues in State \& Local Government
- POS 3142 Politics \& Policy in Urban Government
- POS 3235 Government \& Mass Media
- POS 3413 American Presidency
- POS 3424 Congress \& The Legislative Process
- POS 3444 Parties, Campaigns \& Elections
- POS 3606 The U.S. Supreme Court
- POS 3691 American Legal System
- POS 3931 ST: Politics
- PUP 3603 Medical Politics \& Policy
- POS 4033 Controversial Political Issues
- POS 4093 Politics of the War on Drugs
- POS 4173 Southern Politics
- POS 4233 Public Opinion \& Interest Groups
- POS 4463 Interest Groups \& American Democracy
- POS 4608 Constitutional Law I: Powers and Constraints
- POS 4624 Constitutional Law II: Civil Rights \& Liberties
- POS 4905 Directed Individual Study
- POS 4932 ST: Political Science \& Public Administration
- POS 4945 Internship/Field Experience
- POT 3075 American Politics \& Popular Culture
- POT 3515 Good \& Evil: Political Perspectives
- POT 4314 Democratic Theory
- PUP 3053 American Political Economy
- PUP 4003 Policy Making Process
- PUP 4506 Evolution, Society \& Politics
- PUP 4612 Politics of Social Programs

Minor Required
A Public Administration minor is required for this major.*
Minors are generally completed during the last 60 hrs of your program. See your advisor to declare this minor.

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (10 credits)
SELECT 10 HRS (3000/4000 LEVEL)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Fine Arts <br> Concentration: Sculpture <br> Degree: Bachelor of Fine Arts

Prerequisites (24 credits)
Requires grades of $C$ or above.
Note: Students should continually take art history courses with other art courses to properly prepare for the major.

```
ARH2050 Art History Survey I (3 Credits)
ARH2051 Art History Survey II (3 Credits)
ART1201C Two-Dimensional Design (3 Credits)
    Acceptable substitute: ART XXXX 2D
ART2203C Three-Dimensional Design (3 Credits)
    Acceptable substitute: ART X202, ART XXXX Design II, 3D
ART1300C Drawing I (3 Credits)
ART2301C Drawing II (3 Credits)
    Acceptable substitutes: ARTX330, X205, X310, X305
SELECT 2 INTRO MEDIA COURSES
    1000/2000 Level
- ART
```

Major Requirements (39 credits)
Prerequisite policy: Courses must be taken in prerequisite order. Electronic approval must be obtained for courses requiring prerequisites each semester. Please check the catalog course description section for prerequisites required for each course prior to registering. Prerequisites are strictly enforced by the department and registrar.
First day attendance rule: Any student who misses the first day without advanced notice to the department chairperson will be administratively withdrawn from that course.
Grades of $C$ or above required in all major courses.
PGY2401C Black and White Photography (3 Credits)
ART2605C Basic Computer Images (3 Credits)
ART2500C Painting Fundamentals (3 Credits)
Prereq: One drawing course
ART2330C Figure Drawing I (3 Credits)
Prereq: ART 1300C \& ART 2301C
ARH4800 Aesthetics of Art (3 Credits)
SELECT 2 ART HIST COURSES (3000/4000)

- ARH

ART3786C Ceramics (3 Credits)
ART3707C Sculpture I (3 Credits)
ART3709C Sculpture II (3 Credits)
ART4710C Sculpture III (3 Credits)
ART4929C Senior Project (3 Credits)
ART4965C Fine Arts Portfolio (3 Credits)

Major Electives (15 credits)
Please refer to the course description for repeatablity information.
SELECT 5 SCULPTURE ELECTIVES FROM:

- ART 4736C Enlivened Spaces
- ART 3714C Sculpture: Casting
- ART 4710C Sculpture III

SELECT 9 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Political Science <br> Concentration: Public Admin/Public Policy <br> Degree: Bachelor of Arts

Prerequisites (6 credits)
Requires grades of $C$ or above.
POS2041 Intro to American Government (3 Credits)
SELECT 1 INTRO POLI SCIENCE COURSE
Any 2 introductory political science courses with POS, CPO, or INR prefixes can be used

Core Requirements (18 credits)
Requires grades of $C$ or above.
POS3733 Research Design for Poli Sci (3 Credits)
POS3734 Research Analysis for Poli Sci (3 Credits)
POT3003 Political Thought and Action (3 Credits)
PAD4003 Public Administration (3 Credits)
SELECT 1 COURSE (3000/4000 LEVEL)

- POS 3413 American Presidency
- POS 3424 Congress \& the Legislative Process
- POS 3606 U.S. Supreme Court
- CPO 4014 Comparative Politics: Frameworks for Analysis
- INR 4603 International Relations:Frameworks for Analysis
- INR 4703 International Political Economy

POS4930 Senior Seminar: Political Sci (3 Credits)
Prereqs: ALL 5 courses listed in the Core Requirement must be completed with a "C" or better grade and senior status

Major Electives (12 credits)

## SELECT 4 COURSES FROM BELOW

- INR 3084 Terrorism Today
- PAD 4027 Issues in Public Management
- PAD 4832 Issues in Comparative Public Administration
- POS 3114 Issues in State \& Local Government
- POS 3142 Politics \& Policy in Urban Government
- POS 3931 ST: Politics
- POS 4167 Urban Policy \& Planning
- POS 4905 Directed Individual Study
- POS 4932 ST: Politics \& Public Administration
- POS 4093 Politics of the War on Drugs
- POS 4945 Internship/Field Experience
- PUP 3053 American Political Economy
- PUP 4003 Policy Making Process
- PUP 4506 Evolution, Society, \& Politics
- PUP 4612 Politics of Social Programs

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last

60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (7 credits)
SELECT 7 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: French Studies

Degree: Bachelor of Arts

## Prerequisites

Students must earn a grade of C or better in all prerequisite and major courses.
Note: Students may be placed into higher courses due to placement exam result or departmental recommendation.

```
FRE1120 Beginning French I (4 Credits)
FRE1121 Beginning French II (4 Credits)
FRE2240 Intermediate French I (3 Credits)
FRE2241 Intermediate French II (3 Credits)
```

Major Electives (21 credits)
Students are encouraged to take more than the minimum 9 semester hours of courses taught in French.
Of the 12 hours allowed in English, no more than 6 hours may be in courses focusing on Europe so that students will be exposed to the cultural and ethnic diversity of the Francophone world.

## SELECT 3 FROM THE FOLLOWING:

(Taught in French)

- FOL 3930 ST: Foreign Languages (French only)
- FOL 3953 Advanced Foreign Language Study
- FRE 3430 French for the Professions
- FRE 3502 French and Francophone Cultures
- FRE 4501 France Today
- FRE 4402 Advanced French Conversation
- FRE 4905 Directed Independent Study in French
- FRE 4930 Special Topics in French Culture
- FRT 3800 French Translation Techniques
- FRW 3100 Survey of French Literature: Pre-19th Century
- FRW 3101 Survey of French Literature: The Modern Period
- FRW 4930 ST: French Literature (may be repeated)


## SELECT 4 FROM THE FOLLOWING:

(Focusing on France and the Francophone world)

- FIL 4822 French Cinema
- FOT 3510 Love in the Middle Ages
- FOT 3931 Studies in Foreign Culture (French/Francophone culture only)
- FRT 3550 Faces of France
- FRT 4561 Women in French Literature \& Culture
- EUH 3451 France Since 1789
- EUH 4294 Seminar-Modern Europe (topic on France only)
- CPO 3151 Politics \& Society in France

Focusing on Europe) Select no more than 2 courses from the following:

- EUH 3120 Medieval Europe
- EUH 3142 Renaissance-Reformation
- EUH 3202 Enlightenment \& Power: Europe 1660-1789
- EUH 3205 19th Century Europe
- EUH 3206 20th Century Europe
- ARH 3410 Modern European Art I
- ARH 3434 Modern European Art II
- PHP 3786 Existentialism
- ECS 3303 Current Issues in the Economics of the European Union

FRE3283 Fren Listening/Speaking Skills (3 Credits)
FRE3300 French Grammar and Composition (3 Credits)
FRE3350 Readings Fren Lit and Culture (3 Credits)

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Table of Contents

## Major: Political Science <br> Concentration: Public Law <br> Degree: Bachelor of Arts

Prerequisites (6 credits)
Requires grades of $C$ or above.
POS2041 Intro to American Government (3 Credits)
SELECT 1 INTRO POLI SCIENCE COURSE
Any 2 introductory political science courses with POS, CPO, or INR prefixes can be used

Core Requirements (18 credits)
Requires grades of $C$ or above.
POS3733 Research Design for Poli Sci (3 Credits)
POS3734 Research Analysis for Poli Sci (3 Credits)
POT3003 Political Thought and Action (3 Credits)
PAD4003 Public Administration (3 Credits)
SELECT 1 COURSE (3000/4000 LEVEL)

- POS 3413 American Presidency
- POS 3424 Congress \& the Legislative Process
- POS 3606 U.S. Supreme Court
- CPO 4014 Comparative Politics: Frameworks for Analysis
- INR 4603 International Relations:Frameworks for Analysis
- INR 4703 International Political Economy

POS4930 Senior Seminar: Political Sci (3 Credits)

Prereqs: ALL 5 courses listed in the Core Requirement must be completed with a "C" or better grade and senior status

Major Electives (12 credits)
SELECT 4 COURSES FROM BELOW:

- POS 3606 The U.S. Supreme Court
- POS 3679 Mock Trial
- POS 3691 American Legal System
- POS 3931 ST: Politics
- POS 3676 Great American Trials
- POS 3615 Soul of the Court
- POS 4608 Constitutional Law: Power \& Restraint
- POS 4624 Constitutional Law: Civil Rights \& Liberties
- POS 4905 Directed Individual Study
- POS 4932 ST: Politics \& Public Administration
- POS 4945 Internship/Field Experience

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.


## Free Electives (7 credits)

SELECT 7 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: History <br> Degree: Bachelor of Arts

Prerequisites (6 credits)
Requires grades of $C$ or higher.
SELECT 1 FROM THE FOLLOWING:

- AMH EUH WOH LAH AFH


## SELECT 1 FROM THE FOLLOWING:

- AFH AMH EUH WOH LAH

Major Requirements (18 credits)
Required grades of $C$ or higher.
HIS3051 (GW)Craft Of The Historian (3 Credits)
Only offered in the fall \& spring semesters
U.S. AMH @ 3000/4000 LEVEL

EUROPEAN EUH @ 3000/4000 LEVEL
GLOBAL AFH/ASH/ASN @ 3000/4000 LEVEL
1 non western or global history from Asia, Africa, or Middle East @ 3000 level
SEMINARS 2-4000 LEVEL HISTORY COURSES
HIS 3051 must be completed with at least a "C" before taking 4000 level courses. Internships \& independent study courses do not satisfy 4000 level requirement. Important note: 4000 level seminar courses are offered only fall \& spring semesters.

- AFH AMH EUH ASN ASH HIS LAH

Major Electives (12 credits)
Requires grades of C or higher
SELECT 4 FROM: (3000/4000)

- HIS AMH EUH ASH ASN LAH AFH

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level
at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (7 credits)
SELECT 7 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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Major: Psychology<br>Concentration: Child Psychology<br>Degree: Bachelor of Arts

Prerequisites (12 credits)
Requires grades of $C$ or above.
PSY2012 Introduction to Psychology (3 Credits)
SELECT ONE ADDITIONAL PSYCH COURSE

- CLP DEP EAB EXP INP PCO PPE PSB PSY SOP

BIOLOGY REQUIREMENT

- BSC1010C or BSC1005C

Acceptable substitutes: BSCX20X or ZOOX010
STATS REQUIREMENT
Select One Statistics Course

- STA

Foundation (5 credits)
All Bachelor of Arts students must have completed PSY 3214 and PSY 3213L with grades of C or better.

PSY3021 Prof Opportunities in PSYC (1 Credit)
RESEARCH METHODS AND LAB REQUIREMENT
Prereq: Elementary Statistics

- PSY 3213 Research Methods in Psychology
- PSY 3213L Research Methods Lab

Experimental Courses (4 credits)
Research Methods and Lab, PSY 3213 (Previous number PSY3214) AND PSY 3213L, must be completed with a grade of $C$ or better before attempting the experimental courses.

SELECT 1 EXPERIMENTAL COURSE FROM:

- EAB 3013C Experimental Analysis of Behavior/Lab
- EXP 3680C Experimental Cognitive Psychology
- EXP 3703C Computer Applications in Psych Research
- EXP 3461C Human Learning and Performance
- PSY 4302C Psychological Testing
- SOP 3214C Experimental Social Psychology
- EXP 4252C Human Factors and Ergonomics

Major Requirements (15 credits)
CLP4143 Psychology Of Abnormal Behavr (3 Credits)
DEP3054 Lifespan Developmental Psych (3 Credits)
SELECT 3 FROM THE FOLLOWING:

- CBH 3004 Comparative Psychology
- EXP 3412 Learning Theory
- EXP 3604 Cognitive Psychology
- EXP 3104 Human Sensory Perception
- PPE 4003 Theories of Personality
- PSB 3002 Psychobiology
- PSY 4604 History of Psychology


## Major Electives (9 credits)

A maximum of 3 hours of honors research may count for both honors in the major and the major electives area. A total of 3 hours in any combination of Directed Individual Study, Supervised Research, Honors Research, or Practicum may be used as major elective credits. Additional hours of these courses may be taken and used in honors in the major and/or as free elective credits. See your advisor for details.

## SELECT 1 OF THE FOLLOWING:

- DEP 4104 Advanced Child Psychology
- DEP 4304 Advanced Adolescent Psychology

SELECT 1 FROM THE FOLLOWING:

- CLP 4134 Childhood Psychopathology
- DEP 4060 Applied Developmental Psychology


## SELECT 3 CREDITS FROM THE FOLLOWING:

(Focus of research or practicum must be child or adolescent psychology)

- PSY 3911 Supervised Research
- PSY 4906 Directed Individual Study
- PSY 4904 Honors Research
- PSY 4945 Practicum in Applied Psychology


## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog.
Minors are generally completed during the last 60 hrs of you program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor. *(Double majors are exempt from the minor requirement).

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

## TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.


## FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

In order to qualify to graduate with a Bachelor's degree from the College of Arts and Sciences you must earn a minimum of 48 upper level credits out of the total 120 degree applicable required credit hours. Upper level courses are numbered from 3000-4999. Dual Degree and Double Majors should consult their Advisor.

48 HOURS 48 upper level hours

## Table of Contents

## Major: Interdisciplinary Studies

Degree: Bachelor of Arts

Major Requirements (12 credits)
Each student will choose one course from each of the four discipline areas within the College of Arts and Sciences (Communicative Arts, Fine Arts, Social Science, and Natural Science)

- A minimum GPA of 2.5 is required to be admitted and to graduate with the Interdisciplinary Major.


## SELECT A 1 FINE ART 3000/4000

- ARH HUM MUH

SELECT B 1 COMMUNICATIVE ART 3000/4000

- ADV AMH AML ASH ASN CRW ENG ENL EUH HIS JOU LAH LIT MMC PHH PHI PHM PHP PUR REL RTV

SELECT C 1 SOCIAL SCIENCE 3000/4000

- ANT CLP CPO DEP EAB ECO EXP INP INR PAD PCO POS POT PPE SOP SYA SYD SYG SYO SYP PSY PUP

SELECT D 1 NATURAL SCIENCE 3000/4000

- APB BCH BSC CHM CHS MCB OCB OCE PHY ZOO

Major Electives (40 credits)
SELECT 21 HRS TO SUPPORT MAJOR THEME

- Courses to be chosen in areas related to major theme. No more than 9 credit hours outside the College of Arts and Sciences.

RESEARCH METHODS REQUIREMENT

- Select 1 research methods appropriate to exposition topic.
- POS3713, SYA3300 and PSY3214/3213L all require elementary statistics.
- ANT 4192 Archaeological Research Strategy
- CCJ 3700 Research Methods in Criminology \& Criminal Justice
- ENG 4013 Approaches to Literary Interpretation
- HIS 3051 Craft of the Historian
- POS 3713 Political Inquiry \& Analysis
- PSY 3214 \& PSY 3213L Research Methods in Psychology \& Lab
- SYA 3300 Logic of Inquiry

SELECT 3 THEME COURSES 3000/4000

- (must be directly related to exposition topic)

IDS4910 Liberal Studies Expo (3-9 Credits)

## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Foreign Language/Foreign Cultures
All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of C or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a " C " or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.


## Table of Contents

## Major: Psychology <br> Concentration: Child Psychology <br> Degree: Bachelor of Science

Prerequisites (12 credits)
Requires grades of C or above.
PSY2012 Introduction to Psychology (3 Credits)
SELECT ONE ADDITIONAL PSYCH COURSE

- CLP DEP EAB EXP INP PCO PPE PSB PSY SOP

BIOLOGY REQUIREMENT

- BSC1010C or BSC1005C

Acceptable substitutes: BSCX20X or ZOOX010
STATS REQUIREMENT
Select One Statistics Course

- STA

Foundation (5 credits)
All Bachelor of Science students must complete PSY 3213 and PSY 3213L with grades of B or better.

PSY3021 Prof Opportunities in PSYC (1 Credit)
RESEARCH METHODS AND LAB REQUIREMENT
Prereq: Elementary Statistics

- PSY 3213 Research Methods in Psychology
- PSY 3213L Research Methods Lab


## Experimental Courses (12 credits)

For all Bachelor of Science students, Research Methods and Lab, PSY 3213 (Previous number PSY3214) and PSY 3213L, must be completed with a grade of B or better before attempting the experimental courses.

SELECT 1 FROM THE FOLLOWING:

- PSY 4302C Psychological Testing
- EXP 3703C Computer Applications in Psych Research


## SELECT 2 FROM THE FOLLOWING:

- EXP 3461C Human Learning and Performance
- EXP 3680C Experimental Cognitive Psychology
- SOP 3214C Experimental Social Psychology
- EAB 3013C Experimental Analysis of Behavior/Lab
- EXP 4252C Human Factors and Ergonomics

Major Requirements (18 credits)
Requires grades of $C$ or higher.
CLP4143 Psychology Of Abnormal Behavr (3 Credits)
DEP3054 Lifespan Developmental Psych (3 Credits)
SELECT A 2 FROM THE FOLLOWING:

- CBH 3004 Comparative Psychology
- EXP 3104 Human Sensory Perception
- PSB 3002 Psychobiology


## SELECT B 1 FROM THE FOLLOWING:

- EXP 3412 Learning Theory
- EXP 3604 Cognitive Psychology


## SELECT C 1 FROM THE FOLLOWING:

- SOP 3004 Social Psychology
- PSY 4604 History of Psychology
- PPE 4003 Theories of Personality

Major Electives (12 credits)
A maximum of 3 hours of honors research may count for both honors in the major and the major electives area. A total of 3 hours in any combination of Directed Individual Study, Supervised Research, Honors Research, or Practicum may be used as major elective credits. Additional hours of these courses may be taken and used in honors in the major and/or as free elective credits. See your advisor for details.

## SELECT A 1 FROM THE FOLLOWING:

- DEP 4104 Advanced Child Psychology
- DEP 4304 Advanced Adolescent Psychology


## SELECT B 1 FROM THE FOLLOWING:

- CLP 4134 Child Psychopathology
- DEP 4060 Applied Developmental Psychology


## SELECT C 3 HRS OF THE FOLLOWING:

(Focus of research or practicum must be child or adolescent psychology)

- PSY 3911 Supervised Research
- PSY 4906 Directed Individual Study
- PSY 4904 Honors Research
- PSY 4945 Practicum in Applied Psychology

SELECT 3 HRS (3000/4000):

- CBH CLP DEP EAB EXP INP PCO PPE PSB PSY SOP

48 Upper Level Hours (48 credits)
In order to qualify to graduate with a Bachelor's degree from the College of Arts and Sciences you must earn a minimum of 48 upper level credits out of the total 120 degree applicable required credit hours. Upper level courses are numbered from 3000-4999. Dual Degree and Double Majors should consult their Advisor.

48 HOURS 48 upper level hours

## Table of Contents

## Major: International Studies <br> Concentration: Asian Studies <br> Degree: Bachelor of Arts

## Foreign Language (8 credits)

Requires grades of $C$ or above.
SELECT 1 LANGUAGE SEQUENCE
Complete one sequence of two semesters beginning-level language (such as FRE
1120 Beginning French I and FRE 1121 Beginning French II) with a grade of C or higher:
CHI FRE GER JPN POR RUS SPN

Requisites (6 credits)
Requires grades of $C$ or above.
SELECT 2 INTERMEDIATE LANGUAGE

Foreign language proficiency is required. Students should have foreign language proficiency or CLEP equivalent to 2 beginning-level (see Foreign Language area) and 2 intermediate-level languages (in the same language). Students may satisfy the foreign language requirement by attaining proficiency equal to that associated with completion of intermediate level courses (2000 level or above) or completion of 6 semester hours beyond the above mentioned College requirement of an 8 hour introductory sequence in any foreign language.

Select 2 intermediate courses in foreign language:
CHI FRE GER JPN POR RUS SPN
Students already proficient in two languages should take additional upper-division language courses in place of the intermediate-level language courses. Students may petition the Program Director for permission to substitute two major electives (if upper-division courses are not available in the appropriate language) or beginninglevel language courses (if students wish to begin studying a new language) in place of the intermediate-level language course requisites.

Major Requirements ( 15 credits)
Requires grades of $C$ or above.
ANT3212 (CD)(FC)Peoples/Cultures World (3 Credits)
ECO3701 CD-Contemporary Intl Eco (3 Credits)
GEO3553 Cultural Dimensions of Eco Geo (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- CPO 4014 Comparative Politics: Frameworks for Analysis Prereq: CPO 2002
- INR 4603 International Relations: Frameworks of Analysis Prereq: INR 2002

SELECT 1 FROM THE FOLLOWING:

- ANT 4083 Quantitative Methods in Anthropology
- ANT 4497 Ethnographic Methods
- HIS 3051 The Craft of the Historian
- POS 3713 Political Inquiry \& Analysis

All majors must complete an approved (meaning approval by the program director) international experience from one of the following options:

INR3950 Int'I Educ Experience (0 Credits)
A. Successful completion of an UNF sponsored study abroad program.
B. Successful completion of another university sponsored study abroad program.
C. Successful completion of a student exchange program abroad.
D. Successful completion of a language study abroad program.
E. Successful completion of an internship program abroad.
F. Successful completion of a United States based international experience.

Capstone Seminar (3 credits)
INR4930 Capstone Seminar: Intl Studies (3 Credits)
Prereqs: Senior standing and satisfactory completion of the program's core courses:
ANT 3212, ECO 3701, GEO 3553, CPO 4014 or INR 4603, and ANT 4083 or ANT
4497 or HIS 3051 or POS 3713

Major Electives (9 credits)
Thematic or regional studies area.
For additional courses check with the list in the COAS Advising Office each semester.
SELECT 3 COURSES FROM THE FOLLOWING:

- ANT 4362 Peoples \& Cultures of Southeast Asia
- ASH 3337 Gandhi/Modern India
- ASH 3401 Contemporary China
- ASH 3404 Modern China
- ASH 3440 Japanese Civilization
- ASH 3448 Hiroshima
- ASH 3620 Asian Art \& Culture
- ASH 3932 Selected Topics: Asian History
- ASH 4934 Seminar: Asian History
- ASN 3106 Japanese Women
- CHI 3930 Special Topics in Chinese
- CHT 3500 Chinese Culture
- EUH 3581 Russia in Asia
- INR 4905 Directed Independent Study
- LIT 3193 Literature of the East
- PHH 3811 Philosophy of Zen Buddhism
- PHH 3820 Chinese Philosophy
- PHH 3860 Japanese Mind
- PHI 3664 Ethics East \& West
- PHI 3931 East \& West: Selected Topics
- REL 3310 Asian Religions
- REL 3330 Religions of India

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Free Electives (4 credits)
SELECT 4 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour
requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Psychology <br> Degree: Bachelor of Arts

Prerequisites (12 credits)
Requires grades of C or above.
PSY2012 Introduction to Psychology (3 Credits)
SELECT ONE ADDITIONAL PSYCH COURSE

- CLP DEP EAB EXP INP PCO PPE PSB PSY SOP

BIOLOGY REQUIREMENT

- BSC1010C or BSC1005C

Acceptable substitutes: BSCX20X or ZOOX010
STATS REQUIREMENT
Select One Statistics Course

- STA

Foundation (5 credits)
All Bachelor of Arts students must have completed PSY 3214 and PSY 3213L with grades of C or better.

PSY3021 Prof Opportunities in PSYC (1 Credit)
RESEARCH METHODS AND LAB REQUIREMENT
Prereq: Elementary Statistics

- PSY 3213 Research Methods in Psychology
- PSY 3213L Research Methods Lab


## Experimental Courses (4 credits)

Research Methods and Lab, PSY 3213 (Previous number PSY3214) AND PSY 3213L, must be completed with a grade of $C$ or better before attempting the experimental courses.

SELECT 1 EXPERIMENTAL COURSE FROM:

- EAB 3013C Experimental Analysis of Behavior/Lab
- EXP 3680C Experimental Cognitive Psychology
- EXP 3703C Computer Applications in Psych Research
- EXP 3461C Human Learning and Performance
- PSY 4302C Psychological Testing
- SOP 3214C Experimental Social Psychology
- EXP 4252C Human Factors and Ergonomics

Major Requirements (15 credits)

## SELECT 5 FROM THE FOLLOWING:

- CBH 3004 Comparative Psychology
- CLP 4143 Psychology of Abnormal Behavior
- DEP 3054 Lifespan Developmental Psychology
- EXP 3412 Learning Theory
- EXP 3604 Cognitive Psychology
- EXP 3104 Human Sensory Perception
- PPE 4003 Theories of Personality
- PSB 3002 Psychobiology
- PSY 4604 History of Psychology
- SOP 3004 Social Psychology

A maximum of 3 hours of honors research may count for both honors in the major and the major electives area. A total of 3 hours in any combination of Directed Individual Study, Supervised Research, Honors Research, or Practicum may be used as major elective credits. Additional hours of these courses may be taken and used in honors in the major and/or as free elective credits. See your advisor for details.

SELECT 9 HOURS (3000/4000)

- CBH CLP DEP EAB EXP INP PCO PPE PSB PSY SOP


## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog.
Minors are generally completed during the last 60 hrs of you program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor. *(Double majors are exempt from the minor requirement).

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of C or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a " C " or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.


## 48 Upper Level Hours (48 credits)

In order to qualify to graduate with a Bachelor's degree from the College of Arts and Sciences you must earn a minimum of 48 upper level credits out of the total 120 degree applicable required credit hours. Upper level courses are numbered from 3000-4999. Dual Degree and Double Majors should consult their Advisor.

48 HOURS 48 upper level hours

## Table of Contents

## Major: International Studies <br> Concentration: European Studies <br> Degree: Bachelor of Arts

## Foreign Language (8 credits)

Requires grades of $C$ or above.
SELECT 1 LANGUAGE SEQUENCE
Complete one sequence of two semesters beginning-level language (such as FRE
1120 Beginning French I and FRE 1121 Beginning French II) with a grade of C or higher:
CHI FRE GER JPN POR RUS SPN

Requisites (6 credits)
Requires grades of $C$ or above.
SELECT 2 INTERMEDIATE LANGUAGE
Foreign language proficiency is required. Students should have foreign language proficiency or CLEP equivalent to 2 beginning-level (see Foreign Language area) and 2 intermediate-level languages (in the same language). Students may satisfy the foreign language requirement by attaining proficiency equal to that associated with completion of intermediate level courses (2000 level or above) or completion of 6 semester hours beyond the above mentioned College requirement of an 8 hour introductory sequence in any foreign language.

Select 2 intermediate courses in foreign language:
CHI FRE GER JPN POR RUS SPN
Students already proficient in two languages should take additional upper-division language courses in place of the intermediate-level language courses. Students may petition the Program Director for permission to substitute two major electives (if upper-division courses are not available in the appropriate language) or beginninglevel language courses (if students wish to begin studying a new language) in place of the intermediate-level language course requisites.

Major Requirements ( 15 credits)
Requires grades of $C$ or above.
ANT3212 (CD)(FC)Peoples/Cultures World (3 Credits)
ECO3701 CD-Contemporary Intl Eco (3 Credits)
GEO3553 Cultural Dimensions of Eco Geo (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- CPO 4014 Comparative Politics: Frameworks for Analysis Prereq: CPO 2002
- INR 4603 International Relations: Frameworks of Analysis Prereq: INR 2002

SELECT 1 FROM THE FOLLOWING:

- ANT 4083 Quantitative Methods in Anthropology
- ANT 4497 Ethnographic Methods
- HIS 3051 The Craft of the Historian
- POS 3713 Political Inquiry \& Analysis

All majors must complete an approved (meaning approval by the program director) international experience from one of the following options:

INR3950 Int'I Educ Experience (0 Credits)
A. Successful completion of an UNF sponsored study abroad program.
B. Successful completion of another university sponsored study abroad program.
C. Successful completion of a student exchange program abroad.
D. Successful completion of a language study abroad program.
E. Successful completion of an internship program abroad.
F. Successful completion of a United States based international experience.

Capstone Seminar (3 credits)
INR4930 Capstone Seminar: Intl Studies (3 Credits)
Prereqs: Senior standing and satisfactory completion of the program's core courses:
ANT 3212, ECO 3701, GEO 3553, CPO 4014 or INR 4603, and ANT 4083 or ANT
4497 or HIS 3051 or POS 3713

Major Electives (9 credits)
Thematic or regional studies area.
For additional courses check the list in the COAS Advising Office each semester.

## SELECT 3 COURSES FROM THE FOLLOWING:

- ARH 3434 Modern European Art II
- ARH 3930 British Art
- CPO 3123 Politics \& Society in Britain \& Ireland
- CPO 3151 Politics \& Society in France
- CPO 3643 Politics \& Society in Russia
- ECS 3303 Current Issues in the Econ of EU
- ENL 3132 British Novel II
- ENL 3503 Periods of Later British Lit
- EUH 3205 19th Century Europe
- EUH 3206 20th Century Europe
- EUH 3241 The Holocaust
- EUH 3312 History of Spain
- EUH 3320 Eastern Europe
- EUH 3451 France Since 1789
- EUH 3462 Modern Germany
- EUH 3465 Nazi Germany: Power, Society \& War in Hitler's Reich
- EUH 3466 Germany Today
- EUH 3502 Modern Britain
- EUH 3530 History of British Empire
- EUH 3533 Making of Modern Ireland
- EUH 3575 Imperial Russia
- EUH 3576 Russia Since 1905
- EUH 3580 Russian Thought \& Culture
- EUH 3932 Selected Topics: European History
- EUH 4294 Seminar: Modern Europe
- INR 4905 Directed Independent Study
- LIT 3184 Intro to Irish Literature \& Culture
- LIT 4186 Studies in Irish Literature
- PHH 4601 20th Century Continental Philosophy
- PHH 4620 20th Century Philosophy: Anglo-Amer Tradition
- SPN 3500 Peoples \& Cultures of Spain


## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is
beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Free Electives (4 credits)
SELECT 4 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Psychology <br> Degree: Bachelor of Science

Prerequisites (12 credits)
Requires grades of C or above.
PSY2012 Introduction to Psychology (3 Credits)
SELECT ONE ADDITIONAL PSYCH COURSE

- CLP DEP EAB EXP INP PCO PPE PSB PSY SOP

BIOLOGY REQUIREMENT

- BSC1010C or BSC1005C

Acceptable substitutes: BSCX20X or ZOOX010
STATS REQUIREMENT
Select One Statistics Course

- STA

Foundation (5 credits)
All Bachelor of Science students must complete PSY 3213 and PSY 3213L with grades of B or better.

PSY3021 Prof Opportunities in PSYC (1 Credit)
RESEARCH METHODS AND LAB REQUIREMENT
Prereq: Elementary Statistics

- PSY 3213 Research Methods in Psychology
- PSY 3213L Research Methods Lab


## Experimental Courses (12 credits)

For all Bachelor of Science students, Research Methods and Lab, PSY 3213 (Previous number PSY3214) and PSY 3213L, must be completed with a grade of B or better before attempting the experimental courses.

## SELECT 1 FROM THE FOLLOWING:

- PSY 4302C Psychological Testing
- EXP 3703C Computer Applications in Psych Research


## SELECT 2 FROM THE FOLLOWING:

- EXP 3461C Human Learning and Performance
- EXP 3680C Experimental Cognitive Psychology
- SOP 3214C Experimental Social Psychology
- EAB 3013C Experimental Analysis of Behavior/Lab
- EXP 4252C Human Factors and Ergonomics

Major Requirements (18 credits)
Requires grades of $C$ or higher.
SELECT A 2 FROM THE FOLLOWING:

- CBH 3004 Comparative Psychology
- EXP 3104 Human Sensory Perception
- PSB 3002 Psychobiology

SELECT B 1 FROM THE FOLLOWING:

- EXP 3412 Learning Theory
- EXP 3604 Cognitive Psychology


## SELECT C 2 FROM THE FOLLOWING:

- SOP 3004 Social Psychology
- PSY 4604 History of Psychology
- PPE 4003 Theories of Personality
- DEP 3054 Lifespan Developmental Psychology


## SELECT D 1 FROM THE FOLLOWING:

- CBH 3004 Comparative Psychology
- DEP 3054 Lifespan Developmental Psychology
- EXP 3412 Learning Theory
- EXP 3104 Human Sensory Perception
- PPE 4003 Theories of Personality
- PSY 4604 History of Psychology
- CLP 4143 Psychology of Abnormal Behavior
- CLP 4313 Health Psychology
- SOP 3004 Social Psychology
- PSB 3002 Psychobiology

Major Electives (12 credits)
A maximum of 3 hours of honors research may count for both honors in the major and the major electives area. A total of 3 hours in any combination of Directed Individual Study, Supervised Research, Honors Research, or Practicum may be used as major elective credits. Additional hours of these courses may be taken and used in honors in the major and/or as free elective credits. See your advisor for details.

SELECT 12 HOURS (3000/4000):

- CBH CLP DEP EAB EXP INP PCO PPE PSB PSY SOP

48 Upper Level Hours (48 credits)
In order to qualify to graduate with a Bachelor's degree from the College of Arts and Sciences you must earn a minimum of 48 upper level credits out of the total 120 degree applicable required credit hours. Upper level courses are numbered from 3000-4999. Dual Degree and Double Majors should consult their Advisor.

48 HOURS 48 upper level hours

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## Major: International Studies <br> Concentration: Foreign Language \& Culture <br> Degree: Bachelor of Arts

## Foreign Language (8 credits)

Requires grades of $C$ or above.
SELECT 1 LANGUAGE SEQUENCE
Complete one sequence of two semesters beginning-level language (such as FRE
1120 Beginning French I and FRE 1121 Beginning French II) with a grade of C or higher:
CHI FRE GER JPN POR RUS SPN

Requisites (6 credits)
Requires grades of $C$ or above.
SELECT 2 INTERMEDIATE LANGUAGE

Foreign language proficiency is required. Students should have foreign language proficiency or CLEP equivalent to 2 beginning-level (see Foreign Language area) and 2 intermediate-level languages (in the same language). Students may satisfy the foreign language requirement by attaining proficiency equal to that associated with completion of intermediate level courses (2000 level or above) or completion of 6 semester hours beyond the above mentioned College requirement of an 8 hour introductory sequence in any foreign language.

Select 2 intermediate courses in foreign language:
CHI FRE GER JPN POR RUS SPN
Students already proficient in two languages should take additional upper-division language courses in place of the intermediate-level language courses. Students may petition the Program Director for permission to substitute two major electives (if upper-division courses are not available in the appropriate language) or beginninglevel language courses (if students wish to begin studying a new language) in place of the intermediate-level language course requisites.

Major Requirements ( 15 credits)
Requires grades of $C$ or above.
ANT3212 (CD)(FC)Peoples/Cultures World (3 Credits)
ECO3701 CD-Contemporary Intl Eco (3 Credits)
GEO3553 Cultural Dimensions of Eco Geo (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- CPO 4014 Comparative Politics: Frameworks for Analysis Prereq: CPO 2002
- INR 4603 International Relations: Frameworks of Analysis Prereq: INR 2002

SELECT 1 FROM THE FOLLOWING:

- ANT 4083 Quantitative Methods in Anthropology
- ANT 4497 Ethnographic Methods
- HIS 3051 The Craft of the Historian
- POS 3713 Political Inquiry \& Analysis

All majors must complete an approved (meaning approval by the program director) international experience from one of the following options:

INR3950 Int'I Educ Experience (0 Credits)
A. Successful completion of an UNF sponsored study abroad program.
B. Successful completion of another university sponsored study abroad program.
C. Successful completion of a student exchange program abroad.
D. Successful completion of a language study abroad program.
E. Successful completion of an internship program abroad.
F. Successful completion of a United States based international experience.

Capstone Seminar (3 credits)
INR4930 Capstone Seminar: Intl Studies (3 Credits)
Prereqs: Senior standing and satisfactory completion of the program's core courses:
ANT 3212, ECO 3701, GEO 3553, CPO 4014 or INR 4603, and ANT 4083 or ANT
4497 or HIS 3051 or POS 3713

Major Electives (9 credits)
Thematic or regional studies area.
For additional courses check the list in the COAS Advising Office each semester.

## SELECT 3 COURSES FROM THE FOLLOWING:

- ANT 3243 Comparative Muslim Cultures
- CHI 3930 Special Topics in Chinese
- CHT 3500 Chinese Culture
- FIL 3828 International Film
- FIL 4822 French Cinema
- FIL 4933 Topics in Foreign Language Cinema
- FOL 3930 ST: Foreign Language
- FOL 3953 Advanced Foreign Language Abroad
- FOT 3931 Studies of Foreign Culture
- FRE 3350 Reading French Lit and Culture
- FRE 3430 French for Professions
- FRE 4501 France Today
- FRE 4930 Special Topics in French Culture
- FRT 3800 French Translation Techniques
- FRT 3550 Faces of France
- FRW 3100 Survey of French Lit: Pre-19th Century
- FRW 3101 Survey of French Lit: The Modern Period
- INR 4905 Directed Independent Study
- LAH 3736 Mod Lat Am in Film
- LIT 4650 Comparative Literature
- SPN 3013 Spanish for Business
- SPN 3501 Hispanic Culture
- SPN 4541 Advanced Studies in Hispanic Culture
- SPW 3100 Spanish Literature from Middle Ages to 18th Century
- SPW 3101 Spanish Literature from the 19th to the 21st Century
- SPW 3130 Spanish American Literature to Modernismo
- SPW 3131 Spanish American Literature from Modernismo to Present
- SPW 4223 Hispanic Genres
- SPW 4394 Ibero-American Film
- SPW 4400 Periods of Spanish Literature

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Free Electives (4 credits)
SELECT 4 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Religious Studies <br> Degree: Bachelor of Arts

```
Foundation (3 credits)
REL2300 (CD) Comparative Religion (3 Credits)
Core Requirements (9 credits)
    Methods in the Study of Religion (9 required credit hour, grade C or higher)
REL3102 CD-Religion as Culture (3 Credits)
REL3040 Intro to Religion (3 Credits)
SELECT ONE COURSE FROM SACRED TEXTS
- REL 3293 Selected topics Bible/Scripture
- REL 3241 New Testament
- REL 3213 Hebrew Bible/OT
Major Requirements (18 credits)
TRADITIONS Select 9 credits from below:
Three courses from different areas many of which also fulfill the Foreign Culture requirements. (grade of \(C\) or higher)
Judaism
- REL 3932 Special Topics: Judaism
- REL 4937 Advanced Special Topics: Judaism Christianity
- REL 3505 History of Christianity
- REL 3930 Selected Topics: History of Religion (Christianity)
- REL 3931 Special Topics: Christianity
- REL 4938 Advanced Special Topics: Christianity Islam
- ANT 3243 Comparative Muslim Cultures
- ANT 4931 Selected Topics in Cultural Anthropology(Islam)
- REL 3933 Special Topics: Islam
- REL 4939 Advanced Special Topics: Islam Hinduism
- PHI 3930 Selected Topics (Indian Philosophy)
- ANT 4931 Selected Topics in Cultural Anthropology (Hinduism)
- REL 3934 Special Topics: Hinduism
- REL 4936 Advanced Special Topics: Hinduism Buddhism
- REL 3930 Selected Topics in History of Religion (Introduction to Buddhism)
- PHI 3930 Selected Topics (Chinese Philosophy, Indian Philosophy)
- REL 3935 Special Topics: Buddhism
- REL 4930 Advanced Special Topics: Buddhism
```

TOPICS IN RELIGION: 9 CREDITS
(Grade of C or higher)

- REL 3120 Religion in America
- REL 3127 Religion and the Courts
- REL 3101 Religion and Popular Culture
- REL 3148 Religion and Violence
- REL 3930 Selected Topics: History of Religion
- REL 3936 Selected Topics: Religious Thought
- PHI 3700 Philosophy of Religion
- PHI 3930 Selected Topics


## Capstone Experience (3 credits)

This course should bring together the theoretical and methodological skills developed in the major and apply them to a specific area of data that could vary by instructor and/or by student interest. It will be one context in which the assessment of the Religious Studies Major can take place. Students must obtain a grade of C or higher.

REL4910 Senior Seminar Capstone (3 Credits)

## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.


## Free Electives (7 credits)

This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: International Studies

## Concentration: Intl Relations \& Politics

Degree: Bachelor of Arts

## Foreign Language (8 credits)

Requires grades of $C$ or above.
SELECT 1 LANGUAGE SEQUENCE
Complete one sequence of two semesters beginning-level language (such as FRE
1120 Beginning French I and FRE 1121 Beginning French II) with a grade of C or higher:
CHI FRE GER JPN POR RUS SPN

## Requisites (6 credits)

Requires grades of C or above.
SELECT 2 INTERMEDIATE LANGUAGE

Foreign language proficiency is required. Students should have foreign language proficiency or CLEP equivalent to 2 beginning-level (see Foreign Language area) and 2 intermediate-level languages (in the same language). Students may satisfy the foreign language requirement by attaining proficiency equal to that associated with completion of intermediate level courses (2000 level or above) or completion of 6 semester hours beyond the above mentioned College requirement of an 8 hour introductory sequence in any foreign language.

Select 2 intermediate courses in foreign language:
CHI FRE GER JPN POR RUS SPN

Students already proficient in two languages should take additional upper-division language courses in place of the intermediate-level language courses. Students may petition the Program Director for permission to substitute two major electives (if upper-division courses are not available in the appropriate language) or beginninglevel language courses (if students wish to begin studying a new language) in place of the intermediate-level language course requisites.

Major Requirements ( 15 credits)
Requires grades of $C$ or above.
ANT3212 (CD)(FC)Peoples/Cultures World (3 Credits)
ECO3701 CD-Contemporary Intl Eco (3 Credits)
GEO3553 Cultural Dimensions of Eco Geo (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- CPO 4014 Comparative Politics: Frameworks for Analysis Prereq: CPO 2002
- INR 4603 International Relations: Frameworks of Analysis Prereq: INR 2002

SELECT 1 FROM THE FOLLOWING:

- ANT 4083 Quantitative Methods in Anthropology
- ANT 4497 Ethnographic Methods
- HIS 3051 The Craft of the Historian
- POS 3713 Political Inquiry \& Analysis

All majors must complete an approved (meaning approval by the program director) international experience from one of the following options:

INR3950 Int'I Educ Experience (0 Credits)
A. Successful completion of an UNF sponsored study abroad program.
B. Successful completion of another university sponsored study abroad program.
C. Successful completion of a student exchange program abroad.
D. Successful completion of a language study abroad program.
E. Successful completion of an internship program abroad.
F. Successful completion of a United States based international experience.

Capstone Seminar (3 credits)
INR4930 Capstone Seminar: Intl Studies (3 Credits)
Prereqs: Senior standing and satisfactory completion of the program's core courses:
ANT 3212, ECO 3701, GEO 3553, CPO 4014 or INR 4603, and ANT 4083 or ANT
4497 or HIS 3051 or POS 3713

Major Electives (9 credits)
Thematic or regional studies area.
For additional courses check the list in the COAS Advising Office each semester.

## SELECT 3 COURSES FROM THE FOLLOWING:

- AMH 3511 The U.S. in World Affairs
- AMH 3544 The 1960s \& Vietnam
- AMH 4514 Seminar: U.S. Diplomacy
- ANT 4444 Cities and Globalization
- ARH 3470 Art after 1940
- CPO 4034 Third World Politics
- CPO 4774 Comparative Political Communications
- ECO 3704 International Trade
- ECO 4504 Public Finance
- ECO 4713 The International Monetary System
- FIL 4828 International Film
- FIL 4848 World Cinema and the Cross-Cultural Encounter
- FIN 4604 International Finance
- GEO 3502 Economic Geography
- HIS 3307 Modern War
- INR 3016 Global Issues in Contemporary Politics
- INR 3084 Terrorism Today
- INR 3443 International Law \& Organization
- INR 4334 American Defense in the Age of Mass Destruction
- INR 4703 International Political Economy
- INR 4905 Directed Independent Study
- PAD 4832 Issues in Comparative Public Administration
- PHM 3362 Global Justice
- REL 3443 Liberation Theologies
- SYP 3440 Social Change \& International Development
- SYP 4411 Sociology of War \& Peace


## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Social Work <br> Degree: Bachelor of Social Work

## Prerequisites (15 credits)

Prior to being admitted to the BSW program, students must successfully complete 15 hours of state-mandated common prerequisites with a C or better. Select one course in each of the following disciplines (UNF course offerings are listed; equivalent courses from other institutions are also acceptable)

POS 2041 Intro to American Government
BIOLOGY Select one from list below

- BSC 1005C Principles of Biology
- BSC 2085C Anatomy \& Physiology I
- BSC 1010C General Biology I Acceptable substitutes: PCB x099

PSYCHOLOGY Select one from list below

- PSY 2012 Introduction to Psychology Acceptable substitutes: PSY x020

SOCIOLOGY Select one from list below

- SYG 2000 Introduction to Sociology Acceptable substitutes: SYG x010

ECONOMICS Select one from list below

- ECO 2013 Principles of Macroeconomics
- ECO 2023 Principles of Microeconomics Acceptable substitutes: ECO x000

Major Requirements (36 credits)
SOW3203 Social Welfare Institutions (3 Credits)
SOW4101 HBSE I (3 Credits)
SOW3293 Social Work Communication (3 Credits)
SOW3403 Social Work Research Methods (3 Credits)
SOW4302 SW w/ Indiv and Fam (3 Credits)
SOW4102 HBSE II (3 Credits)
SOW4XXX Social Work Practice w/ Groups
SOW4322 SW w/Org and Com (3 Credits)
SOW4511 Field Education I (3 Credits)
SOW4522 Field Seminar I (3 Credits)
SOW4512 Field Education II (3 Credits)
SOW4523 Field Seminar II (3 Credits)
(6 credits)
DIVERSITY SELECT TWO OF THE FOLLOWING:

- SYD 3700 Race \& Cultural Minorities
- SYD 3800 Gender \& Society
- ANT 3212 Peoples \& Cultures of the World

Major Electives (12 credits)
ELECTIVES SELECT FOUR OF THE FOLLOWING:

- SOW 4930 Special Topics in Social Work
- SYA 4654 Evaluation Research/Program Analysis
- SYO 3110 Sociology of Sexualities
- SYO 4100 Sociology of Family
- SYO 4400 Health, Illness, \& Society
- SYP 3570 Deviance \& Social Control
- SYP 4730 Sociology of Aging
- CJC 3410 Methods of Offender Treatment
- CCJ 4681 Family Violence
- CJJ 3010 Juvenile Delinquency \& Juvenile Justice

SELECT 6 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: International Studies <br> Concentration: Latin American Studies <br> Degree: Bachelor of Arts

## Foreign Language (8 credits)

Requires grades of $C$ or above.
SELECT 1 LANGUAGE SEQUENCE
Complete one sequence of two semesters beginning-level language (such as FRE
1120 Beginning French I and FRE 1121 Beginning French II) with a grade of C or higher:
CHI FRE GER JPN POR RUS SPN

Requisites (6 credits)
Requires grades of $C$ or above.
SELECT 2 INTERMEDIATE LANGUAGE

Foreign language proficiency is required. Students should have foreign language proficiency or CLEP equivalent to 2 beginning-level (see Foreign Language area) and 2 intermediate-level languages (in the same language). Students may satisfy the foreign language requirement by attaining proficiency equal to that associated with completion of intermediate level courses (2000 level or above) or completion of 6 semester hours beyond the above mentioned College requirement of an 8 hour introductory sequence in any foreign language.

Select 2 intermediate courses in foreign language:
CHI FRE GER JPN POR RUS SPN
Students already proficient in two languages should take additional upper-division language courses in place of the intermediate-level language courses. Students may petition the Program Director for permission to substitute two major electives (if upper-division courses are not available in the appropriate language) or beginninglevel language courses (if students wish to begin studying a new language) in place of the intermediate-level language course requisites.

Major Requirements ( 15 credits)
Requires grades of $C$ or above.
ANT3212 (CD)(FC)Peoples/Cultures World (3 Credits)
ECO3701 CD-Contemporary Intl Eco (3 Credits)
GEO3553 Cultural Dimensions of Eco Geo (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- CPO 4014 Comparative Politics: Frameworks for Analysis Prereq: CPO 2002
- INR 4603 International Relations: Frameworks of Analysis Prereq: INR 2002

SELECT 1 FROM THE FOLLOWING:

- ANT 4083 Quantitative Methods in Anthropology
- ANT 4497 Ethnographic Methods
- HIS 3051 The Craft of the Historian
- POS 3713 Political Inquiry \& Analysis

All majors must complete an approved (meaning approval by the program director) international experience from one of the following options:

INR3950 Int'I Educ Experience (0 Credits)
A. Successful completion of an UNF sponsored study abroad program.
B. Successful completion of another university sponsored study abroad program.
C. Successful completion of a student exchange program abroad.
D. Successful completion of a language study abroad program.
E. Successful completion of an internship program abroad.
F. Successful completion of a United States based international experience.

## Capstone Seminar (3 credits)

INR4930 Capstone Seminar: Intl Studies (3 Credits)
Prereqs: Senior standing and satisfactory completion of the program's core courses:
ANT 3212, ECO 3701, GEO 3553, CPO 4014 or INR 4603, and ANT 4083 or ANT
4497 or HIS 3051 or POS 3713

Major Electives (9 credits)
Thematic or regional studies area.
For additional courses check the list in the COAS Advising Office each semester.

## SELECT 3 COURSES FROM THE FOLLOWING:

- ANT 3340 Anthropology of West Indies
- ANT 4331 People of the Andes
- CPO 3351 Politics \& Society in Brazil
- INR 3248 US Caribbean/Central America Relations
- INR 4905 Directed Independent Study
- ECS 3403 Current Issues in Eco of Latin America
- LAH 3135 Spain in the New World
- LAH 3300 Modern Latin America
- LAH 3712 Inter-American Relations
- LAH 3736 Modern Latin America History Through Film
- LAH 3932 Selected Topics: Latin American History
- LAH 3955 Latin America Abroad
- LAH 4932 Seminar: Latin American History
- LAS 3020 Peoples \& Cultures of the Caribbean
- LAS 3031 Peoples \& Cultures of the Southern Cone
- LAS 3280 Issues in Modern Brazilian Culture
- LAS 3310 Peoples \& Cultures of Mexico
- LAS 3930 Cultures of Latin America

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Free Electives (4 credits)
SELECT 4 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

Major: Sociology<br>Concentration: Social Welfare<br>Degree: Bachelor of Arts

```
Prerequisites (6 credits)
SELECT 2 INTRO SOCIOLOGY (1000/2000)
    SYG/SYA/SYD/SYO/SYP
```

Major Requirements (21 credits)
SYA 3300 requires an elementary statistics course as preparation.
SYA3300 Logic of Inquiry (3 Credits)
Prereq: Elementary Statistics
RESEARCH Choose two from the following:

- SYA 3310 Qualitative Research Methods Prereq: SYA 3300
- SYA3450C Social Science Data Analysis Prereq: SYA 3300
- SYA 4654 Evaluation Research/Program Analysis Prereq: SYA 3300

SYA4010 Sociological Theory (3 Credits)
Prereq: SYG 2000 or SYG2013 \& 2 upper level Sociology courses
DIVERSITY Choose one from the following:

- SYD 3800 CD Gender \& Society
- SYD 3700 CD Racial \& Cultural Minorities
- ANT 3212 CD/FC Peoples \& Cultures of the World

SOW3203 Social Welfare Institutions (3 Credits)
SOW4352 Principles of Soc Serv Prov (3 Credits)

- Prereq: SOW 3203

Major Electives ( 15 credits)

## SELECT 2 SOCIOLOGY ELECTIVES

- SYO 3110 Sociology of Sexualities
- SYO 4100 Sociology of Family
- SYO 4400 Health, Illness \& Society
- SYP 3570 Deviance \& Social Control
- SYP 4730 The Sociology of Aging
- CJC 3410 Offender Treatment
- CCJ 4681 Family Violence
- CCJ 3010 Juvenile Delinq \& Juvenile Justice
- ANT 3443 The City \& Health
- SYD 4601 Community Organization, Change \& Development
- SOW 4930 ST: Social Welfare
- SOW 4905 Directed Independent Study - Social Work

SELECT 3 3000/4000 SOCIOLOGY ELECTIVES (SYA/SYD/SYO/SYP)

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is
beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Foreign Language/Foreign Cultures
All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of C or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.


## Table of Contents

## Major: International Studies <br> Concentration: Middle East-African Studies <br> Degree: Bachelor of Arts

## Foreign Language (8 credits)

Requires grades of $C$ or above.
SELECT 1 LANGUAGE SEQUENCE
Complete one sequence of two semesters beginning-level language (such as FRE
1120 Beginning French I and FRE 1121 Beginning French II) with a grade of C or higher:
CHI FRE GER JPN POR RUS SPN

Requisites (6 credits)
Requires grades of $C$ or above.
SELECT 2 INTERMEDIATE LANGUAGE

Foreign language proficiency is required. Students should have foreign language proficiency or CLEP equivalent to 2 beginning-level (see Foreign Language area) and 2 intermediate-level languages (in the same language). Students may satisfy the foreign language requirement by attaining proficiency equal to that associated with completion of intermediate level courses (2000 level or above) or completion of 6 semester hours beyond the above mentioned College requirement of an 8 hour introductory sequence in any foreign language.

Select 2 intermediate courses in foreign language:
CHI FRE GER JPN POR RUS SPN
Students already proficient in two languages should take additional upper-division language courses in place of the intermediate-level language courses. Students may petition the Program Director for permission to substitute two major electives (if upper-division courses are not available in the appropriate language) or beginninglevel language courses (if students wish to begin studying a new language) in place of the intermediate-level language course requisites.

Major Requirements ( 15 credits)
Requires grades of $C$ or above.
ANT3212 (CD)(FC)Peoples/Cultures World (3 Credits)
ECO3701 CD-Contemporary Intl Eco (3 Credits)
GEO3553 Cultural Dimensions of Eco Geo (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- CPO 4014 Comparative Politics: Frameworks for Analysis Prereq: CPO 2002
- INR 4603 International Relations: Frameworks of Analysis Prereq: INR 2002

SELECT 1 FROM THE FOLLOWING:

- ANT 4083 Quantitative Methods in Anthropology
- ANT 4497 Ethnographic Methods
- HIS 3051 The Craft of the Historian
- POS 3713 Political Inquiry \& Analysis

All majors must complete an approved (meaning approval by the program director) international experience from one of the following options:

INR3950 Int'I Educ Experience (0 Credits)
A. Successful completion of an UNF sponsored study abroad program.
B. Successful completion of another university sponsored study abroad program.
C. Successful completion of a student exchange program abroad.
D. Successful completion of a language study abroad program.
E. Successful completion of an internship program abroad.
F. Successful completion of a United States based international experience.

## Capstone Seminar (3 credits)

INR4930 Capstone Seminar: Intl Studies (3 Credits)
Prereqs: Senior standing and satisfactory completion of the program's core courses:
ANT 3212, ECO 3701, GEO 3553, CPO 4014 or INR 4603, and ANT 4083 or ANT
4497 or HIS 3051 or POS 3713

Major Electives (9 credits)
Thematic or regional studies area.
For additional courses check the list in the COAS Advising Office each semester.
SELECT 3 COURSES FROM THE FOLLOWING:

- AFH 3450 South Africa
- ANT 4352 Peoples \& Cultures of Africa
- ASH 3223 Middle East
- CPO 3213 Politics \& Society in Sub-Saharan Africa
- INR 4905 Directed Independent Study
- FOT 3552 Women of the Muslim-Arab World
- REL 3607 Selected Topics in Jewish Studies

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Free Electives (4 credits)
SELECT 4 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Sociology <br> Degree: Bachelor of Arts

Prerequisites (6 credits)
SELECT 2 INTRO SOCIOLOGY (1000/2000)
SYG/SYA/SYD/SYO/SYP

Major Requirements (12 credits)
SYA 3300 requires an elementary statistics course as preparation.
SYA3300 Logic of Inquiry (3 Credits)
Prereq: Elementary Statistics
SYA3310 Qualitative Research Methods (3 Credits)
Prereq: SYA 3300
SYA3450C Social Science Data Analysis (3 Credits)
Prereq: SYA 3300
SYA4010 Sociological Theory (3 Credits)
Prereq: SYG 2000 or SYG 2013 \& 2 upper level Sociology courses

Major Electives (21 credits)
SELECT 7 SOCIOLOGY ELECTIVES

- SYA 3931 ST: Sociology
- SYA 4930 ST: Sociology
- SYA 4905 Directed Individual Study
- SYA 4900 Honors Project in Sociology
- SYA 4935 Senior Seminar
- SYO 4200 Sociology of Religion
- SYD 4510 Environment \& Sociology
- SYP 4660 Sociology of Culture
- SYO 4370 Sociology of Work
- SYD 3020 Social Demography
- SYD 3410 Urban Sociology
- SYD 3700 Racial and Cultural Minorities
- SYD 3800 Gender \& Society
- SYD 4601 Community Organization, Change \& Development
- SYO 3110 Sociology of Sexualities
- SYO 3530 Social Stratification
- SYO 4100 Sociology of Family
- SYO 4300 Political Sociology
- SYO 4400 Health, Illness \& Society
- SYP 3440 Social Change \& International Development
- SYP 3570 Deviance \& Social Control
- SYP 4050 Social Human Interaction
- SYP 4351 Social Movements \& Social Control
- SYP 4411 Sociology of War \& Peace
- SYP 4730 The Sociology of Aging
- SYO 4200 Sociology of Religion

Minor Required
A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is
beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of C or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.


## Free Electives (4 credits)

## ELECTIVES 3000/4000 LEVEL

This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

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## Major: Mathematics <br> Concentration: Discrete Analysis <br> Degree: Bachelor of Science

Prerequisites ( 22 credits)
Requires grades of $C$ or above.
MAC2311 (GM) Calculus I (4 Credits)
MAC2312 (GM) Calculus II (4 Credits)
MAC2313 (GM) Calculus III (4 Credits)
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
SCIENTIFIC COMPUTER PROGRAMMING COURSE
Department recommends a computer programming language course in PASCAL, FORTRAN, C, C+, C++

- COP


## SCIENCE REQUIREMENT

1 laboratory-based science course designed for science majors.

- BSC CHM PHY GLY

Major Requirements ( 29 credits)
Grades of $C$ or above required in all major courses.
Note: All transfer courses require prior approval of department chairperson.
MAS3105 (GM) Linear Algebra (4 Credits)
Prereq: MAC 2312
MAD3107 (GM) Discrete Mathematics (3 Credits)
Prereq: MAC 2312
MHF3202 (GM)Foundations of Mathematics (3 Credits)
Prereq: MAC 2312
COP3503 Computer Science II (3 Credits)
Prereqs: MAC 2311, COT 3100, COP 2220
COT3210 Computability And Automata (3 Credits)
Prereqs: COT 3100, COP 3503
MAS4301 (GM) Abstract Algebra I (4 Credits)
Prereqs: MAS 3105 \& MHF 3202
SELECT 1 FROM THE FOLLOWING:

- MAD 4203 Combinatorics (prereqs: MAD 3107, MHF 3202, COT 3100)
- COT 4111 Computational Stuctures II (prereq: COT 3100 or MAD 3107)

SELECT 1 FROM THE FOLLOWING:

- MAD 4301 Graph Theory (prereqs: MAD 3107, MHF 3202, COT 3100)
- COT 4560 Applied Graph Theory (prereqs: COT 3100, plus COP 3530 or COP 3540)

SELECT 1 FROM THE FOLLOWING:

- MAD 4505 Discrete Biomathematics (prereqs: MAD 3107 or MHF 3202 or COT 3100)
- COT 4461 Computational Biology (prereqs: COP 3530 or COP 3540, and STA 4321 or Intro Stats)

Major Electives (6 credits)
Check catalog course descriptions for course prerequisites.
SELECT 2 FROM THE FOLLOWING:

- MAD 4401 Numerical Analysis
- MAP 4231 Operations Research
- MAS 3203 Number Theory
- MAS 4302 Abstract Algebra II
- MTG 4302 Elementary Topology
- STA 4322 Statistical Theory
- STA 4445 Probability Models


## Capstone Experience (3 credits)

MAS4932 Capstone Experience in Math (3 Credits)
Prereq: Senior standing \& permission of department
Discrete Analysis Concentration: Intensive Mathematics vs. approved Minor option information section Choose 1 of the following options:

- Mathematics Intensive Option
A. Senior Thesis (1-4 hours)

AND
Approved Upper Level Electives (11-14 hours)
B. Approved Upper Level Electives (15 hours)

- Computer Science Minor
- Statistics Minor for BS Math Majors
- Biology Minor
- Chemistry Minor
- Professional Education Minor

This minor satisfies the minimum professional education requirements for alternative teacher certification in the state of Florida. Students choosing this minor may use MHF 3404 History of Mathematics and MTG 3212 Modern Geometry as major electives.

Free Electives (3 credits)
SELECT 3 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Spanish <br> Degree: Bachelor of Arts

## Prerequisites

Grades of $C$ or above are required in all prerequisite and major courses.
Note: Students may be placed into higher courses due to placement exam result or departmental recommendation.

SELECT FROM THE FOLLOWING:

- SPN 1120 Beginning Spanish I and
- SPN 1121 Beginning Spanish II Or
- SPN 1134 Accelerated Beginning Spanish

SPN2200 Intermediate Spanish I (3 Credits)
SPN2201 Intermediate Spanish II (3 Credits)

Major Requirements (15 credits)
SPN3242 Spanish Conversation (3 Credits)
Prereq: SPN 2201
For non-native speakers of Spanish only. Native and heritage speakers may substitute another 3000 or 4000 -level elective, and are encouraged to select SPN 3351 Conversation and Communities for Heritage Speakers of Spanish.

SPN3300 Composition in Spanish (3 Credits)
Prereq: SPN 2201
Native and heritage speakers may substitute SPN 3350 Spanish for Speakers of Spanish for SPN 3300 Composition in Spanish.
SPW3030 Interpreting Hispanic Lit (3 Credits)
Prereqs: SPN 3242 \& SPN 3300

## SELECT 1 FROM THE FOLLOWING:

- SPN 3501 Hispanic Culture
- SPN 4541 Advanced Studies in Hispanic Culture


## SELECT 1 FROM THE FOLLOWING:

- SPW 3100 Spanish Literature from the Middle Ages to the 18th Century
- SPW 3101 Spanish Literature from the 19th to the 21st Century
- SPW 3130 Spanish American Literature to Modernismo
- SPW 3131 Spanish American Literature from Modernismo to the Present
- SPW 4930 Advanced Studies in Hispanic Literature

Major Electives ( 15 credits)
SELECT 5 COURSES AT 3000/4000 LEVEL

- SPN/SPW

Students may count among their electives up to one of the following courses taught in English:

- LAS 3020 Peoples \& Cultures of the Caribbean
- LAS 3031 Peoples \& Cultures of the Southern Cone
- LAS 3930 Cultures of Latin America
- SPN 3500 Peoples \& Cultures of Spain

Other courses in English may be counted only by permission of the chair of Languages, Literatures and Cultures

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog. Minors are generally completed during the last 60 hrs of your program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor.
*(Double majors are exempt from a minor.)

Free Electives ( 15 credits)
SELECT 15 HRS AT THE 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Mathematics

Degree: Bachelor of Arts

Prerequisites (22 credits)
Requires grades of $C$ or above.
MAC2311 (GM) Calculus I (4 Credits)
MAC2312 (GM) Calculus II (4 Credits)
MAC2313 (GM) Calculus III (4 Credits)
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
SCIENTIFIC COMPUTER PROGRAMMING COURSE
Department recommends a computer programming language course in PASCAL, FORTRAN, C, C+, C++

- COP


## SCIENCE REQUIREMENT

1 laboratory-based science course designed for science majors.

- BSC CHM PHY GLY

Major Requirements (18 credits)
Grades of $C$ or above required in all major courses.
Note: All transfer courses require prior approval of department chairperson.
The math department recommends MAA 4211, MAA 4212 and MAS 4301 be taken in the senior year.

MHF3202 (GM)Foundations of Mathematics (3 Credits)
Prereq: MAC 2312
MAS3105 (GM) Linear Algebra (4 Credits)
Prereq: MAC 2312
MAS4301 (GM) Abstract Algebra I (4 Credits)
Prereqs: MAS 3105 \& MHF 3202
MAA4211 (GM) Advanced Calculus I (4 Credits)
Prereqs: MAC 2313, MAS 3105, \& MHF 3202
MAA4212 (GM) Advanced Calculus II (3 Credits)
Prereq: MAA 4211

Contextual Courses (4 credits)
STA4321 (GM)Probability and Statistics (4 Credits)
Prereq: MAC 2312

Major Electives (9 credits)
Check catalog course descriptions for course prerequisites.
SELECT 3 FROM THE FOLLOWING:

- MAA 4402 Complex Analysis
- MAD 3107 Discrete Mathematics
- MAD 4203 Combinatorics
- MAD 4301 Graph Theory
- MAD 4401 Numerical Analysis
- MAD 4505 Discrete Biomathematics
- MAP 3170 Financial Mathmatics for Actuarial Science
- MAP 4231 Operations Research
- MAP 4341 Elementary Partial Differential Equations
- MAS 3203 Number Theory
- MAS 4156 Vector Analysis
- MAS 4302 Abstract Algebra II
- MHF 3404 History of Mathematics
- MTG 3212 Modern Geometry
- MTG 4302 Elementary Topology
- STA 4322 Statistical Theory
- STA 4445 Probability Models
- STA 4672 Prob. Models w/ App to Actuarial Science

Capstone Experience (3 credits)
MAS4932 Capstone Experience in Math (3 Credits)
Prereq: Senior standing \& permission of department

## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog.
Minors are generally completed during the last 60 hrs of you program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor. *(Double majors are exempt from the minor requirement).

Foreign Language/Foreign Cultures
All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of C or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.

FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (3 credits)

## SELECT 3 HR FREE ELECTIVES 3000/4000

This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Statistics

Degree: Bachelor of Arts

Prerequisites (26 credits)
All transfer courses require prior approval of department chairperson. A grade of C or better is required in all statistics prerequisites.

MAC2311 (GM) Calculus I (4 Credits)
Prereq: MAC 1147
MAC2312 (GM) Calculus II (4 Credits)
Prereq: MAC 2311
MAC2313 (GM) Calculus III (4 Credits)
SELECT 1 STATISTICS COURSE

- STA


## SCIENTIFIC COMPUTER PROGRAMMING COURSE

Department recommends a computer programming language course in PASCAL, FORTRAN, C, C+, C++

- COP

SELECT 2 LAB SCIENCE COURSES
Must be designed for science majors

- BSC CHM PHY GLY

Major Requirements (19 credits)
Grades of C or higher required in all major courses.
MAS3105 (GM) Linear Algebra (4 Credits)
Prereq: MAC 2312
STA3163 (GM)Statistical Methods I (4 Credits)
Prereq: STA 2014 or STA 2023 or STA 4321
STA3164 (GM)Statistical Methods II (3 Credits)
Prereq: STA 3163
STA4321 (GM)Probability and Statistics (4 Credits)
Prereq: MAC 2312
STA4322 (GM) Statistical Theory (4 Credits)
Prereq: MAC 2313 \& STA 4321

Major Electives (12 credits)
Grades of C or higher required in all major electives.
SELECT 4 COURSES FROM THE FOLLOWING

- MAP 4231 Operations Research
- STA 4504 Categorical Data
- MAA 4211 Advanced Calculus I
- MAA 4212 Advanced Calculus II
- MAP 3170 Financial Mathmatics for Actuarial Science
- MHF 3202 Foundations of Math
- STA 4202 Design of Experiments
- STA 4222 Design/Sample/Survey
- STA 4664 Statistical Quality Control
- STA 4445 Probability Models
- STA 4502 Non-Parametric Methods in Statistics
- STA 4672 Prob. Models w/ App to Actuarial Science
- STA 4853 Stat Techniques for Time Series \& Forecasts
- STA 4906 Directed Individual Study

Capstone Experience (3 credits)
Graduation requirement: students must maintain a portfolio according to department guidelines and submit it to their capstone professor.

STA4945 Statistics Capstone (3 Credits)
Prereq: Senior Standing and permission of the department.

## Minor Required

A minor is required for this major.*
The minor must be selected from the list of approved minors, including those outside the college of the major.
See List of Minors in the Undergraduate Catalog.
Minors are generally completed during the last 60 hrs of you program. Your minor may require prerequisites, so choosing a minor early is beneficial. See your advisor to declare a minor. *(Double majors are exempt from the minor requirement).

## Foreign Language/Foreign Cultures

All BA students in the College of Arts and Sciences are required to complete the foreign language or foreign culture requirement with grades of $C$ or higher.

TAKE 8 HRS OF FOREIGN LANGUAGE

- Select one sequence of Spanish, French, Chinese, German, Japanese, Latin, Portuguese, Russian, or American Sign Language.
- Part 1 of languages are typically offered in the fall and part 2 in the spring.
- Incoming Students with prior experience in French or Spanish must take a placement exam. Students who place above the beginning level will satisfy this requirement by earning a "C" or better in a French or Spanish at the level at which they placed.
- Students who choose this option may also be eligible for a minimum of 3 credits and a maximum of 6 credits of retroactive credit if they complete with a "C" or above in a 3000 level French or Spanish course.
- This policy applies to Chinese as well, although in this case placement will be determined by the professor of the program.


## FC Foreign Culture Option

- Students who successfully completed 2 years of foreign language in high school have the option of taking 6 hours of foreign culture courses instead of 8 hours of college level foreign language.
- Foreign cultures contain (FC) in the course title.
- A complete list of foreign culture courses can be found in the Arts \& Sciences Advising Office.

Free Electives (3 credits)

## ELECTIVES 3 HOUR (3000/4000 LEVEL)

This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Mathematics

## Degree: Bachelor of Science

Prerequisites (22 credits)
Requires grades of $C$ or above.
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MAC2312 (GM) Calculus II (4 Credits)
MAC2313 (GM) Calculus III (4 Credits)
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
SCIENTIFIC COMPUTER PROGRAMMING COURSE
Department recommends a computer programming language course in PASCAL, FORTRAN, C, C+, C++

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## SCIENCE REQUIREMENT

1 laboratory-based science course designed for science majors.

- BSC CHM PHY GLY

Major Requirements (18 credits)
Grades of $C$ or above required in all major courses.
Note: All transfer courses require prior approval of department chairperson.
The math department recommends MAA 4211, MAA 4212 and MAS 4301 be taken in the senior year.

MHF3202 (GM)Foundations of Mathematics (3 Credits)
Prereq: MAC 2312
MAS3105 (GM) Linear Algebra (4 Credits)
Prereq: MAC 2312
MAS4301 (GM) Abstract Algebra I (4 Credits)
Prereqs: MAS 3105 \& MHF 3202
MAA4211 (GM) Advanced Calculus I (4 Credits)
Prereqs: MAC 2313, MAS 3105, \& MHF 3202
MAA4212 (GM) Advanced Calculus II (3 Credits)
Prereq: MAA 4211

Contextual Courses (4 credits)
STA4321 (GM)Probability and Statistics (4 Credits)
Prereq: MAC 2312

Major Electives (12 credits)
Please check catalog course descriptions for prerequisite requirements.
SELECT 4 COURSES FROM THE FOLLOWING:

- MAA 4402 Complex Analysis
- MAD 3107 Discrete Mathematics
- MAD 4203 Combinatorics
- MAD 4301 Graph Theory
- MAD 4401 Numerical Analysis
- MAD 4505 Discrete Biomathematics
- MAP 3170 Financial Mathematics for Actuarial Science
- MAP 4231 Operations Research
- MAP 4341 Elementary Partial Differential Equations
- MAS 3203 Number Theory
- MAS 4156 Vector Analysis
- MAS 4302 Abstract Algebra II
- MHF 3404 History of Mathematics
- MTG 3212 Modern Geometry
- MTG 4302 Elementary Topology
- STA 4322 Statistical Theory
- STA 4445 Probability Models
- STA 4672 Prob. Models w/ App to Actuarial Science

Capstone Experience (3 credits)
MAS4932 Capstone Experience in Math (3 Credits)
Prereq: Senior standing \& permission of department

Minor Required
Bachelor of Science students majoring in mathematics or statistics must select a minor from among biology, physics, computer science, statistics (for mathematics majors only), chemistry, economics, business, or mathematics (for statistics majors only). Double majors are exempt from a minor

Free Electives (8 credits)
SELECT 8 HRS FREE ELECTIVES 3000/4000
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Statistics

Degree: Bachelor of Science

Prerequisites (26 credits)
All transfer courses require prior approval of department chairperson. A grade of C or better is required in all statistics prerequisites.

MAC2311 (GM) Calculus I (4 Credits)
Prereq: MAC 1147
MAC2312 (GM) Calculus II (4 Credits)
Prereq: MAC 2311
MAC2313 (GM) Calculus III (4 Credits)
SELECT 1 STATISTICS COURSE

- STA


## SCIENTIFIC COMPUTER PROGRAMMING COURSE

Department recommends a computer programming language course in PASCAL, FORTRAN, C, C+, C++

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SELECT 2 LAB SCIENCE COURSES
Must be designed for science majors

- BSC CHM PHY GLY

Major Requirements (19 credits)
Grades of C or higher required in all major courses.
MAS3105 (GM) Linear Algebra (4 Credits)
Prereq: MAC 2312
STA3163 (GM)Statistical Methods I (4 Credits)
Prereq: STA 2014 or STA 2023 or STA 4321
STA3164 (GM)Statistical Methods II (3 Credits)
Prereq: STA 3163
STA4321 (GM)Probability and Statistics (4 Credits)
Prereq: MAC 2312
STA4322 (GM) Statistical Theory (4 Credits)
Prereq: MAC 2313 \& STA 4321

Major Electives (15 credits)
Grades of C or higher required in all major electives.
SELECT 5 COURSES FROM THE FOLLOWING:

- STA 4504 Categorical Data
- MAA 4211 Advanced Calculus I
- MAA 4212 Advanced Calculus II
- MAP 3170 Financial Mathmatics for Actuarial Science
- MAP 4231 Operations Research
- MHF 3202 Foundations of Math
- STA 4202 Design of Experiment
- STA 4222 Design/Sample/Survey
- STA 4664 Statistical Quality Control
- STA 4445 Probability Models
- STA 4502 Non-Parametric Methods in Statistics
- STA 4672 Prob. Models w/ App to Actuarial Science
- STA 4853 Stat Techniques for Time Series \& Forecasts


## Capstone Experience (3 credits)

Graduation requirement: students must maintain a portfolio according to department guidelines and submit it to their capstone professor.

STA4945 Statistics Capstone (3 Credits)
Prereq: Senior Standing and permission of the department.

Minor Required
Bachelor of Science students majoring in mathematics or statistics must select a minor from among biology, physics, computer science, statistics (for mathematics majors only), chemistry, economics, business, or mathematics (for statistics majors only). Double majors are exempt from a minor

Free Electives (8 credits)
ELECTIVES 8 HRS (3000/4000 LEVEL)
This degree requires a minimum of 120 total hours with 48 upper (3000/4000) level hours. Free electives may be courses in any discipline (provided the required prerequisites are met) and they are the hours needed to satisfy the total hour requirement. These hours may vary (consult your advisor about free elective hours needed to graduate).

## Table of Contents

## Major: Music Education <br> Degree: Bachelor of Music Education

## Freshman Year Fall Semester (11 credits)

EDF1005 Intro to Teaching Profession (3 Credits)
MUN 2XXX Large Ensemble
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT1111 Theory I (3 Credits)
MUT1241 Theory I, Aural (1 Credit)
MV- 1XXX Applied Music
MVK1111 Class Piano I (1 Credit)
*Students may take a piano proficiency test to waive class piano sequence.

Freshman Year Spring Semester (11 credits)
EDG2085 Teaching Diverse Populations

- Previous course number EDG 2701

MUN 2XXX Large Ensemble
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT1112 Theory II (3 Credits)
MUT1242 Theory II, Aural (1 Credit)
MV- 1XXX Applied Music
MVK1112 Class Piano II (1 Credit)
*Students may take a piano proficiency test to waive class piano sequence.

Sophomore Year Fall Semester (8 credits)
MUN 2XXX Large Ensemble
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT2116 Theory III (3 Credits)
MUT2246 Advanced Aural Theory (1 Credit)
MV- 2XXX Applied Music
MVK2121 Class Piano III (1 Credit)
*Students may take a piano proficiency test to waive class piano sequence.

Sophomore Year Spring Semester (11 credits)
EME2040 Intro to Tech for Educators (3 Credits)
MUN 2XXX Large Ensemble
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUT2117 Theory IV (3 Credits)
MUT2247 Advanced Aural Theory (1 Credit)
MV- 2XXX Applied Music
MVK2122 Class Piano IV (1 Credit)
*Students may take a piano proficiency test to waive class piano sequence.

Junior Year Fall Semester (15 credits)
EDF3151 Educational Psychology (3 Credits)
MUE2440 String Techniques (1 Credit)
MUE2450 Woodwind Techniques (1 Credit)
MUG3104 Basic Conducting (2 Credits)

MUH3211 Music History I (3 Credits)
MUN 3XXX Ensemble Elective
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS3340 Computer MIDI Score (2 Credits)
MV- 3XXX Applied Music

Junior Year Spring Semester (16 credits)
EDF3945 Field Laboratory I (2-4 Credits)
MUE2460 Brasswind Techniques (1 Credit)
MUE2470 Percussion Techniques (1 Credit)
MUE4311 Music Ed in Elementary Schools (3 Credits)
MUH2501 CD- World Music (3 Credits)
MUH3212 Music History II (3 Credits)
MUN 3XXX Ensemble Elective
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MV- 3XXX Applied Music

Junior Year Summer (6 credits)
EDG4327 Assessment Of Learn/Behavior (3 Credits)
EDG4410 Classroom Managment Commun (3 Credits)

Senior Year Fall Semester (17 credits)
EDF3946 Field Laboratory II (2-4 Credits)
MUE3480 Marching Band Techniques (1 Credit)
MUE4330 Music Ed in Secondary School (3 Credits)
MUN 4XXX Ensemble Elective
(Department permits MUN 3XXX in place of MUN 4XXX)
MUS1010 Performance Laboratory (0 Credits)
MUS1011 Concert Attendance (0 Credits)
MUS4970 Senior Recital (0 Credits)
MV- 4XXX Applied Music
RED3333 Content Area Reading (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- MUE 3491 Choral Materials Practicum
- MUE 3332 Instrumental Material Practicum

TSL 4XXX TESOL for Content Area Teacher

- TSL 4340 TESOL Methods \& Curriculum
- TSL 4324 TESOL for Secondary Content Area Teachers**
- TSL 4360 TESOL Meth. \& Curriculum for Secondary Teachers ${ }^{* *}$ TSL4324 is the prefered course for Music Education majors.

Senior Year Spring Semester (12 credits)
MUE4940 Internship in Music Education (12 Credits)

## Table of Contents

## Minor: African Amer Studies/Diaspora

Minor: African Amer Studies/Diaspora (15 credits)
No more than 6 semester hours, or 2 course carrying lower level numbers may be used in the minor.
A minimum of 9 semester hours must be taken at UNF.
A grade of C or better is required for all minor courses.
SELECT 1 OF THE FOLLOWING:

- Internship
- Service Learning
- Study Abroad
- Independent Study

AMH3673 The Civil Rights Movement (3 Credits)
Or an equivalent course approved by the program director
SELECT 3 COURSES FROM THE FOLLOWING:

- ANT 3340 Anthropology of the West Indies
- ANT 4352 Peoples \& Cultures of Africa
- CCJ 4662 Minorities \& Crime
- CJE 4211 Hate Crimes
- AFH 3450 South Africa
- AMH 3672 Atlantic Slave Trade
- AML 3621 Black American Literature
- GEO 2420 Cultural Geography
- FOL 3930 Race \& Place in American Literature
- FOL 3930 Brazilian Music
- LAS 3020 Brazilian Music
- LAS 3280 Issues in Modern Brazilian Culture
- MUH 2018 The Evolution of Jazz
- MUH 3055 African American Musical Heritage
- SYD 3700 Racial \& Cultural Minorities
- SYG 2013 Sex, Race, \& Social Class
- ECP 2140 Race \& Gender in the American Economy


## Table of Contents

## Minor: International Studies

Minor: International Studies (15 credits)
A grade of C or higher is required in all minor coursework.
Only 2 courses, or 6 semester hours may be transferred in to satisfy minor requirements.
Only 1 course carrying a lower level number may apply towards the minor.
SELECT 3 FROM THE FOLLOWING:

- ANT 3212 Peoples \& Cultures of the World
- CPO 4014 Comparative Politcs: Frameworks for Analysis
- ECO 3701 Contemporary International Economics
- GEO 3553 Cultural Dimensions of Economic Geography
- INR 4603 International Relations: Frameworks for Analysis

SELECT 2 MINOR ELECTIVES (3000/4000)
Select 2 courses from the same concentration (see list of major electives for the International Studies Major): Asian Studies, European Studies, Latin America, International Relations \& Politics, Foreign Language \& Culture, Middle East \& Africa.

- ASH GEO LIT PHI CPO SYP ECO EUH HIS ANT FOT INR FIL LAH SPN SPW AMH LAS FRT FRW HSC FIN PHH ASN ECS FIN FOL LAH LAS PHI


## Table of Contents

## Minor: American Literature Studies

Minor: American Literature Studies (15 credits)
Our minor in American Literature will aquaint students broadly with a range of American Literature, and will aquaint them deeply with some of the more significant American authors, as well as some of the principle concerns of the field, such as the origins and history of American Exceptionalism, and the effects of Puritan Literature and other Literatures in the Age of Conquest on later conceptions of the American self. Students will be introduced to both canonical and minority American Literature and they will investigate how both the canon and its margins have come to be constructed.

AML3031 (GW)Periods Early American Lit (3 Credits)
AML3041 (GW)Periods of Later Am Lit (3 Credits)
LIT4243 Major Authors (3 Credits)
SELECT 2 other American Lit Courses

- Students make select from two additional American Literature courses (AML prefix and department approved LIT or FIL)


## Table of Contents

## Minor: Law and Philosophy

Minor: Law and Philosophy ( 15 credits)
Of the total 15 hours for the minor, 12 must be upper level.
A minimum of 6 semester hours in philosophy must be taken at UNF.
6 semester hours may be transferred towards the minor.
A grade of $C$ or better is required for all minor courses.
Germany Today, The Japanese Mind, and The Greek Experience cannot be used as part of the philosophy minor.

SELECT 1 OF THE FOLLOWING:

- PHI 3601 Ethics
- PHM 3304 Political Philosophy

SELECT 4 FROM THE FOLLOWING:

- PHI 3632 Ethics of Sex \& Gender
- PHI 3670 Moral Conflict
- PHI 3930 ST: Philosophy
- PHM 3050 Ethical Issues in Death \& Dying
- PHM 3100 Social Philosophy
- PHM 3361 Philosophy of Democracy
- PHM 3362 Global Justice
- PHM 3400 Philosophy of Law
- PHM 4340 Contemporary Political Philosophy


## Table of Contents

## Minor: Anthropology

Minor: Anthropology (15 credits)
No more than 3 semester hours, or 1 course may be a Foreign Culture (FC) designated course No more than 6 semester hours, or 2 courses, may be transferred in to satisfy minor course requirements.
A grade of $C$ or better must be earned in each minor course.
SELECT 5 ANT COURSES (3000/4000)

## Table of Contents

## Minor: Literature

Minor: Literature (15 credits)

No more than 6 semester hours, or 2 courses of transfer credit may be used in the English minor.

No more than 3 semester hours, or 1 courses of lower level credit may be used in the English minor.
A minimum of 12 semester hours, or 4 courses must be upper level.
No course which fulfills a freshman composition requirement may be used in the English minor, even if the word "literature" is in the title.
A grade of $C$ or better is required for all minor courses.

## AMERICAN PERIODIZATION REQUIREMENT

## Select One Course

- AML 3031 Periods of Early American Literature
- AML 3041 Periods of Later American Literature

BRITISH PERIODIZATION REQUIREMENT Select One Course

- ENL 3501 Periods of Early British Literature
- ENL 3503 Periods of Later British Literature

SELECT 3 COURSES (3000/4000 LEVEL)

- AML CRW ENC ENG ENL LIT


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## Minor: Applied Statistics

Minor: Applied Statistics (19 credits)
A grade of C or better is required for all minor courses.
Requests for transfer courses must be approved by the department chairperson.
PREREQ REQUIREMENT
Select 1 Course From:

- STA 2014 Elementary Statistics for Health \& Social Sciences
- STA 2023 Elementary Statistics for Business

STA3163 (GM)Statistical Methods I (4 Credits)
Prereq: MAC 1105 or MAC 1147
STA3164 (GM)Statistical Methods II (3 Credits)
Prereq: STA 3163
SELECT 3 FROM THE FOLLOWING:

- STA 4202 Design of Experiments
- STA 4222 Design of Sample Surveys
- STA 4502 Nonparametric Methods in Statistics
- STA 4504 Categorical Data Analysis
- STA 4664 Statistical Quality Control
- STA 4906 Directed Individual Studies
- STA 4930 ST: Statistics
- STA 4853 Statistical Techniques for Time Series and Forescasts


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## Minor: Mass Communication

Minor: Mass Communication (15 credits)
Courses must be taken in sequence. A prerequisite course must be completed before the course that requires the prerequisite. Written permission from the department chair is required to override either of these policies.
No more than 6 semester hours of transfer courses may be used in the minor.
3 hours of lower level courses may be used.
A grade of C or better is required in all minor courses and prerequisites.
Majors in Communication may not pursue minors in either of the two communication minors.
MMC1004 Media Literacy (3 Credits)
MMC3105 Advanced Writing For The Media (3 Credits)
MMC3614 Media Theories and Effects (3 Credits)
SELECT 2 FROM THE FOLLOWING:

- ADV 3008 Principles of Advertising
- JOU 3204 Principles of Journalism
- PUR 3000 Principles of Public Relations
- MMC 3200 Law \& Ethics in Communications
- RTV 3000 Principles of Broadcasting
- SPC 4064 Public Speaking for Professionals


## Table of Contents

## Minor: Art History

Minor: Art History (15 credits)
A minimum if $50 \%$ of the courses required for any fine arts minor must be taken at UNF. A minimum of 9 semester hours of upper level courses is required for the art history minor. A grade of $C$ or better is required for all minor courses.
Courses used in the art major may not be duplicated in any of the art minors. Instead substitute courses will be required.

ARH2050 Art History Survey I (3 Credits)
ARH2051 Art History Survey II (3 Credits)
SELECT 3 ART HIST COURSES (3000/4000)

- ARH


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## Minor: Mathematical Science

Minor: Mathematical Science (15 credits)
Minor: Mathematics Minor for BA Statistics Majors
Courses used for the major cannot count in the minor.
A grade of C or better is required for all minor courses and prerequisites.
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
Prereq: MAC 2312
MAD4401 (GM) Numerical Analysis (3 Credits)
SELECT 3 FROM MATH MAJOR ELECTIVES

- MAA MAC MAD MAP MAS MAT MHF MTG

Minor: Mathematical Science ( 25 credits)
Students may transfer in Calculus II and Ordinary Differential Equations as part of the minor courses.
A grade of $C$ or better is required for all minor courses and prerequisites.

```
MAC2311 (GM) Calculus I (4 Credits)
    Prereq: MAC }114
MAC2312 (GM) Calculus II (4 Credits)
    Prereq: MAC 2311
MAC2313 (GM) Calculus III (4 Credits)
    Prereq: MAC }231
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
    Prereq: MAC }231
MAS3105 (GM) Linear Algebra (4 Credits)
    Prereq: MAC }231
SELECT 6 TO 8 HRS FROM THE FOLLOWING:
```

- MAA 4211 Advanced Calculus I
- MAA 4212 Advanced Calculus II
- MAA 4402 Complex Analysis
- MAD 3107 Discrete Mathematics
- MAD 4401 Numerical Analysis
- MAP 3170 Financial Mathematics for Actuarial Science
- MAP 4231 Operations Research
- MAP 4341 Elementary Partial Differential Equations
- MAS 3203 Number Theory
- MAS 4156 Vector Analysis
- MAS 4301 Abstract Algebra
- MHF 3202 Foundations of Mathematics
- MHF 3404 History of Mathematics
- MTG 3212 Modern Geometry
- MTG 4302 Elementary Topology
- STA 4321 Probability \& Statistics
- STA 4445 Probability Models

Minor: Mathematical Science ( 15 credits)
Minor: Mathematics Minor for BS Statistics Majors
Courses used for the major cannot count in the minor.
A grade of $C$ or better is required for all courses in the minor.
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
MAD4401 (GM) Numerical Analysis (3 Credits)

- MAA 4211 Advanced Calculus I
- MAA 4212 Advanced Calculus II
- MAA 4402 Complex Analysis
- MAD 3107 Discrete Mathematics
- MAD 4401 Numerical Analysis
- MAP 3170 Financial Mathematics for Actuarial Science
- MAS 3203 Number Theory
- MAS 4156 Vector Analysis
- MAS 4301 Abstract Algebra
- MHF 3202 Foundations of Mathematics
- MHF 3404 History of Mathematics
- MTG 3212 Modern Geometry
- MTG 4302 Elementary Topology
- STA 4445 Probability Models
- MAP 4231 Operations Research


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## Minor: Asian Studies

Minor: Asian Studies (15 credits)
A minimum of 6 hours must be taken at UNF. No more than six semester hours of language credit may be counted toward the minor. With the approval of the Asian Studies minor advisor, independent studies and other relevant courses may be counted for credit. In some cases, the Introduction to Asia requirement may be waived.
A grade of $C$ or better is required in all minor courses.
ASN2003 (CD) Introduction to Asia (3 Credits)
SELECT 4 FROM THE FOLLOWING:

- ASH 3620 Asian Art \& Culture
- ASH 3440 Japanese Civilization
- ASH 3441 Japan Before 1868
- ASH 3337 Gandhi/Modern India
- LIT 3193 Literature of the East
- PHH 3860 The Japanese Mind
- PHH 3820 Chinese Philosophy
- PHH 3811 The Philosophy of Zen Buddhism
- JPN 1120 Beginning Japanese I
- JPN 1121 Beginning Japanese II
- ASN 3106 Japanese Women
- ANT 4362 Peoples and Cultures in Southeast Asia
- ASH 3404 Modern China
- ASH 3402 Traditional China
- ASH 3401 Contemporary China (previous course title Beyond Chairman Mao)
- PHI 3664 Ethics East and West
- REL 3310 Asian Religions
- REL 3330 Religions of India
- CHI 1120 Beginning Chinese I
- CHI 1121 Beginning Chinese II
- CHI 2200 Intermediate Chinese I
- CHI 2201 Intermediate Chinese II


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## Minor: Painting, Drawing, Printmaking

Minor: Painting, Drawing, Printmaking (18 credits)
A minimum of $50 \%$ of the courses required for any fine arts minor must be taken at UNF.
Courses taken with lower-level numbers may be used as part of the minor, but a minimum of 9 semester hours in upper-level courses is required for all minors.
Courses used in the art major may not be duplicated in any of the art minors. Instead, substitute courses will be required.
Courses must be taken in sequence. If a course is a prerequisite for a second course, they may not be taken at the same time. Written permission from the department chair is required to override either of these policies.

## ART1300C Drawing I (3 Credits)

ART2301C Drawing II (3 Credits)
CHOOSE ONE FROM THE FOLLOWING:

- ART 2500C Painting Fundamentals
- ART 2330C Figure Drawing
- ART 2400C Intro to Printmaking

SELECT 2 ART ELECTIVES (3000/4000)

- ART

SELECT 1 ART HISTORY (3000/4000)

- ARH


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## Minor: Biology

Minor: Biology (15 credits)
All courses required for the minor may be transferred with prior approval of the department chairperson.
A cumulative average of 2.5 is required.
All 15 semester hours must be upper-level course work.
SELECT 15 HOURS (3000/4000) FROM:

- BCH BOT BSC MCB OCB OCE PCB ZOO


## Table of Contents

## Minor: Philosophy

Minor: Philosophy ( 15 credits)
Of the total 15 hours for the minor, 12 must be upper level.
A minimum of 6 semester hours in philosophy must be taken at UNF.
6 semester hours may be transferred towards the minor.
A grade of $C$ or better is required for all minor courses.
Germany Today, The Japanese Mind, and The Greek Experience cannot be used as part of the philosophy minor.

SELECT 5 PHILO ELECTIVES (3000/4000)

- PHI PHH PHM PHP


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## Minor: British Literature

Minor: British Literature (15 credits)
The British Literature minor is for students who wish to increase their knowledge of important British authors, texts, and contexts. Students with aspirations toward fully understanding and appreciating the English-language literary tradition from its origins to the present will be well served by this minor, as will students who wish to develop critical reading and writing abilities necessary for graduate study of literature as well as law, business, and other fields in which a clear comprehension of complex rhetoric and communication is essential. The British literature minor will be especially attractive to English majors, majors in other overlapping areas in the humanities such as History, Philosophy, and all students with interdisciplinary interests that include literature.

```
ENL3501 G(W) Periods Early British Lit (3 Credits)
ENL3503 G(W) Periods Later British Lit (3 Credits)
ENL3333 Shakespeare (3 Credits)
SELECT ONE 3000/4000 LEVEL ELECTIVE
```

- Elective must be focused on the early period (may be single-author, themebased, etc.) with the following prefixes: ENL, LIT, or ENG


## SELECT ONE 3000/4000 LEVEL ELECTIVE

- Elective must be focused on the late period (may be single-author, themebased, etc.) with the following prefixes: ENL, LIT, or ENG


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## Minor: Photography

Minor: Photography (15 credits)
A minimum if $50 \%$ of the courses required for any fine arts minor must be taken at UNF.
A minimum of 9 semester hours of upper level courses is required for the photography minor.
A grade of $C$ or better is required for all minor courses.
Courses used in the art major may not be duplicated in any of the art minors. Instead substitute courses will be required.
Courses must be taken in sequence. If a course is a prerequisite for a second course, they may not be taken at the same time. Written permission from the department chair is required to override either of these policies.

PGY2401C Black and White Photography (3 Credits)
PGY3410C Intermediate Photography (3 Credits)
PREREQ: PGY 2401C
SELECT 1 FROM THE FOLLOWING:

- PGY 3820C Digital Imaging for Photo Majors
- PGY 4610 Photojournalism

SELECT 1 FROM THE FOLLOWING:

- ARH 4712 Photohistory 1839-1916
- ARH 4713 Photohistory 1916 to the Present


## SELECT 1 FROM THE FOLLOWING:

- ART 1201C Two Dimensional Design
- ART 2605C Basic Computer Images
- PGY 4610 Photojournalism
- PGY 4228C Advanced Photo Illustration
- PGY 4205C Advanced Lighting Principles
- PGY 3820C Digital Imaging for Photo Majors Note: PGY 2110C is required prior to enrolling in PGY 4201C and PGY 4220C.


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## Minor: Chemistry

Minor: Chemistry ( 20 credits)
All courses required for the minor may be transferred with prior approval of the department chairperson.
A cumulative average of 2.5 is required.
CHEMISTRY 1 REQUIREMENT

- CHM 2045 General Chemistry I
- CHM 2045L General Chemistry I Lab


## CHEMISTRY 2 REQUIREMENT

- CHM 2046 General Chemistry II
- CHM 2046L General Chemistry II Lab

CHM3120C Quantitative Analytical Chemis (4 Credits)
ORGANIC 1 REQUIREMENT

- CHM 2210 Organic Chemistry I
- CHM 2210L Organic Chemistry I Lab

SELECT 4 HOURS FROM THE FOLLOWING:

- CHM 2211 Organic Chemistry II
- CHM 2211L Organic Chemistry II Lab
- CHM 3610 Inorganic Chemistry
- CHM 3610L Inorganic Chemistry Lab
- BCH 4033 Biochemistry
- BCH 4033L Biochemistry Lab
- CHM 4620 Advanced Inorganic Chemistry
- CHM 4200 Solid State Chemistry

Minor: Chemistry (15 credits)
Minor: Chemistry Minor for Biology Majors
All courses for the minor may be transferred with prior approval of the department chairperson.
$A$ grade of $C$ or better is required in each course.
SELECT A MINIMUM OF 15 HOURS

- BCH 4033 Biochemistry
- BCH 4033L Biochemistry Lab
- CHM 3610 Inorganic Chemistry
- CHM 3610L Inorganic Chemistry Lab
- CHM 4130C Modern Analytical Chemistry
- CHM 4260C Advanced Organic Chemistry
- CHM 4410C Physical Chemistry I
- CHM 4411C Physical Chemistry II
- CHM 4612 Advanced Inorganic Chemistry
- CHM 4627 Solid State Chemistry
- CHM 4910 Chemical Research
- CHM 4930 ST: Chemistry
- CHS 4445 Environmental Chemistry
- CHS 4445L Environmental Chemistry Lab


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## Minor: Physics

Minor: Physics (20 credits)
All courses required for the minor may be transferred with prior approval of the department chair.
A cumulative average of 2.5 is required.
PHY2048 Calculus-Based Physics I (4 Credits)
PHY2048L Calculus-Based Physics I Lab (1 Credit)
PHY2049 Calculus-Based Physics II (4 Credits)
PHY2049L Calculus-Based Physics II Lab (1 Credit)
PHY3101 Modern Physics (3 Credits)
PHY3101L Modern Physics Lab (1 Credit)
SELECT 2 FROM THE FOLLOWING:

- PHZ 3113 Mathematical Physics
- PHY 3220 Classical Mechanics
- PHY 3320 Electricity \& Magnetism
- PHY 3424 Optics
- PHY 3722C Electronics for Scientists
- PHY 4604 Quantum Mechanics
- PHY 4523 Thermodyamics \& Statistical Mechanics
- PHZ 3404 Solid State Physics
- PHZ 4304 Nuclear Physics


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## Minor: Chinese

Minor: Chinese (15 credits)
The Chinese minor consists of 15 credit hours above the beginning level: Intermediate Chinese I, Intermediate Chinese II and 3 additional 3000 or 4000 level CHI or CHW electives. Students who place at he 3000 level on the department's computerized placement test may apply for retroactive credit for Intermediate Chinese I and Intermediate Chinese II (see policy on Placement and Retroactive Credit). At least 3 upper-level courses ( 9 semester hours) must be completed at UNF. A grade of " C " or better is required for all minor courses. Students may count a maximum of one of the following courses taught in English toward the Chinese minor:

- CHT 3500 Chinese Language and Culture
- ASH 3402 Traditional China
- ASH 3401 Contemporary China
- PHH 3820 Chinese Philosophy
- PHH 3811 The Philosophy of Zen Buddhism

SELECT 5 CHINESE COURSES
Note: Native/Heritage speakers of Chinese must first consult with a member of the Chinese faculty or the chair of Languages, Literatures and Cultures for appropriate courses to take a Chinese electives.

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## Minor: Political Science

Minor: Political Science (15 credits)
No more than 6 semester hours, or 2 courses may be transferred in to satisfy minor course requirements.
A grade of $C$ or better is required in all minor courses.
POS2041 Intro to American Government (3 Credits)
SELECT 4 COURSES (3000/4000)

- CPO INR PAD POS POT PUP


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## Minor: Classical Civilization

Minor: Classical Civilization (15 credits)
Nine credit hours must be taken at UNF.
Nine credit hours must be upper level (3000/4000)
A grade of C or better is required for all minor courses.
SELECT 1 FROM THE FOLLOWING:

- EUH 3403 Ancient Greece
- EUH 3411 Ancient Rome

SELECT 4 COURSES FROM THE FOLLOWING:
(3 must be taken with different prefixes)

- CLT 4110 Classical Backgroun of Western Literature
- EUH 3403 Ancient Greece
- EUH 3411 Ancient Rome
- LAT 1120 Beginning Latin I
- LAT 1121 Beginning Latin II
- PHH 3100 Ancient Philosophy
- PHH 3120 Greek Experience
- PHH 3104 Socrates \& the Sophists
- PHH 4121 Ancient Greek Ethics
- ASH 3200 Ancient Near East
- PHI 3935 Ancient Philosophy: Selected Topics
- EUH 4103 From Homer to Herodotus
- EUH 4408 Alexander the Great
- ARH 3130 The Art and Architecture of Ancient Greece
- ARH 3150 The Art and Architecture of Ancient Rome Students may also select special topics courses approved by the classical civilization faculty to meet the above requirement.


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## Minor: Psychology

Minor: Psychology (18 credits)
Students must complete the PSY 2012 (General Psychology) prerequisite in order to minor in psychology.
No more than 50\% of the courses required for the minor may be transferred in from another institution.
No more than 3 hrs of lower-level credit may be used to fulfill the minor.
A grade of C or better is required for all minor courses, including prerequisites.
PSY2012 Introduction to Psychology (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- CLP 4143 Psychology of Abnormal Behavior
- DEP 3054 Lifespan Developmental Psychology
- PPE 4003 Personality Theories
- SOP 3004 Social Psychology


## SELECT 1 FROM THE FOLLOWING:

- EXP 3412 Learning Theory
- PSB 3002 Psychobiology
- PSY 3213 Research Methods in Psychology (previously PSY 3214)
- PSY 4604 History of Psychology

SELECT 3 COURSES FROM (3000/4000)

- CBH CLP DEP EAB EXP INP PCO PPE PSY SOP PSB


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## Minor: Communication Studies

Minor: Communication Studies (15 credits)
No more than 6 semester hours of transfer courses can be used for the minor.
A grade of C or better is required in all minor courses and prerequisites.
Majors in Communication may not pursue minors in either of the two communication minors.
Prerequisites must be completed before a second course that requires that prerequisite.
COM3003 Prin of Comm Studies (3 Credits)
SPC2608 Fundamentals of Speech (3 Credits)
SELECT AT LEAST 1 FROM THE FOLLOWING:

- COM 3120 Organizational Communication
- COM 3042 Interpersonal Communication
- COM 4301 Communication Theory \& Research Methods


## SELECT 2 FROM THE FOLLOWING:

- MMC 3620 International Study in Communications
- COM 4430 International Communication
- COM 3440 Small Group Communication
- MMC 3402 Political Advertising
- MMC 3609 Public Opinion \& Persuasion
- COM 3346 Interviewing: Theories \& Methods
- COM 4411 Communication \& Popular Culture
- MMC 4420 Mass Communication Research
- RTV 4403 Media Criticism
- COM 4022 Theory \& Research Methods in Health Communication
- COM 4930 Special Topics in Communication Studies


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## Minor: Public Administration

Minor: Public Administration (24 credits)
Minor: Fast Track
No more than 6 semester hours, or 2 courses may be transferred in to satisfy minor course requirements.
A grade of $C$ or higher is required for all minor courses.
The Public Administration Fast Track undergraduate minor does not guarantee admission to the MPA program. For subsequent application for admission to the Master of Public Administration program, admission requirements for the program must also be met. Fast Track MPA students will need 33 graduate credits to complete the MPA, with PAD6106 Admin. Behavior in Public Organizations waived from the core requirements.

## PREREQS 9 CREDITS

- POS 2041 American Government
- POS 3733 Research Design for Political Scientists
- POS 3734 Research Analysis for Political Scientists For the five courses below (15 credits) select only courses that have not been used to fill Political Science requirements.

PAD4003 Public Administration (3 Credits)
POS3114 Issues State/Local Government (3 Credits)
PUP4003 The Policy-Making Process (3 Credits)
SELECT 1 URBAN POL. CLASS FROM BELOW:

- POS 4167 Urban Policy and Planning
- POS 3142 Politics and Policy in Urban Government
- PAD4XXX Nonprofit Management

SELECT_1 LEGAL CLASS FROM BELOW

- POS 3691 The American Legal System
- POS 4608 Constitutional Law I: Powers and constraints
- POS 4626 Constitutional Law II: Civil rights, civil liberties


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## Minor: Creative Writing

Minor: Creative Writing (15 credits)
In this program, students will develop their creative talents by analyzing the work of both canonical and non-canonical writers; understanding and imitating those writer's techniques and styles; developing and revising work for peer review; critiquing one another's work in workshopstyle courses; and preparing work for submission to recognized journals and contests.
A grade of $C$ or better is required for all minor courses.

## MINOR REQUIREMENTS:

Category A (3-6 credits)
Students may choose at least one and up to two of the following:

- CRW 2000 Intro to Creative Writing
- CRW 2100 Intro to Fiction Writing
- CRW 2201 Intro to Creative Non-Fiction
- CRW 2300 Intro to Poetry Writing
- CRW 2400 Intro to Playwriting
- CRW 2600 Intro to Screenwriting
- CRW 2930 Special Topics in Creative Writing

Category B (9-12credits)
Students must choose at least two and may choose up to four of the following courses (each of which may be repeated for up to 9 credit hours):

- CRW 3110 Fiction Workshop
- CRW 3211 Creative Non-Fiction Workshop
- CRW 3310 Poetry Workshop
- CRW 3424 Playwrights' Project
- CRW 3610 Screenwriting Workshop
- CRW 4924 Adv. Creative Writing Seminar

Courses used in the English Major may not be used to satisfy requirements for the Creative Writing Minor. A minimum of 12 credits must be taken at UNF.

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## Minor: Religious Studies

Minor: Religious Studies (15 credits)
A grade of $C$ or better is required for all minor courses.
A minimum of 6 semester hours of upper level course work must be taken at UNF.
9 semester hours may be transferred in to the minor.

## REL2300 (CD) Comparative Religion (3 Credits) <br> REL3102 CD-Religion as Culture (3 Credits) <br> SELECT 3 FROM THE FOLLOWING:

- ANT 4241 Anthropology of Religion
- ANT 4931 ST: Pilgrams/Sacred Ground
- ANT 4931 ST: Comparative Islamic Cultures
- LIT 3408 Approaches to Literature: Myth
- LIT 3930 ST: Problem of Evil
- AMH 3932 ST: Religion in Antebellum US
- PHI 3700 Philosophy of Religion
- PHH 3811 The Philosophy of Zen Buddhism
- REL 3012 Myths \& Rituals
- REL 3120 Religion in America
- REL 3127 Religion \& the Courts
- REL 3101 Religion \& Popular Culture
- REL 4900 Directed Independent Study
- REL 3145 Women \& Religion: The Western Experience
- REL 3148 Religion \& Violence
- REL 3213 Hebrew Bible/Old Testament
- REL 3241 New Testament
- REL 3293 Selected Topics: Biblical/Scriptural Studies
- REL 3310 Asian Religions
- REL 3330 Religions of India
- REL 3420 20th Century Religious Thought
- REL 3421 Studies in Comtemp Religious Thought
- REL 3505 History of Christian Thought
- REL 3607 Selected Topics in Jewish Studies
- REL 3930 Selected Topics: History of Religion
- REL 3936 Selected Topics: Religious Thought


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## Minor: Criminal Justice

Minor: Criminal Justice (15 credits)
No more than 6 semester hours, or 2 courses, may be transferred in to satisfy minor course requirements.
No more than 3 semester hours, or 1 course carrying lower level numbers may be used to satisfy any minor requirement.
A grade of $C$ or better is required for all minor courses and prerequisites.
CCJ3023 Intro to Criminal Justice (3 Credits)
CCJ3014 Criminological Theory (3 Credits)
CJL4310 Criminal Law and Procedures I (3 Credits)
SELECT 2 COURSES FROM: (3000/4000)

- CCJ CJC CJJ CJL CJT


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## Minor: Social Welfare

Minor: Social Welfare (15 credits)
No more than 6 semester hours, or 2 courses may be transferred in to satisfy minor course requirements.
No more than 3 semester hours, or 1 course carrying lower division numbers may be used to satisfy any minor requirement
A grade of $C$ or better is required for all minor courses.

## PREREQ SELECT ONE FROM BELOW:

- SYG 2000 Introduction to Sociology
- SYG 2013 Sex, Race and Class
- SOW 2031 Introduction to Social Welfare and Social Work

SOW3203 Social Welfare Institutions (3 Credits)
SOW4352 Principles of Soc Serv Prov (3 Credits)

- Prereq: SOW3203

DIVERSITY Select 1 from the following:

- SYD 3800 CD Gender \& Society
- SYD 3700 CD Racial and Cultural Minorities
- ANT 3212 CD-FC Peoples \& Cultures of the World

SELECT 2 FROM THE FOLLOWING:

- SYD 3700 Racial and Cultural Minorities
- SYO 3110 Sexuality \& Marriage
- SYO 4100 Sociology of Family
- SYO 4400 Health, Illness, \& Society
- SYP 3570 Deviance \& Social Control
- SYP 4730 Sociology of Aging
- CJC 3410 Offender Treatment
- CCJ 4681 Family Violence
- CCJ 3010 Juvenile Delinq \& Juvenile Justice
- ANT 3443 The City \& Health
- SYD 4601 Community Organization, Change, \& Development
- SOW 4930 ST: Social Welfare
- SYA 4654 Evaluation Research/Program Analysis
- SOW 4905 Directed Independent Study â€" Social Work


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## Minor: Culture and Philosophy

Minor: Culture and Philosophy (15 credits)
Of the total 15 hours for the minor, 12 must be upper level.
A minimum of 6 semester hours in philosophy must be taken at UNF.
6 semester hours may be transferred towards the minor.
A grade of $C$ or better is required for all minor courses.
Germany Today, The Japanese Mind, and The Greek Experience can not be used as part of the philosophy minor.

PHI3800 Aesthetics (3 Credits)
SELECT 4 COURSES FROM THE FOLLOWING:

- PHI 3880 Philosophy of Film
- PHI 3643 Ethics \& Literature
- PHI 3700 Philosophy of Religion
- PHI 3881 Philosophy of Music
- PHI 3930 ST: Philosophy
- PHI 3931 East \& West: ST
- PHH 3811 Philosophy of Zen Buddism
- PHM 3020 Philosophy of Love \& Sex
- PHP 3786 Existentialism
- PHI 3684 The Art of Living


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## Minor: Sociology

Minor: Sociology (18 credits)
No more than 6 semester hours, or 2 courses may be transferred in to satisfy minor course requirements.
No more than 3 semester hours, or 1 course carrying lower division numbers may be used to satisfy any minor requirements.
A grade of $C$ or better is required for all minor courses.
CHOOSE 1 Sociology Prerequisite

- SYG 2000 Intro to Sociology
- SYG 2013 Sex, Race, Class

SELECT 4 COURSES FROM (3000/4000)
SYA SYD SYG SYO SYP
SYA4010 Sociological Theory (3 Credits)
Prereq: SYG 2000 or SYG 2013 \& 2 upper level Sociology courses

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## Minor: Economics

Minor: Economics (21 credits)
A grade of C or better is required in all courses for the minor in economics, including prerequisites.
At least 6 hours of upper level course work in economics must be completed at UNF. No lower level coursework may be used for required courses in economics without written approval of the Department of Economics Chairperson.
May not use ECO 3632/ ECO 3701/ ECP 3703 in the economics minor.
ECO2013 Principles of Macroeconomics (3 Credits)
ECO2023 Principles of Microeconomics (3 Credits)
ECO3101 Intermediate Microeconomics (3 Credits)
ECO3203 Intermediate Macroeconomics (3 Credits)
ECO3411 Business/Economic Statistics (3 Credits)
SELECT 2 COURSES FROM (3000/4000)

- ECO ECP ECS GEO


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## Minor: Spanish

Minor: Spanish (15 credits)
The Spanish minor consists of 15 credit hours above the beginning level: Intermediate Spanish I, Intermediate Spanish II and 3 additional 3000 or 4000 level SPN or SPW electives. Students who place at the 3000 level on the department's computerized placement test may apply for retroactive credit for Intermediate Spanish I and Intermediate Spanish II (see policy on Placement and Retroactive Credit) At least 3 upper-level courses ( 9 semester hours) must be completed at UNF. A grade of C or better is required for all minor courses.
Note:Native/Heritage speakers of Spanish must first consult with a member of the Spanish faculty or the chair of Languages, Literatures and Cultures for appropriate courses to take as Spanish electives.

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## Minor: Environmental Studies

Minor: Environmental Studies (18 credits)
Students may not duplicate courses to use in both the major and the minor.
Only two transfer courses will apply towards minor requirements.
A grade of $C$ or better is required in all minor courses.
Students will be required to complete all prerequisites needed for individual minor courses.
BSC3057 Intro to Environmental Studies (3 Credits)
PHI3640 Environmental Ethics (3 Credits)
SELECT 2 FROM THE FOLLOWING:

- PHM 2030 Ecological Philosophy
- GEO 3372 Conservation of Natural Resources
- GIS 3043 Intro to Geographical Information Systems
- HIS 3403 Urban Environmental History
- INR 3016 Global Issues in Contemporary Politics
- PUP 4506 Evolution, Society, \& Politics (consent of instructor required)

SCIENCE MAJORS SELECT 2 FROM:

- BOT 2010C Botany
- BOT 3712C Plant Systematics
- BSC 1011C General Biology II
- BSC 3052 Conservation Biology
- BSC 3053 Health Effects of Environmental Pollutants
- BSC 3263 Marine Biology
- BSC 4054 Environmental Toxicology
- CHS 4610/4610L Environmental Chemistry
- PCB 3043C Ecology
- PCB 4301C Limnology
- ZOO 4823C General Entomology

NONSCIENCE MAJORS TAKE 2 FROM:

- BSC 1005C Principles of Biology
- BSC 1930 Current Applications in Biology


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## Minor: Statistics

Minor: Statistics (19 credits)
All courses in the statistics minor except for STA 4322 and STA 4445 may be taken with STA 2014, STA 2023 or STA 3163 as the only prerequisites.
A grade of $C$ or better is required for all minor courses.
PREREQ REQUIREMENT
Select 1 Course From:

- STA 2023 Elementary Statistics for Business
- STA 2014 Elementary Statistics for Health \& Social Sciences

STA3163 (GM)Statistical Methods I (4 Credits)
STA3164 (GM)Statistical Methods II (3 Credits)
SELECT 3 COURSES FROM THE FOLLOWING:

- MAP 4231 Operations Research
- STA 4202 Design of Experiments
- STA 4222 Design of Sample Surveys
- STA 4321 Probability \& Statistics
- STA 4322 Statistical Theory
- STA 4445 Probability Models
- STA 4502 Nonparametric Methods in Statistics
- STA 4664 Statistical Quality Control
- STA 4853 Stat Techniques for Time Series \& Forecasts

Minor: Statistics (16 credits)
Minor: Statistics Minor for BA/BS Mathematics Majors
A grade of $C$ or better is required for all minor courses.
Courses used in the major may not double count in the minor.
STA3163 (GM)Statistical Methods I (4 Credits)
STA3164 (GM)Statistical Methods II (3 Credits)
SELECT 3 COURSES FROM THE FOLLOWING:

- STA 4202 Design of Experiments
- STA 4222 Design of Sample Surveys
- MAP 4231 Operations Research
- STA 4322 Statistical Theory
- STA 4445 Probability Models
- STA 4502 Nonparametraic Methods in Statistics
- STA 4664 Statistical Quality Control
- STA 4853 Stat Techniques for Time Series \& Forecasts


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Minor: Film Studies

Minor: Film Studies (15 credits)

A grade of $C$ or better is required in all minor courses.
Students will be required to complete all prerequisites needed for individual minor courses.
Courses cannot double count in both a major and minor.
SELECT_1 Course from

- LIT 3213 The Art of Critical Reading
- FIL 3006 Analyzing Films

CHOOSE 1 Survey Course

- FIL 3826 American Film Survey
- FIL 3828 International Film Survey

SELECT 3 COURSES FROM :

- FIL 3826 American Film Survey
- FIL 3930 Topics in Film
- FIL 4822 French Cinema
- FIL 3828 International Film Survey
- FIL 4848 World Cinema \& Cross-Cultural Encounter
- FIL 3300 Documentary Studies
- FIL 4931 Advanced Topics in Film
- FIL3006 Analyzing Films
- FIL 4932 Advanced Documentary Studies
- FIL 4900 Independent Study in Film
- PHI 3880 Philosophy of Film
- FIL 4882 Cinema and Culture
- CRW 3930 Screenwriting Workshop
- ENG 4105 Film \& Literature
- LIT 3213 The Art of Critical Reading
- CCJ 4990 Crime \& Mass Media
- LAH 3735 Colonial Latin American History Through Film
- LAH 3736 Modern Latin American History Through Film


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## Minor: Studies in Applied Ethics

Minor: Studies in Applied Ethics (15 credits)
Of the total 15 hours for the minor, 12 must be upper level.
A minimum of 6 semester hours in philosophy must be taken at UNF.
6 semester hours may be transferred towards the minor.
Germany Today, The Japanese Mind, and The Greek Experience cannot be used as part of the minor.

PHI3601 Ethics (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- PHM 3100 Social Philosophy
- PHM 3304 Political Philosophy

SELECT 3 FROM THE FOLLOWING:

- PHI 3633 Bioethics
- PHI 3640 Environmental Studies
- PHI 3641 Business Ethics
- PHI 3670 Moral Conflict
- PHI 3684 The Art of Living
- PHI 3930 ST: Philosophy
- PHI 4453 Philosophy of Psychiatry
- PHI 4674 Lies \& Self Deception
- PHI 4930 Topics is Philosophy
- PHM 3400 Philosophy of Law
- PHM 3050 Ethical Issues in Death \& Dying
- PHM 3362 Global Justice


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## Minor: French

Minor: French (15 credits)
The French minor consists of 15 credit hours above the beginning level: Intermediate French I, Intermediate French II, and 3 additional 3000 or 4000 level French electives (prefixes FRE, FRT, FRW, FOL and FOT). Students who place at the 3000 level on the department's computerized placement test may apply for retroactive credit for Intermediate French I and Intermediate French II (see policy on Placement and Retroactive Credit). At least 3 upper-level courses ( 9 semester hours) must be completed at UNF. A grade of C or better is required for all minor courses. No more than 1 French course (3 hours) taught in English may be included in the minor.
Native/Heritage speakers of French must first consult with a member of the French faculty or the chair of Languages, Literatures and Cultures for appropriate courses to take as French electives.

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## Minor: Theater/Drama

Minor: Theater/Drama (15 credits)
Students may take any 5 courses. No more than 6 semester hours, or 2 courses of transfer credit may be used in the minor. Only 6 semester hours of lower level credit may be used.

SELECT ANY 5 COURSES FROM BELOW LIST:

- THE 2000 Theater Appreciation
- TPP 2100 Acting I
- CRW 2930 Introduction to Playwriting
- THE 3170 Contemporary Drama and Theater
- THE 3110 History of Drama and Theater I
- THE 3111 History of Drama and Theater II
- TPP 3241 Performing Civil Rhetoric
- TPP 3100 Acting II Prereq: TPP 2100 or permission of instructor
- ENL 3333 Shakespeare
- CRW 3424 Playwright's Project CRW 3424 may be repeated for up to 12 hours of credit
- THE 4524 Studies in Drama and Theater
- THE 4904 Independent Study in Drama and Theater
- TPP 4155 Theater Production: Performance
- TPP 4923 Theater Production: Behind-the-scenes THE 4923 may be repeated for up to 12 hours of credit
- THE 4935 Special Topics in Drama and Theater


## Table of Contents

## Minor: Gender Studies

Minor: Gender Studies (15 credits)
No more than 6 semester hours, or 2 courses, may be transferred in to satisfy minor course requirements.
No more than 3 semester hours, or 1 course, of classes carrying lower division numbers may be used to satisfy any minor requirement.
A grade of $C$ or better must be earned in each minor course.
SYD3800 (CD) Gender and Society (3 Credits)
SELECT 4 COURSES FROM THE FOLLOWING:

- SOP 3742 Psychology of Women
- CCJ 4663 Women \& Crime
- HSC 4579 Women's Health Issues
- FOT 3552 Women in the Arab World
- LIT 4930 18th Century Women Novelist
- ASN 3106 Japanese Women
- SYA 4930 Women \& the Law
- LIT 4930 Southern Women Writers
- AML 3621 Black American Literature
- LIT 4930 Irish Women Writers
- LIT 4930 Sense \& Sensibility
- POS 4932 Women/Power Organization
- REL 3145 Women \& Religion: The Western Experience
- SYO 3110 Sexuality \& Marriage


## Table of Contents

## Minor: Urban \& Metropolitan Studies

Minor: Urban \& Metropolitan Studies (15 credits)
Students may count select special topics courses toward the minor, with advance permission of the coordinator.
A single course cannot satisfy requirements for the student's major and the Urban and Metropolitan Studies minor.
Only two transfer courses may be applied toward minor courses.
IDS3213 Introduction to the Metropolis (3 Credits)
CHOOSE 4 FROM THE FOLLOWING:
Students are encouraged to select courses from disciplines other than their major.

- AMH 3460 American Cities \& Suburbs
- POS 4167 Urban Policy \& Planning
- ANT 3443 The City and Health
- ANT4444 Cities \& Globalization
- ECP 3613 Urban Economics
- GIS 3043 Introduction to GIS
- HIS 3403 Nature, Power, \& Metropolis
- SYD 3410 Urban Sociology
- SYD 4601 Community Organization, Change \& Development
- EEX 4794 Educating Urban Students with Diverse Needs


## Table of Contents

## Minor: History

Minor: History (15 credits)
No more than 3 semester hours, or 1 course carrying lower level numbers may be used in the history minor.
A minimum of 12 hours, or 4 courses, must be upper level.
A minimum of 6 semester hours, or 2 courses, must be taken at UNF.
9 semester hours may be transferred towards the minor.
A grade of $C$ or better is required for all minor courses.
SELECT 5 HISTORY COURSES (3000/4000)

- HIS EUH ASN AMH AFH ASH LAH


## Table of Contents

## Minor: Writing Studies

Minor: Writing Studies (15 credits)
The Department of English offers a Writing Studies minor that is a useful complement to any major. This minor will provide students with the opportunity to develop and practice advanced writing skills in a variety of contexts, over several semesters; the competecies needed to be effective, confident, and versatile when facing writing challenges in the workplace; an understanding of the theoretical and historical foundation of written and digital communication. The Writing Studies minor is designed to accommodate students with a wide variety of writing interests, disciplinary major, and professional goals.

- Prerequisites: Three general education writing courses, or equivalents.
- Requirements: Students taking a minor in Writing Studies will complete five upper-level courses for a total of fifteen credit hours. With prior approval from the English department students may elect one writing course from another department All courses must be passed with a grade of $C$ or higher.

CHOOSE minor courses from below:
ENC3310 G(W) Writing Prose (3 Credits)
SELECT A: Writing in the Professions

- ENC 3250 Professional Communication
- CRW 3310 Poetry Workshop
- CRW3110 Fiction Workshop
- CRW3610 Screenwriting Workshop
- CRW 4924 Advanced Creative Writing Workshop
- HIS 3051 Craft of the Historian

SELECT_B: Theory,History, and Design

- ENC3930 Special Topics in Theory and Practice
- ENC4930 Special Topics in Theory and Practice
- LIN3010 Principles of Linguistics
- LIN3930 Special Topics in Linguistics
- LIN4930 Special Topics in Linguistics

Two additional courses from Group A and/or Group B are required. Students must take 5 different courses; i.e., courses may not count as a single course taken as both a required course and an elective.

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## Minor: Interdisciplinary Studies

Minor: Interdisciplinary Studies (15 credits)
This program would enable a student, under the direction of a faculty mentor, to construct a set of courses that focus on a particular educational goal, that complement either a traditional major or an interndisciplinary major, and that prepare the student for career opportunities "outside the boxes" of traditional academic disciplines. All 15 credits must be taken at the upper level. Students cannot transfer more than 6 credits into this minor.

THEME COURSES (6-12 credits)

- Select 2 to 4 THEME COURSES 3000/4000 level for a total of $6-12$ credits.
(must be directly related to exposition topic)
CAPSTONE COURSE (3-9 credits)
- IDS 4910 Liberal Studies Exposition


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## Major: Medical Lab Sc. Certificate <br> Degree: Post-Baccalaureate Certificate

Certificate Requirements (50 credits)
Prerequisite Requirements Students admitted to the Medical Laboratory Sciences Certificate Program must possess a Bachelors of Science or related discipline that includes the following courses or equivalent substitutions.

- General Biology I (BSC1010C)
- General Chemistry I \& II with lab (CHM2045 \& CHM2046 with labs)
- Organic Chemistry I \& II with lab (CHM2210 \& CHM2211 with labs)
- Microbiology (MCB2010C) or Microbial Biology (MCB3020C)
- College Algebra (MAC1105)
- Statistics (STA2014)
- Human Structure and Function (ZOO3733C, 4 cr) or Human Anatomy and Physiology I \& II (BSC2085C \& BSC2086C, 8 cr)
Combination of two of the following three course options:
- Genetics (PCB 3063C)
- Molecular and Cell Biology (PCB2023C)
- Molecular Techniques (MCB4021C)

Requires grades of C or above. Electronic approval must be obtained each semester for courses whose prerequisites are transfers. Please check the catalog course description section for prerequisites required for each course prior to registering. If one course is a prerequisite for another, the two may not be taken together. Students will be administratively withdrawn from courses if earned grades in prerequisite courses are less than a C.

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MLS3038 Essentials of Med Lab Science (1 Credit)
MLS3220 Biological Fluid Analysis (2 Credits)
MLS4191 Molecular Diagnostics (2 Credits)
MLS4550C Immunohematology and Transfus (4 Credits)
MLS4308C Hematology and Hemostasis (4 Credits)
IHS3203 Management and Leadership (2 Credits)
MLS4505 Clinical Immunology (3 Credits)
MLS4462 Diagnostic Virology, Mycology (3 Credits)
MLS4460C Diagnostic Bacteriology (4 Credits)
MLS4627 Clinical Biochemistry (3 Credits)
IHS4938 Senior Seminar for Medical Lab (1 Credit)
MLS4821C Microbiology Practicum
MLS4826C Immunology Practicum
MLS4823C Immunohematology Practicum
MLS4822C Hematology Practicum
MLS4820C Biochemistry Practicum
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## Major: Building Construction <br> Degree: Bachelor of Science

Informational Text
Bachelor of Science in Building Construction: (120 credit hours, w/ a min 60 upper level hrs)

- All course work must be completed with a grade of ' $C$ ' or better, unless otherwise noted.
- Once enrolled at UNF, any remaining prerequisites for the major / minor must be completed at UNF.


## Prerequisites

Building Construction Prerequisites: (12 requirements - 38.0 semester hours)(F07--...)
MAC2233 (GM)Calculus for Business (3 Credits)
STA2023 (GM) Elem Statistics-Business (3 Credits)
BCN1251 Construction Drawing (3 Credits)
BCN1210C Construction Materials (3 Credits)
BCN2405 Introduction to Structures (3 Credits)
CGS1100 Computer Applications for Busi (3 Credits)
CGSx531 or 1570 are acceptable alternatives to CGS1100.
Any course covering the appropriate software may be approved for this requirement if approved by an advisor.
ECO2013 Principles of Macroeconomics (3 Credits)
ECO2023 Principles of Microeconomics (3 Credits)
ACG2021 Prin of Financial Accounting (3 Credits)
BUL3130 Legal Environment of Business (3 Credits)
PHYSICS I Physics I requirement:

- PHY2053+L Algebra Physics I and Lab
* PHY2004 + Lab may be substituted.

PHYSICS II Physics II requirement:

- PHY2054+L Algebra Physics II and Lab
* PHY2005 + Lab may be substituted.


## Business Electives

Building Construction - Business Electives: (1 course - 3.0 semester hours)[Sp13-]
SELECT One business elective:

- REE 4043 Real Estate Analysis
- ACG2071 Princ of Managerial Accounting
- MAR3023 Principles of Marketing


## Core Requirements

Building Construction Core: ( 20 courses -58.0 semester hours)[Sp13-]
Note: BCN 4944 -- Internship students will work with internship faculty advisor to secure their internship placement. Students must have a signed internship agreement prior to the first day of class.

BCN2280 Surveying: Construction Layout (3 Credits)
BCN3223 Soils and Foundations (3 Credits)
BCN3224 Construction Techniques (3 Credits)
BCN3611C Construction Cost Estimating (3 Credits)
BCN3762 Building Const Design and Code (3 Credits)

BCN3782 Intro Construction Computing (3 Credits)
BCN4431 Structural Systems (3 Credits)
BCN4591C Mech and Elec Sys (3 Credits)
BCN4612 Advanced Construction Estimati (3 Credits)
BCN4708 Construction Documents/Contrac (3 Credits)
BCN4709 Construction Proj Mgt Cap (3 Credits)
BCN4720 Constr Project Plan/Scheduling (3 Credits)
BCN4730 Construction Safety (3 Credits)
BCN4753 Construction Admin/Economics (3 Credits)
BCN4759 Const Fin and Cost Cont (3 Credits)
BCN4931 Seminar:Construction Mgt (1-3 Credits)
BCN4944 Construction Management Intern (3 Credits)
(Note: Internship can be taken for up to 6 credit hours -- 3 hrs for Internship credit
and 3 hrs for elective credit.)
MAN3025 Administrative Management (3 Credits)
SELECT 6 hrs of electives:

- BCN 3012 History of Construction
- BCN 4240 Construction Equipment
- BCN 4587C Green Construction/Sustainability
- BCN 4751C Housing \& Land Development
- BCN 4775 International Construction
- BCN 4870C Heavy/Civil Construction
- BCN 4871C Commercial Construction
- BCN 4801C Industrial Construction
- BCN 4944 Constr Mgmt Internship (3-5hr)
- BCN 4956 Study Abroad: Construction Management
(Note: Internship can be taken for up to 6 hrs -- 3 hrs for internship and 3 hrs for elective credit. An extra elective may be taken in the place of the internship requirement. Study Abroad may be taken for a maximum of 9 credit hours.)


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## Minor: Computer Science

Minor: Computer Science
Minor: Computer Science (University-wide) (29.0 credits)
All coursework in the minor must be completed with a grade of 'C' or better.
Conditions for the minor:

1. This minor is not available to majors in Computing and Information Sciences.
2. At least 14 hours of upper-level coursework in the minor must be taken at UNF.
3. A "one repeat" rule is enforced. Students not completing a CIS prereq or core requirement on the first attempt, including W, WP, or WF, will have only one chance to repeat the course.

## CompSci Prerequisites

Computer Science Minor (University-wide) Prerequisites (7.0 credits)
MAC2311 (GM) Calculus I (4 Credits)
COP2220 Computer Science I (3 Credits)

## CompSci Minor Req'ments

Computer Science Minor (University-wide) Requirements -- (22.0 credits)
COT3100 Computational Structures (3 Credits)
COP3503 Computer Science II (3 Credits)
COP3530 Data Structures (4 Credits)
SELECT 4 courses (min of 12 hrs ):

- CAP 4630 Intro to Artificial Intelligence
- CAP 4660C AI Robotics
- CAP 4710 Computer Graphics
- CAP 4770 Data Mining
- CDA 3101 Intro to Computer Hardware
- CDA 4102/4102L Intro to Computer Architecture \& Lab
- CDA 4312/4312L Microprocessor Interfacing \& Lab
- CNT 4504 (CEN4516) Networks \& Distributed Processing
- CEN 4610 Knowledge Engineering
- CIS 4251 Software Development
- COP 3601 Intro to System Software
- COP 4300 Discrete Systems Modeling/Simulation
- COP 4610 Operating Systems
- COP 4620 Construction of Language Translators
- COP 4710 Data Modeling
- COP 4813 Internet Programming
- COT 3210 Computability/Automata
- COT 4400 Analysis of Algorithms
- COT 4560 Applied Graph Theory
-     - CDA4102 and CDA4312 must be taken with the corresponding lab.
-     - Other qualifying elective courses may be offered as
- Special Topics. See Computing for approved list.


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## Minor: Electrical Engineering

Minor: Electrical Engineering
Minor: Electrical Engineering (49.0 hours)
All coursework in the minor must be completed with a grade of ' C ' or better.
Students are responsible for any prerequisites for listed courses.
A minimum of 17.0 hours of upper level coursework must be taken at UNF.

## Electrical Engineering Prereqs

Electrical Engineering Prerequisites: (10 courses -32.0 hrs )
MAC2311 (GM) Calculus I (4 Credits)
MAC2312 (GM) Calculus II (4 Credits)
MAC2313 (GM) Calculus III (4 Credits)
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
PHYSICS.I PHY2048 \& PHY2048L
PHYSICS.II PHY2049 \& PHY2049L
SELECT 1 of the following:

- COP2220 Computer Science I
- COP2200 Intro to FORTRAN Programming

SELECT 1 of the following:

- CDA3101 Intro to Computer Hardware
- EEL3701C Intro to Digital Systems


## EE Minor Requirements

Electrical Engineering Minor Requirements: (6 courses - 17.0 hours)
EEL3111 Circuit Analysis I (3 Credits)
EEL3112 Circuit Analysis II (3 Credits)
EEL3303L Electrical Circuits Laboratory (1 Credit)
EEL3304 Electronic Circuits I (3 Credits)
EEL4744C Microcontroller Applications (4 Credits)
SELECT 1 of the following:

- EEL3135 Signals and Systems
- EEE4309C Electronic Circuits II


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## Minor: Construction Management

Minor: Construction Management
Minor: Construction Management (30 hrs)
All coursework in the minor must be completed with a grade of ' C ' or better.
Conditions for the minor:

1. This minor is not available for majors in Construction Management.
2. At least 12 hours of upper-level coursework in the minor must be taken at UNF.
3. Students seeking a minor in Construction Management must adhere to all policies stated in the UNF catalog regarding Construction Management and the College of Computing, Engineering, and Construction.

PREREQS: Construction Mgmt (18 hrs)

- ACG 2021 Financial Accounting
- BUL 3130 Legal Environment of Business
- MAC 2233 Calculus for Business (or MAC2311 Calculus I)
- BCN 1251 Construction Drawing
- BCN 1210C Construction Materials (or CGN 3501C Civil Engineering Materials)
- BCN 2405 Intro to Structures (or EGN 3311 Statics)

REQUIRED Const Mgmt Core (9 hrs)

- BCN 3611 Construction Cost Estimating
- BCN 3224 Construction Techniques
- BCN 4720 Construction Scheduling

SELECT Const Mgmt Elective (3 hrs)
Select one 4000-level Construction Management course.*

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## Minor: Information Science

Minor: Information Science (26 credits)
Minor: Information Science
All coursework in the minor must be completed with a grade of ' C ' or better.
Conditions for the minor:

1. This minor is not available for majors in Computing and Information Sciences.
2. At least 14 hours of upper-level coursework in the minor must be taken at UNF.
3. A "one repeat" rule is enforced. Students not completing a CIS prereq or core requirement on the first attempt, including W, WP, or WF, will have only one chance to repeat the course.

## InfoSci Prerequisites

InfoSci Minor Prerequisites: (9.0 hours)
CGS1570 Microcomputer Applica Software (3 Credits)
COP2551 Introduction to OO Programming (3 Credits)
COP2010 Intro to Visual Proc Prog (3 Credits)

## InfoSci Minor Requirements

InfoSci Minor Requirements: (17.0 hours)
(Note: COT3100 has a pre-req of MAC2311 or MAC2233.)
COT3100 Computational Structures (3 Credits)
COP3538 Data Structures Using OOP (4 Credits)
(COP3540 was renumbered Fall 2011)
COP3855 Web Access and System Design (4 Credits)
COP4720 Database Systems (3 Credits)
SELECT one of the following:

- CNT 4504 Comp Networks \& Distributed Processing
- COP 4813 Internet Programming


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## Major: Coastal Port Eng. Certificate <br> Degree: Undergraduate Certificate

Certificate Requirements (19 credits)
( 7 courses - 19.0 credit hours)
Coastal and Port Engineering Certificate: Conditions for the Certificate:

1. All coursework must be completed at UNF.
2. All coursework must be completed with a grade of "C" or better.
3. Must be enrolled in an Engineering BS program.

REQUIRED Courses (10 credits)

- CGN1XXX (3 cr) Intro to Coastal and Port Engineering
- CGN1XXX (3 cr) Field Lab: Coastal and Port Engineering
- CGN4803 (1 cr) Senior Capstone I
- CGN4804 (3 cr) Senior Capstone II

SELECT-ONE of the following ( 3.0 crs ):
Select at least one of the following courses:

- CWR4XXX (3 cr) Engineering Hydrology
- STA3032 (3 cr) Engineering Statistics
- CGN4931 (3 cr) Coastal Processes
- CGN2XXX (3 cr) Design of Coastal and Port Structures and Infrastructures

SELECT-TWO courses from the following:
Select an additional 2 courses ( 6 cr ) from the following:

- TTE4004 (3 cr) Transportation Engineering
- TRA4202 (3 cr) Logistics Systems Management
- CGN1XXX (3 cr) Intro to Coastal and Estuarine Modeling
- CWR4XXX (3 cr) Water Resources Systems
- CGN4xxx (3 cr) Major River Systems of Florida
- CGN4931 (3 cr) ST: Coastal Processes
- CWR4XXX (3 cr) Engineering Hydrology
- STA3032 (3 cr) Engineering Statistics
- CGN2XXX (3 cr) Design of Coastal and Port Structures and Infrastructures
- Internship in Coastal or Port Engineering
- Other electives may be taken if approved by Program Director


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## Minor: Professional Education

Minor: Professional Education (20 credits)
Students must earn a "C" grade or higher and an overall 2.5 GPA in the minor. Must get registration approval for all minor courses from College of Education.

EDF1005 Intro to Teaching Profession (3 Credits)
EDF3151 Educational Psychology (3 Credits)
EDF3945 Field Laboratory I (2-4 Credits)

- Must be taken concurrently with EDG 3323

EDG3323 The Learning Process (3 Credits)
EDF4444 Assessment of Learn/Behavior (3 Credits)

- Prereq is EDG 3323


## CHOOSE One of the following:

EDG 4410 Classroom Management Communication
OR
EEX3202 Psy/Soc of Exceptional Learners
**EEX 3202 Is only approved for the minor.
METHODS Select 1 Methods course:
Select a Methods course from the following list that pertains to your major:

- ARE 4353 Teaching Art with Focus
- LAE 4335 Spec. Methods: Second. Eng (prereq:EDF 3945) (Fall \& Spring Only)
- MAE 4330 Spec.Methods: Second.Math (prereqs:EDF3945 and EDG 3323) (Fall Only)
- SSE 4384 Special Methods: Social Studies(prereq: EDF3945 and EDG 3323 (Fall \& Spring only)
- SCE4330 (prereq: EDF3945 \& EDG 3323) (Fall only)
- PET 3713 Special Methods: Cur. K8-K-12
- FLE 4333 Special Methods: Foreign Language (Fall only)
- EEX 4255 Curriculum \& Inst: Learn. Except (Spring only)
- HSC 3304 Instruct. Methods in Health Ed.
- MUE 4311 Music Education Elementary School
- MUE4330 Music Education Secondary School ***(NOTE: Music Majors should take both MUE 4311 \& 4300)
- RED 3333 Secondary Reading Methods (For Business and Communication majors only)
- RED 3310 Elementary Reading Methods (For Business and Communication majors only)


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## Minor: Community Leadership

Minor: Community Leadership (12 credits)

> 3 CREDIT HOURS CAN BE TRANSFERRED INTO ELECTIVE AREA ONLY. ALL OTHER COURSES MUST BE TAKEN AT UNF. A GPA OF 2.5 IS REQUIRED FOR THE MINOR. For additional information on the Community Leadership minor, please contact the Institute for Values, Community, and Leadeship (IVCL). The IVCL is located in the College of Education and Human Service's Petway Hall (Building 57), room 2750 .

LDR3003 Introduction to Leadership (3 Credits)
LDR3320 Collaborative Leadership (3 Credits)

- OR LDR 3240 Inter-Group Dialogue
- OR SOP 3515 Foundations of Conflict Transformation

LDR4263 Community Leadership Practicum (3 Credits)
ELECTIVE Select 1 course from:
WE STRONGLY SUGGEST AN ELECTIVE CHOICE THAT ALIGNS WITH MAJOR TO ENHANCE YOUR CHOSEN AREA OF STUDY.

- EDUCATION MAJORS:
- LDR 4340 Resource Development for Community Organiz.
- COMPUTING/ENGINEERING/CONSTRUCTION MAJORS:
- BCN 4956 Abroad in Construction Management
- BCN 4709 Construction Management Project Captstone
- BCN 4944 Construction Management Internship
- CIS 4253 Legal and Ethical Issues in Computing
- EGN 3038 Leadership for Engineers
- EGN 4032 Engineering and Professional Issues
- HONORS:
- H3920 Honors Colloquium
- ARTS AND SCIENCES MAJORS:
- SPC 4064 Public Speaking for Professionals
- COM 4430 International Communication
- MMC 4975 Internship Senior Project
- COM 3440 Small Group Communication
- PUR 4800 Public Relations Campaigns
- PAD 4027 Issues in Public Management
- SOP 3004 Social Psychology
- SYD 4601 Community Organization, Change \& Development
- SOW 4511 Community Agency Practicum
- ANT 4272 Political Anthropology
- SYO 4300 Political Sociology
- SYP 4351 Social Movements and Social Change
- SYP 4411 Sociology of War \& Peace
- PHI 3601 Ethics
- PHI 3640 Environmental Ethics
- PHI 3641 Business Ethics
- MSL 4301 Adaptive Leadership
- MSL 3201 Adaptive Team Leadership
- BSC 3057 Intro to Environmental Studies
- BSC 4940 Internship in Applied Biology
- CCJ 4940 Internship in Criminal Justice
- CRW 3424 Playwright's Project
- ENC 3250 Professional Communications
- ENC 3310 Writing Prose
- ENG 4013 Approaches to Literary Interpretation
- FIL 4932 Advanced Documentary Studies
- LIT 4041 Studies in Drama
- TPP 3101 Acting II
- LAH 3955 Latin America Abroad
- BUSINESS MAJORS:
- ACG 4956 Study Abroad in Accounting
- ECO 4956 Study Abroad in Economics
- FIN 4941 Finance Internship
- FIN 4956 Study Abroad in Finance
- GEB 3214 Students in Free Enterprise/Prof Devel Prgm
- GEB 3361 International Business Internship
- GEB 4113 Entrepreneurship
- GEB 4942 Entrepreneurial Internship
- GEB 4956 Study Abroad in Business
- GEO 4956 Study Abroad in Geography
- MAN 4064 Organizational Ethics: A Global Perspective
- MAN 4143 Effective Business Leadership
- MAN 4201 Organizational Theory
- MAN 4240 Organizational Behavior
- MAN 4441 Negotiations
- MAN 4600 International Management
- MAN 4942 Management Internship
- MAR 4400 Professional Selling
- MAR 4941 Internship in Marketing \& Supply Chain Manag
- MAR 4943 International Marketing Internship
- MAR 4956 Study Abroad in Marketing
- TRA 4945 Logistics Internship
- TRA 4956 Study Abroad in Transportation in Logistics
- HEALTH MAJORS:
- PET 3660 Athletic Training Admin
- PET 4676C Athletic Training Clinical Experience
- PET 4942 Internship in Excercise Science
- NUR 3816 Professional Nursing Concepts
- NUR 4636C CommunityPartnership and Nursing Pract.
- NUR 4826 Applied Nursing Ethics
- NUR 4827 Leadership and Management in Nursing
- NUR 4945 Professional Nursing Integration
- HSA 4553 Health Law and Ethics
- HSA 4850 Health Adm. Internship
- HSA 4922 Capstone: Health Administration
- HSA 4941 Long-Term Care Administration Internship
- HSA 4955 Study Abroad Health
- HSA 4970 Senior Capstone Project
- HSC 3032 Foundations of Community Health
- HSC 3661 Health, Human Relations, and Interp Skills Bldg
- HSC 3949 Experiential Studies in Health Science
- HSC 4652 Health Care Ethics \& Cultural Diversity
- HSC 4814 Community Health Internship
- DIE 4515 Nutrition \& Dietetics Professional Capstone
- DIE 3310 Community Nutrition


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## Major: Nursing <br> Concentration: Clinical Nurse Spec-PT <br> Degree: Master of Science in Nursing

1st Semester (6 credits)
Fall semester
NGR5141 Advanced Pathophysiology (3 Credits)
NGR5172 Pharmacotherapeutics (3 Credits)

2nd Semester (6 credits)
Spring semester
NGR5810 Research Methods for EBP (3 Credits)
NGR5110 Theory Framework for Practice (3 Credits)

3rd Semester (3 credits)
Summer semester
Students are encouraged to begin Projects or Thesis in Third semester for 3 semester hours.
SELECT ONE OF THE FOLLOWING

- NGR6970 Nursing Project
- NGR6971 Nursing Thesis


## 4th Semester (6 credits)

Fall semester
NGR5003C Health Assessment/Diagnostics (3 Credits)
SELECT ONE COURSE FROM THE FOLLOWING

- EDA6302 Lifelong Learning and Professional Development
- EDG6626 Curriculum and Instruction for Adult Learner

5th Semester (6 credits)
Spring semester
NGR5780C Clinical Nurse Specialist I (3 Credits)
SELECT NURSING PROJECT OR THESIS

- NGR6970 Nursing Project - If Project was not completed in Third semester, students must register for up to 3 additional hours of NGR6970 in Fifth semester.
- NGR6971 Nursing Thesis - Students choosing Thesis option in Third semester must register for 3 additional hours of NGR6971 in Fifth semester.

6th Semester (3 credits)
Summer semester
NGR6637C Clinical Nurse Specialist II (3 Credits)

## 7th Semester (6 credits)

Fall semester
NGR6711C Clinical Nurse Specialist III (3 Credits)
SELECT ONE COURSE FROM THE FOLLOWING

- EDA6302 Lifelong Learning \& Professional Development
- EDG6626 Curriculum \& Instruction for Adult Learning

Spring semester
NGR6740 Advanced Nursing Practice Role (3 Credits)
NGR6940C Clinical Nurse Spec Practicum (4 Credits)

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## Major: Health Science <br> Concentration: Aging Services Management <br> Degree: Master of Science in Health

Prerequisites
Students entering this program without an undergraduate degree in health administration or business administration must complete prerequisite course work in Financial Accounting (ACG2021).
00001

Core Requirements (12 credits)
HSA6225 Long-Term Care Administration (3 Credits)
GEY6103 Aging Health Multicultural Soc (3 Credits)
GEY6623 Aging and Health Policy (3 Credits)
GEY6409 Applied Research in Aging (3 Credits)

Major Requirements (18 credits)
HSA5177 Health Care Finance (3 Credits)
HSA6114 Health Organization/Delivery (3 Credits)
HSA6186 Healthcare Leadership (3 Credits)
HSA6342 Healthcare Human Resources (3 Credits)
HSA6425 Health Law (3 Credits)
HSA6385 Quality Management Health Care (3 Credits)

Capstone Experience (6 credits)
SELECT ONE CAPSTONE OPTION

- HSA 6945 Long Term Care Internship (includes pre-internship module)
- HSA 6813 Aging Capstone (may be completed for 3 semester hours over two terms, or for 6 semester hours over one term)

Major Electives (3 credits)
SELECT ONE ELECTIVE
Elective course may be selected from GEY, HSA, HSC, PHC, MAN and PAD
courses. Course from other areas may be taken with Program Director approval.

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## Major: Nursing <br> Concentration: RN-MSN Bridge <br> Degree: Master of Science in Nursing

| Prerequisites (27 credits) |
| :--- |
| Must be completed with a grade of "C" or higher |
| SELECT One social science course |
| Any PSYXXXX, SOPXXXX, or SYGXXXX is acceptable. |
| **PSY2012 is a required prerequisite to DEP3054 at UNF. |
| DEP3054 Lifespan Developmental Psych (3 Credits) |
| DEPX004, DEPX054, DEPX000, DEPX414, or any Human Growth and Development |
| across the Life Span may be substituted for DEP3054. |
| STA2014 (GM)Elem Statistics-Health/SS (3 Credits) |
| STAX014, STAX023, STAX122, STAX022, or any Statistic course maybe be |
| substituted for STA 2014. |
| HUN2201 Basic Prin Human Nutrition (3 Credits) |
| HUNX201, NURX192 or any Human Nutrition course may be substituted for HUN |
| 2201. |
| MCB2010C Microbiology (4 Credits) |
| MCBX010C, MCBX010/X010L, MCBX013c, MCBX013/X013L, MCBX000/X000L, |
| MCBX004/X004L, or any Microbiology with lab may be substituted for MCB 2010C. |
| BSC2085C Human Anatomy and Physiology I (4 Credits) |
| BSCX085c, BSCX085/X085L, BSCX093c, BSCX093/X093L, or any Human Anatomy |
| and Physiology I or Human Anatomy. |
| BSC2086C Human Anatomy \& Physiology II (4 Credits) |
| BSCX086c, BSCX086/X086L, BSCX094c, BSCX094/X094L, or any Human Anatomy |
| and Physiology II or Human Physiology. |
| SELECT Additional science course |
| Any CHMXXXX, BCHXXXX, BSCXXXX, PCBXXXX, or PHYXXXX with a minimum of |
| 3 credit hours is acceptable. |
| **BSC1010c and CHM2045/2045L are required prerequisites to MCB2010c at UNF. |

1st Semester (8 credits)
Summer semester
NUR3065L Health Assessment (3 Credits)
NUR3619 Family/Community Assessment (3-4 Credits)
NUR3166 Nursing Science I (1 Credit)

2nd Semester (11 credits)
Fall semester
NUR3082C Transition Concepts/Practice (4 Credits)
NUR3167 Nursing Science II (2 Credits)
NUR4826 Applied Nursing Ethics (2 Credits)
NGR5141 Advanced Pathophysiology (3 Credits)

3rd Semester (8 credits)
Spring semester
NUR4636C Comm Partnerships/Nur Practice (5 Credits)
NGR5110 Theory Framework for Practice (3 Credits)

ELECTIVE Graduate Level Elective

## 5th Semester (9 credits)

Fall semester
NGR5003C Health Assessment/Diagnostics (3 Credits)
NGR5172 Pharmacotherapeutics (3 Credits)
HSA6114 Health Organization/Delivery (3 Credits)

6th Semester (9 credits)
Spring semester
NGR5601C Advanced Nursing Practice I (3 Credits)
NGR5810 Research Methods for EBP (3 Credits)
NGR6740 Advanced Nursing Practice Role (3 Credits)

7th Semester (6 credits)
Summer semester
NGR6602C Advanced Nursing Practice II (3 Credits)
NGR6970 Nursing Project (1-3 Credits)

8th Semester (7 credits)
Fall semester
NGR6603C Advanced Nursing Practice III (6 Credits)
NGR6970 Nursing Project (1-3 Credits)
Take NGR6970 - Nursing project in 8th semester if needed.

9th Semester (5 credits)
Spring semester
NGR6941C Primary Care Practicum (4 Credits)
NGR6970 Nursing Project (1-3 Credits)
Take NGR6970 - Nursing Project in 9th semester if needed.

NCLEX Validation Credit (30 credits)
Thirty hours of Validation Credits are awarded in the student's third semester of enrollment. These 30 hours are awarded based upon validation of previous nursing knowledge through satisfactory completion of NCLEX examination within two years of enrollment. Other methods for awarding of 30 hours of validation credits are available .

NUR3000X

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## Major: Health Science

## Concentration: Orthopaedic Physical Therapy

Degree: Master of Science in Health

Informational Text
Please note the following:

- Physical Therapist License is required prior to admission.
- Refer to the UNF graduate catalog for prerequisites to individual courses.
- Unless a course is identified as a repeatable for credit, you may receive credit for a course only once. However, your GPA will reflect all repeated courses.
- A minimum GPA of 3.0 is required to progress in the program.
- Faculty Advisor approval is required prior to registering for course work at another institution.
- Apply for graduation on-line through myWings or in the One Stop Student Services Office by the fourth week of the semester you are graduating. See university catalog for specific deadlines.

1st Semester (9 credits)
PHT6553C PT Resid: Appl Prin Clin Pra I (3 Credits)
PHT6554C PT Resid: Adv Prin Clin Pra II (3 Credits)
PHT7775C Ortho PT Res: Adv Mngmt Up Ext (3 Credits)

2nd Semester (3 credits)
PHT7773C Ortho PT Res: Adv Mngmnt Spine (3 Credits)

3rd Semester (9 credits)
PHT6940C Advanced Clinical Residency (3 Credits)
PHT7774C Ortho PT Res: Adv Mgmt Low Ext (3 Credits)
PHT7880C Advanced Clinical Integration (3 Credits)

Required Courses ( 12 credits)
HSC6512 Biostats I Public Health (3 Credits)
HSC6735 Health Science Research (3 Credits)
PHT6971 Masters Thesis (1-3 Credits)

## Table of Contents

## Major: Accounting <br> Concentration: Taxation Concentration <br> Degree: Master of Accountancy

## Prerequisites (27 credits)

(non-business majors) 27 hours of business subjects are required with a grade of C or better. Students who have completed their bachelor's degree in business will normally have completed these courses. All prerequisites must be completed before enrolling in 6000-level coursework.

```
ACG2021 Prin of Financial Accounting (3 Credits)
                            (or substitute both ACG2001 & ACG2011 for ACG2021)
ACG2071 Prin Managerial Accounting (3 Credits)
BUL3130 Legal Environment of Business (3 Credits)
ECO5115 Introduction Economic Analysis (3 Credits)
(or substitute both ECO2013 & ECO2023 for ECO5115)
FIN5405 Essentials of Managerial Finan (3 Credits)
(or substitute both ACG2021 \& FIN3403 for FIN5405)
MAN3025 Administrative Management (3 Credits)
MAN4720 Strategic Mgmt Business Policy (3 Credits)
You must apply on-line at unf.edu/coggin in order to get permission to register for this course.
```

MAR3023 Principles of Marketing (3 Credits)
STA2023 (GM) Elem Statistics-Business (3 Credits)

Foundation (21 credits)
(non-accounting majors) 21 hours in accounting are required with a grade of " C " or better.
ACG3103 Intermediate Accounting I (3 Credits)
ACG3113 Intermediate Accounting II (3 Credits)
ACG3123 Intermediate Accounting III (3 Credits)
ACG4361 Cost Accounting (3 Credits)
ACG4401 Accounting Information Systems (3 Credits)
ACG4651 Auditing (3 Credits)
TAX3001 Federal Income Tax (3 Credits)

Major Requirements (33 credits)
This program requires 33 hours of 6000 -level courses. A minimum of 24 hours must be earned at UNF. Students seeking a second masters degree must complete at least 24 semester hours of new coursework at UNF. A 3.00 GPA is required.

## Core requirements-Tax

24 credit hours are required. Most ACG and TAX courses are offered only once per year.
ACG6309 Advanced Man Accounting Theory (3 Credits)
ACG6405 Advanced Account Info Systems (3 Credits)
ACG6645 Auditing Theory (3 Credits)
ACG6805 Advanced Accounting Theory (3 Credits)
ECO6415 Making Decisions with Data (3 Credits)
FIN6406 Advanced Financial Management (3 Credits)
TAX6045 Tax Research and Writing (3 Credits)

TAX6105 Taxation in Business Corp (3 Credits)

## Major electives-Tax

SELECT Three TAX courses
6000 level. Excluding TAX6726, TAX6045, or TAX6105. (Tax courses are normally offered only once per year)

## Table of Contents

## Major: General Business <br> Concentration: Global Entrepreneurship <br> Degree: Master of Business Admin.

Informational Text

- All students must be fully admitted into the Global EntrepreneurshipMBA.
- Students must earn a "C" or higher in all courses.
- Student must have 3.0 GPA or higher to graduate
- Student earn a UNF MBA \& an MBA in Entrepreneurship.

Semester in London (12 credits)
European Business School London - London, UK
ACG6305X Financial Managerial Acctg
GEB6001X Entrepr. Theory \& Practice
SELECT one course from list
GEB6002X Emerging Economy Enterprise GEB6409X Green non-for-profit Enterprise

Spring Semester at UNF (12 credits)
University of North Florida - Jacksonville, Florida
ECO6415 Making Decisions with Data (3 Credits)
ECP6705 Economics of Business Decision (3 Credits)
MAN6204 Organizational Theory (3 Credits)
MAR6805 Marketing Strategy (3 Credits)

Summer Semester at UNF (12 credits)
University of North Florida - Jacksonville, Florida
FIN6406 Advanced Financial Management (3 Credits)
ISM6021 Mgmt Information Technology (3 Credits)
MAN6501 Modeling/Management Operations (3 Credits)
MAN6726 Advanced Strategic Management (3 Credits)

Semester in Paris (12 credits)
European Business School - Paris, France
GEB6404X Intl Marketing Strategy
GEB6405X Intl Bus Entrepreneurship Proj
GEB6406X Geopolitical Strategy
GEB6407X Intl Bus \& Entrep Strategy

## Table of Contents

## Major: Accounting <br> Degree: Master of Accountancy

## Prerequisites (27 credits)

(non-business majors) 27 hours of business subjects are required with a grade of C or better. Students who have completed their bachelor's degree in business will normally have completed these courses. All prerequisites must be completed before enrolling in 6000-level coursework.

```
ACG2021 Prin of Financial Accounting (3 Credits)
    (or substitute both ACG2001 & ACG2011 for ACG2021)
ACG2071 Prin Managerial Accounting (3 Credits)
BUL3130 Legal Environment of Business (3 Credits)
ECO5115 Introduction Economic Analysis (3 Credits)
    (or substitute both ECO2013 & ECO2023 for ECO5115)
FIN5405 Essentials of Managerial Finan (3 Credits)
    (or substitute both ACG2021 & FIN3403 for FIN5405)
MAN3025 Administrative Management (3 Credits)
MAN4720 Strategic Mgmt Business Policy (3 Credits)
    You must apply on-line at unf.edu/coggin in order to get permission to register for
    this course.
```

MAR3023 Principles of Marketing (3 Credits)
STA2023 (GM) Elem Statistics-Business (3 Credits)

## Foundation (21 credits)

(non-accounting majors) 21 hours in accounting are required with a grade of " C " or better.

```
ACG3103 Intermediate Accounting I (3 Credits)
ACG3113 Intermediate Accounting II (3 Credits)
ACG3123 Intermediate Accounting III (3 Credits)
ACG4361 Cost Accounting (3 Credits)
ACG4401 Accounting Information Systems (3 Credits)
ACG4651 Auditing (3 Credits)
TAX3001 Federal Income Tax (3 Credits)
```

Major Requirements (33 credits)
This program requires 33 hours of 6000 -level courses. A minimum of 24 hours must be earned at UNF. Students seeking a second masters degree must complete at least 24 semester hours of new coursework at UNF. A 3.00 GPA is required. A MACC student may not make less than a "C" in any course.

## Core Requirement-MACC

21 semester hours are required. Most ACG and TAX courses are only offered once a year.
ACG6309 Advanced Man Accounting Theory (3 Credits)
ACG6405 Advanced Account Info Systems (3 Credits)
ACG6645 Auditing Theory (3 Credits)
ACG6805 Advanced Accounting Theory (3 Credits)
ECO6415 Making Decisions with Data (3 Credits)
FIN6406 Advanced Financial Management (3 Credits)
TAX6105 Taxation in Business Corp (3 Credits)

## Major electives-MACC

At least six hours must be in ACG or TAX courses.
CHOOSE Three courses
(9 credit hours) at the 6000 level - ACG/FIN/REE/TAX

## Business elective-MACC

SELECT One course

( 3 credit hours) 6000 LEVEL non-Accounting
BUL/ECO/ECP/FIN/GEB/ISM/MAN/MAR/QMB/REE/TRA

## Table of Contents

## Major: General Business <br> Concentration: GlobalMBA <br> Degree: Master of Business Admin.

Informational Text

| - All students must be fully admitted into the GlobalMBA |
| :--- |
| - Students must earn a "C" or higher in all courses |
| - Students must meet the thesis requirement in order to complete this program |
| - Students earn a M.B.A. \& a M.A. in International Management and Intercultural |
| Communication |
| Semester in Germany (21 credits) |
| Cologne University of Applied Sciences - Cologne, Germany |
| ACG6305X International Mgmt Accounting |
| ECO6101X Business Strategy/Game Theory |
| ECO6415X Decisions with Data |
| ECP6705X Global Economic/Thesis Seminar |
| MAN6101X Intercultural Communication |
| MAN6102X Applied Intercultural Communic |
| MAN6111X Business Environment |
| Semester in Poland (18 credits) |
| Warsaw University - Warsaw, Poland |
| FIN6406X Advanced Financial Management |
| ISM6021X Mgmt Information Systems |
| MAN6202X Applied Intercultural Communic |
| MAN6204X Organizational Theory |
| MAN6211X Business Environment |
| MAN6601X International Management |
| MAR6158 International Marketing (3 Credits) |
| MAN6605X International Finance |
| MAN6302X Applied Intercultural Communic |
| MAN6311X Business Environment |
| MAN6666 App Intcltrl Comm US (3 Credits) |
| MAN6501 Modeling/Management Operations (3 Credits) |
| Memester at UNF (15 credits) |
| Dongbei University of Finance and Economics - Dalian, China |
| MAnersity of North Florida - Jacksonville, Florida |
| MAN China (9 credits) |

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## Major: General Business <br> Concentration: Accounting <br> Degree: Master of Business Admin.

Prerequisites ( 12 credits)
Students must complete program prequisites before enrolling in 6000-level coursework.
BUL3130 Legal Environment of Business (3 Credits)
ECO5115 Introduction Economic Analysis (3 Credits)
FIN5405 Essentials of Managerial Finan (3 Credits)
MAN5036 Fundamental Mgmt/Marketing (3 Credits)

Group 1 (12 credits)
All four courses in Group 1 are required. **Accounting majors MUST substitute ACG6309 for ACG6305**

ACG6305 Management Accounting (3 Credits)
ECO6415 Making Decisions with Data (3 Credits)
ECP6705 Economics of Business Decision (3 Credits)
MAN6204 Organizational Theory (3 Credits)

Group 2 (9 credits)
All three courses in group 2 are required. **Accounting Majors should substitute ACG6405 for ISM6021 (if CPA credit is desired).

FIN6406 Advanced Financial Management (3 Credits)
ISM6021 Mgmt Information Technology (3 Credits)
MAR6805 Marketing Strategy (3 Credits)

Group 3 (6 credits)
Both Courses in group 3 are required. MAN6726 is a permission only course and must be taken in your final semester. Students must have a 3.0 graduate level GPA before enrolling MAN6726. Student must apply a minimum of one month before registering for MAN6726 for the final semester. Apply at www.unf.edu/coggin

MAN6501 Modeling/Management Operations (3 Credits)
MAN6726 Advanced Strategic Management (3 Credits)

Concentration Requirements (9 credits)
Student must make a "B" or better in all concentration classes. All students that concentrate in accounting must substitute ACG6309 for ACG6305 and should substitute ACG6405 for ISM6021
***Pre-requisites are strictly enforced***
SELECT Option 1
**(for student with an undergrad degree in accounting)** ACG6805 - Advance Acctg Theory, ACG6645 - Auditing Theory and one 6000 level - ACG or TAX course.
EXCLUDING TAX6726 and ACG6305.
SELECT option 2
**(if student has an undergraduate degree OTHER THAN accounting)**ACG6805 -
Advance Acctg Theory, TAX6105 - Taxation of Business Corps and ACG6645-
Auditing Theory.

## Table of Contents

## Major: General Business <br> Concentration: International Business <br> Degree: Master of Business Admin.

Prerequisites (12 credits)
Students must complete program prequisites before enrolling in 6000-level coursework.
BUL3130 Legal Environment of Business (3 Credits)
ECO5115 Introduction Economic Analysis (3 Credits)
FIN5405 Essentials of Managerial Finan (3 Credits)
MAN5036 Fundamental Mgmt/Marketing (3 Credits)

Group 1 (12 credits)
All four courses in Group 1 are required. **Accounting majors MUST substitute ACG6309 for ACG6305**

ACG6305 Management Accounting (3 Credits)
ECO6415 Making Decisions with Data (3 Credits)
ECP6705 Economics of Business Decision (3 Credits)
MAN6204 Organizational Theory (3 Credits)

Group 2 (9 credits)
All three courses in group 2 are required. **Accounting Majors should substitute ACG6405 for ISM6021 (if CPA credit is desired).

FIN6406 Advanced Financial Management (3 Credits)
ISM6021 Mgmt Information Technology (3 Credits)
MAR6805 Marketing Strategy (3 Credits)

Group 3 (6 credits)
Both Courses in group 3 are required. MAN6726 is a permission only course and must be taken in your final semester. Students must have a 3.0 graduate level GPA before enrolling MAN6726. Student must apply a minimum of one month before registering for MAN6726 for the final semester. Apply at www.unf.edu/coggin

MAN6501 Modeling/Management Operations (3 Credits)
MAN6726 Advanced Strategic Management (3 Credits)

Concentration Requirements ( 9 credits)
Students must make a " B " or better in all concentration classes.
CHOOSE Any three (3) of the following
with Global or International in the title (including 1 study abroad course). Any student doing a full semester abroad (minimum 9 semester hours- 6000 level) at a Coggin College of Buisness exchange partner will automatically qualify for the Concentration regardless of the course taken. MAN6606-Cultural Environment of Global Business,
MAN6931 - Special Topics in Management, FIN6605 - International Finance,
MAR6158 - International Marketing BUL6850 - Legal Aspects of International
Business ECO6705 - The Global Economy MAN6067-Global Business Ethics
TRA6725 - International Logistics GEO6506-Economic Geography \& GIS TAX6505 -
International Taxation ACG6957-Study Abroad in Accounting ECO6957-Study
Abroad in Economics FIN6957 - Study Abroad in Finance GEB6957-Study Abroad in
Business MAN6957-Study Abroad in Management MAR6957-Study Abroad in
Marketing TRA6957-Study Abroad in Logistics

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## Major: General Business <br> Concentration: Construction Management <br> Degree: Master of Business Admin.

Prerequisites (12 credits)
Students must complete program prerequisites before enrolling in 6000-level coursework.
BUL3130 Legal Environment of Business (3 Credits)
ECO5115 Introduction Economic Analysis (3 Credits)
FIN5405 Essentials of Managerial Finan (3 Credits)
MAN5036 Fundamental Mgmt/Marketing (3 Credits)

Group 1 (12 credits)
All four courses in Group 1 are required. **Accounting majors MUST substitute ACG6309 for ACG6305**

ACG6305 Management Accounting (3 Credits)
ECO6415 Making Decisions with Data (3 Credits)
ECP6705 Economics of Business Decision (3 Credits)
MAN6204 Organizational Theory (3 Credits)

Group 2 (9 credits)
All three courses in group 2 are required. **Accounting Majors should substitute ACG6405 for ISM6021 (if CPA credit is desired).

FIN6406 Advanced Financial Management (3 Credits)
ISM6021 Mgmt Information Technology (3 Credits)
MAR6805 Marketing Strategy (3 Credits)

Group 3 (6 credits)
Both Courses in group 3 are required. MAN6726 is a permission only course and must be taken in your final semester. Students must have a 3.0 graduate level GPA before enrolling MAN6726. Student must apply a minimum of one month before registering for MAN6726 for the final semester. Apply at www.unf.edu/coggin

MAN6501 Modeling/Management Operations (3 Credits)
MAN6726 Advanced Strategic Management (3 Credits)

Concentration Requirements (9 credits)
Students must make a "B" or better in all concentration classes. Each course is only offered once a year.

BCN6595 Environmental Issue Land/Const (3 Credits)
BCN6728 Constr Planning/Scheduling (3 Credits)
BCN6748 Construction Law (3 Credits)

## Table of Contents

## Major: General Business <br> Concentration: Logistics <br> Degree: Master of Business Admin.

Prerequisites ( 12 credits)
Students must complete program prerequisites before enrolling in 6000-level coursework.
BUL3130 Legal Environment of Business (3 Credits)
ECO5115 Introduction Economic Analysis (3 Credits)
FIN5405 Essentials of Managerial Finan (3 Credits)
MAN5036 Fundamental Mgmt/Marketing (3 Credits)

Group 1 (12 credits)
All four courses in Group 1 are required. **Accounting majors MUST substitute ACG6309 for ACG6305**

ACG6305 Management Accounting (3 Credits)
ECO6415 Making Decisions with Data (3 Credits)
ECP6705 Economics of Business Decision (3 Credits)
MAN6204 Organizational Theory (3 Credits)

Group 2 (9 credits)
All three courses in group 2 are required. **Accounting Majors should substitute ACG6405 for ISM6021 (if CPA credit is desired).

FIN6406 Advanced Financial Management (3 Credits)
ISM6021 Mgmt Information Technology (3 Credits)
MAR6805 Marketing Strategy (3 Credits)

Group 3 (6 credits)
Both Courses in group 3 are required. MAN6726 is a permission only course and must be taken in your final semester. Students must have a 3.0 graduate level GPA before enrolling MAN6726. Student must apply a minimum of one month before registering for MAN6726 for the final semester. Apply at www.unf.edu/coggin

MAN6501 Modeling/Management Operations (3 Credits)
MAN6726 Advanced Strategic Management (3 Credits)

Concentration Requirements (9 credits)
Students must make a "B" or better in all concentration classes.
TRA6157 E-Supply Chain Management (3 Credits)
Must take this course (Normally offered spring)
SELECT any one of the following

- TRA6216 Strategic Logistics Management (normally offered Fall)
- TRA6725 International Logistics

SELECT any one of the following

- ACG6309 Advanced Managerial Accounting Theory (students requiring this course in their core may not count it twice in their program)
- MAN6026 Project Management
- MAN6559 Quantitative Management Analysis
- MAR6206 Marketing Channel Systems
- MAR6726 Marketing on the Internet: Strategies and Programs
- TRA6905 Directed Individual Study


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## Major: General Business <br> Concentration: e-Business <br> Degree: Master of Business Admin.

## Prerequisites (12 credits)

Students must complete program prequisites before enrolling in 6000-level coursework.

> BUL3130 Legal Environment of Business (3 Credits)
> ECO5115 Introduction Economic Analysis (3 Credits)
> FIN5405 Essentials of Managerial Finan (3 Credits)
> MAN5036 Fundamental Mgmt/Marketing (3 Credits)

Group 1 (12 credits)
All four courses in Group 1 are required. **Accounting majors MUST substitute ACG6309 for ACG6305**

ACG6305 Management Accounting (3 Credits)
ECO6415 Making Decisions with Data (3 Credits)
ECP6705 Economics of Business Decision (3 Credits)
MAN6204 Organizational Theory (3 Credits)

Group 2 (9 credits)
All three courses in group 2 are required. **Accounting Majors should substitute ACG6405 for ISM6021 (if CPA credit is desired).

FIN6406 Advanced Financial Management (3 Credits)
ISM6021 Mgmt Information Technology (3 Credits)
MAR6805 Marketing Strategy (3 Credits)

Group 3 (6 credits)
Both Courses in group 3 are required. MAN6726 is a permission only course and must be taken in your final semester. Students must have a 3.0 graduate level GPA before enrolling MAN6726. Student must apply a minimum of one month before registering for MAN6726 for the final semester. Apply at www.unf.edu/coggin

MAN6501 Modeling/Management Operations (3 Credits)
MAN6726 Advanced Strategic Management (3 Credits)

Concentration Requirements (9 credits)
Students must make a "B" or better in all concentration classes. If Study Abroad courses are chosen, these courses must have a significant e-commerce orientation to be counted toward this concentration.

## MAN6785 E-Business Strategy (3 Credits)

SELECT two of the following
MAR6726 - Mktg on Internet, TRA6157 - E-Supply Chain Mgmt, MAN6875 -
Entre/Venture Capital, MAN6581 (formerly MAN6026) - Project Management,
MAN6959 - Study Abroad in Mgmt., MAR6959 - Study Abroad in Mrkt. (if study
abroad course is chosen, it must have a substantial E-Business orientation. Requires pre-approval).

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## Major: General Business <br> Concentration: Management Applications <br> Degree: Master of Business Admin.

Prerequisites (12 credits)
Students must complete program prerequisites before enrolling in 6000-level coursework.
BUL3130 Legal Environment of Business (3 Credits)
ECO5115 Introduction Economic Analysis (3 Credits)
FIN5405 Essentials of Managerial Finan (3 Credits)
MAN5036 Fundamental Mgmt/Marketing (3 Credits)

Group 1 (12 credits)
All four courses in Group 1 are required. **Accounting majors MUST substitute ACG6309 for ACG6305**

ACG6305 Management Accounting (3 Credits)
ECO6415 Making Decisions with Data (3 Credits)
ECP6705 Economics of Business Decision (3 Credits)
MAN6204 Organizational Theory (3 Credits)

Group 2 (9 credits)
All three courses in group 2 are required. **Accounting Majors should substitute ACG6405 for ISM6021 (if CPA credit is desired).

FIN6406 Advanced Financial Management (3 Credits)
ISM6021 Mgmt Information Technology (3 Credits)
MAR6805 Marketing Strategy (3 Credits)

Group 3 (6 credits)
Both Courses in group 3 are required. MAN6726 is a permission only course and must be taken in your final semester. Students must have a 3.0 graduate level GPA before enrolling MAN6726. Student must apply a minimum of one month before registering for MAN6726 for the final semester. Apply at www.unf.edu/coggin

MAN6501 Modeling/Management Operations (3 Credits)
MAN6726 Advanced Strategic Management (3 Credits)

Concentration Requirements (9 credits)
Students must make a "B" or better in all concentration classes.
SELECT option 1 - three courses
Any MAN at the 6000 level (that is not part of the core)
SELECT Option2 - three courses
TRA6157 E-Supply chaing Mgmt (normally offered Spring only) or TRA6216 Strategic Logistics (normally offered Fall only) And any MAN at the 6000 level (that is not part of the core)

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## Major: General Business <br> Concentration: Economics and Geography <br> Degree: Master of Business Admin.

Prerequisites (12 credits)
Students must complete program prequisites before enrolling in 6000-level coursework.
BUL3130 Legal Environment of Business (3 Credits)
ECO5115 Introduction Economic Analysis (3 Credits)
FIN5405 Essentials of Managerial Finan (3 Credits)
MAN5036 Fundamental Mgmt/Marketing (3 Credits)

Group 1 (12 credits)
All four courses in Group 1 are required. **Accounting majors MUST substitute ACG6309 for ACG6305**

ACG6305 Management Accounting (3 Credits)
ECO6415 Making Decisions with Data (3 Credits)
ECP6705 Economics of Business Decision (3 Credits)
MAN6204 Organizational Theory (3 Credits)

Group 2 (9 credits)
All three courses in group 2 are required. **Accounting Majors should substitute ACG6405 for ISM6021 (if CPA credit is desired).

FIN6406 Advanced Financial Management (3 Credits)
ISM6021 Mgmt Information Technology (3 Credits)
MAR6805 Marketing Strategy (3 Credits)

Group 3 (6 credits)
Both Courses in group 3 are required. MAN6726 is a permission only course and must be taken in your final semester. Students must have a 3.0 graduate level GPA before enrolling MAN6726. Student must apply a minimum of one month before registering for MAN6726 for the final semester. Apply at www.unf.edu/coggin

MAN6501 Modeling/Management Operations (3 Credits)
MAN6726 Advanced Strategic Management (3 Credits)

Concentration Requirements (9 credits)
Students must make a "B" or better in all concentration classes.
CHOOSE Three of the following
with prefix ECO/ECP/GEO at 6000-Level

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## Major: General Business <br> Concentration: Sports Management <br> Degree: Master of Business Admin.

Prerequisites (12 credits)
Students must complete program prequisites before enrolling in 6000-level coursework.
BUL3130 Legal Environment of Business (3 Credits)
ECO5115 Introduction Economic Analysis (3 Credits)
FIN5405 Essentials of Managerial Finan (3 Credits)
MAN5036 Fundamental Mgmt/Marketing (3 Credits)

Group 1 (12 credits)
All four courses in Group 1 are required. **Accounting majors MUST substitute ACG6309 for ACG6305**

ACG6305 Management Accounting (3 Credits)
ECO6415 Making Decisions with Data (3 Credits)
ECP6705 Economics of Business Decision (3 Credits)
MAN6204 Organizational Theory (3 Credits)

Group 2 (9 credits)
All three courses in group 2 are required. **Accounting Majors should substitute ACG6405 for ISM6021 (if CPA credit is desired).

FIN6406 Advanced Financial Management (3 Credits)
ISM6021 Mgmt Information Technology (3 Credits)
MAR6805 Marketing Strategy (3 Credits)

Group 3 (6 credits)
Both Courses in group 3 are required. MAN6726 is a permission only course and must be taken in your final semester. Students must have a 3.0 graduate level GPA before enrolling MAN6726. Student must apply a minimum of one month before registering for MAN6726 for the final semester. Apply at www.unf.edu/coggin

MAN6501 Modeling/Management Operations (3 Credits)
MAN6726 Advanced Strategic Management (3 Credits)
( 9 credits)
Students must make a "B" or better in all concentration classes. SPM6008 foundations of Sport Management ( 3 hours) - to be taken if one does not have an undergraduate degree or minor in Sports Management.

SELECT 3 of the 4 courses
Students may take any 3 of the four courses listed below

- SPM5206 Ethics and Issues in Sport
- SPM5506 Sport Finance
- SPM6106 Facilities and Risk Management
- SPM5308 Marketing and Promotions


## Table of Contents

## Major: General Business <br> Concentration: Finance Concentration <br> Degree: Master of Business Admin.

Prerequisites ( 12 credits)
Students must complete program prequisites before enrolling in 6000-level coursework.
BUL3130 Legal Environment of Business (3 Credits)
ECO5115 Introduction Economic Analysis (3 Credits)
FIN5405 Essentials of Managerial Finan (3 Credits)
MAN5036 Fundamental Mgmt/Marketing (3 Credits)

Group 1 (12 credits)
All four courses in Group 1 are required. **Accounting majors MUST substitute ACG6309 for ACG6305**

ACG6305 Management Accounting (3 Credits)
ECO6415 Making Decisions with Data (3 Credits)
ECP6705 Economics of Business Decision (3 Credits)
MAN6204 Organizational Theory (3 Credits)

Group 2 (9 credits)
All three courses in group 2 are required. **Accounting Majors should substitute ACG6405 for ISM6021 (if CPA credit is desired).

FIN6406 Advanced Financial Management (3 Credits)
ISM6021 Mgmt Information Technology (3 Credits)
MAR6805 Marketing Strategy (3 Credits)

Group 3 (6 credits)
Both Courses in group 3 are required. MAN6726 is a permission only course and must be taken in your final semester. Students must have a 3.0 graduate level GPA before enrolling MAN6726. Student must apply a minimum of one month before registering for MAN6726 for the final semester. Apply at www.unf.edu/coggin

MAN6501 Modeling/Management Operations (3 Credits)
MAN6726 Advanced Strategic Management (3 Credits)

Concentration Requirements (9 credits)
Student must make a "B" or better in all concentration classes.
SELECT two courses
from: FIN6314 - Bank \& Finance Admin., FIN6515 (formerly FIN6516) - Investments, FIN6605 - International Finance, FIN6565 - Managed Investment Fund 1, FIN6566Managed Investment Fund 2, FIN6906-Special work in Finance, FIN6936-Special Topics in Finance, REE6146-Real Property Analysis, REE6906 - Directed Independent Study, FIN6957 - Study Abroad in Finance

SELECT one course 6000-LEVEL
ACG/BUL/ECO/ECP/FIN/GEB/ISM/ MAN/QMB/MAR/REE/TAX/TRA

## Table of Contents

## Major: General Business

Degree: Master of Business Admin.

Prerequisites ( 12 credits)
Students must complete program prerequisites before enrolling in 6000-level coursework.
BUL3130 Legal Environment of Business (3 Credits)
ECO5115 Introduction Economic Analysis (3 Credits)
FIN5405 Essentials of Managerial Finan (3 Credits)
MAN5036 Fundamental Mgmt/Marketing (3 Credits)

Group 1 (12 credits)
All four courses in Group 1 are required. **Accounting majors MUST substitute ACG6309 for ACG6305**

ACG6305 Management Accounting (3 Credits)
ECO6415 Making Decisions with Data (3 Credits)
ECP6705 Economics of Business Decision (3 Credits)
MAN6204 Organizational Theory (3 Credits)

Group 2 (9 credits)
All three courses in group 2 are required. **Accounting Majors should substitute ACG6405 for ISM6021 (if CPA credit is desired).

FIN6406 Advanced Financial Management (3 Credits)
ISM6021 Mgmt Information Technology (3 Credits)
MAR6805 Marketing Strategy (3 Credits)

Group 3 (6 credits)
Both Courses in group 3 are required. MAN6726 is a permission only course and must be taken in your final semester. Students must have a 3.0 graduate level GPA before enrolling MAN6726. Student must apply a minimum of one month before registering for MAN6726 for the final semester. Apply at www.unf.edu/coggin

MAN6501 Modeling/Management Operations (3 Credits)
MAN6726 Advanced Strategic Management (3 Credits)

Electives (9 credits)
MBA students may use a maximum of ONE faculty -led Study Abroad at the 6000 - level in their program.

SELECT Three courses
6000 level with the listed Prefix:
ACG/BUL/ECO/ECP/FIN/GEB/GEO/ISM/MAN/MAR/QMB/REE/TAX/TRA

## Table of Contents

Major: E-Business Certificate
Degree: Post-Baccalaureate Certificate

Certificate Requirements ( 15 credits)
In order to recieve the Certificate in E-Business, students must have an average GPA in certificate courses of 3.0 or better and no grade below a "C".

MAN6026 Project Management (3 Credits) (normally offered in sping or summer)

MAN6785 E-Business Strategy (3 Credits) (normally offered in fall)
MAN6875 Entrepreneur/Venture Capital (3 Credits)
MAR6726 Marketing on Internet: Strateg (3 Credits)
(normally offered in spring)
TRA6157 E-Supply Chain Management (3 Credits)

## Table of Contents

Major: Biology<br>Degree: Master of Arts

Core Requirements ( 36 credits)
Grades of "B" or better are required in all graduate courses.
Students must apply to graduate by the published deadline during their final semester.
SELECT 36 HRS FROM THE LIST BELOW:

- BCH 6876C Membrane Biology
- BOT 5186C Advanced Marine Botany
- BSC 5075C Advanced Physiology
- BSC 5487C Advanced Biology of Marine Mammals
- BSC 5905 Directed Independent Study: Biology
- BSC 5936 ST: Biology
- BSC 5872 Advanced Biological Pharmacology
- BSC 5930 Biology Seminar
- BSC 6840 Critical Skills in Science
- BSC 6515C Aquatic Toxicology
- BSC 6931 Advanced Readings in Biology
- BSC 6971 Graduate Thesis Defense
- BSC 6972 Graduate Thesis Research
- MCB 5024C Advanced Molecular Biology Techniques
- MCB 6175C Integrative Microscopy
- PCB 5235 Cellular Immunology
- PCB 6314C Marine Ecology
- PCB 5525 Molecular Genetics
- PCB 6675 Advanced Evolution
- PCB 5845 Cellular \& Molecular Neuroscience
- PCB 6480 Quantitative Ecology
- PCB 6236 Advanced Cancer Biology
- PCB 6335C Estuarine Ecology
- PCB 6446 Ecology of Wetlands
- PCB 6447 Community Ecology
- PCB 6685 Population Genetics
- PCB 6307C Freshwater Ecology
- ZOO 5235C Advanced Parasitology
- ZOO 5455C Advanced Ichthyology
- ZOO 5463C Advanced Herpetology
- ZOO 5717C Canine Anatomy
- ZOO 5754C Advanced Histology
- ZOO 5209C Advanced Coastal Invertebrate Biology
- FAS 5355 Advanced Coastal Fisheries Management
- FAS 6355L Advanced Coastal Fisheries Management Lab
- BSC 5028 Advanced Biology of Aging
- MCB 5505 Advanced Virology
- BCH 5418C Advanced Molecular Biology and Biochemistry


## Table of Contents

## Major: Mathematical Science <br> Concentration: Mathematics <br> Degree: Master of Science

Prerequisites (33 credits)

```
MAC2311 (GM) Calculus I (4 Credits)
MAC2312 (GM) Calculus II (4 Credits)
MAC2313 (GM) Calculus III (4 Credits)
MAS3105 (GM) Linear Algebra (4 Credits)
MAA4211 (GM) Advanced Calculus I (4 Credits)
MAA4212 (GM) Advanced Calculus II (3 Credits)
MAP2302 (GM) Ordinary Differ Equations (3 Credits)
STA4321 (GM)Probability and Statistics (4 Credits)
COP2220 Computer Science I (3 Credits)
    Or an equivalent scientific programming course.
```

Major Requirements (18 credits)
Students must apply to graduate by the published deadline during their final semester.
Grades of B or better are required in all graduate courses.
A minimum of 32 semester hours are required for the degree.

```
MAS6145 Advanced Linear Algebra (3 Credits)
STA6446 Probability (3 Credits)
STA6166 Statistical Methods I (3 Credits)
STA6326 Mathematical Statistics I (3 Credits)
MAD6405 Numerical Analysis (3 Credits)
MAP6385 Scientific Computing (3 Credits)
```

Major Electives (14 credits)
In one of the concentrations (to be selected in consultation with the graduate advisor). May include no more than 6 semester hours of thesis.

SELECT 14 HOURS FROM THE FOLLOWING:

- MAA 6417 Complex Analysis
- MAA 6938 Topics in Applied Analysis
- MAP 6336 Ordinary Differential Equations
- MAP 6345 Partial Differential Equations
- MAP 6605 Topics in Financial Mathematics
- MAP 6932 Topics in Optimization
- MAS 6218 Topics in Number Theory
- MAS 6311 Abstract Algebra
- MAS 6933 Topics in Algebra
- MAS 6938 Topics in Applied Algebra
- MAT 5932 ST: Mathematical Science
- MAT 6908 Directed Individual Study
- MAT 6933 ST: Mathematics
- MAT 6938 Seminar in Mathematics
- MAT 6971 Thesis
- STA 6666 Statistical Quality Control


## Table of Contents

Major: Biology<br>Degree: Master of Science

## Prerequisites

Grades of ' B ' or above required in all courses.
CHM2210 Organic Chemistry I (3 Credits)
CHM2210L Organic Chemistry I Laboratory (1 Credit)
CHM2211 Organic Chemistry II (3 Credits)
CHM2211L Organic Chemistry II Lab (1 Credit)
MAC2241 (GM)Calculus for Biology (4 Credits)
PCB3043C Principles of Ecology (4 Credits)
PCB3063C Genetics (4 Credits)
STA2014 (GM)Elem Statistics-Health/SS (3 Credits)
SELECT 10 HRS OF BIOLOGY ELECTIVES

Core Requirements ( 30 credits)
Grades of "B" or better are required in all graduate courses.
Students must apply to graduate by the published deadline during their final semester.
SELECT 30 HRS FROM THE LIST BELOW:

- BOT 5186C Advanced Marine Botany
- BCH 6876C Membrane Biology
- BSC 5099C Advanced Physiology
- BSC 5487C Advanced Biology of Marine Mammals
- BSC 5905 Directed Independent Study: Biology
- BSC 5936 ST: Biology
- BSC 5872 Advanced Biological Pharmacology
- BSC 5930 Biology Seminar
- BSC 6840 Critical Skills in Science
- BSC 6515C Aquatic Toxicology
- BSC 6098C Environmental Physiology
- BSC 6931 Advanced Readings in Biology
- BSC 6971 Graduate Thesis Defense
- BSC 6972 Graduate Thesis Research
- MCB 5024C Advanced Molecular Biology Techniques
- MCB 6175C Integrative Microscopy
- PCB 5235 Cellular Immunology
- PCB 6314C Marine Ecology
- PCB 5525 Molecular Genetics
- PCB 6675 Advanced Evolution
- PCB 5845 Cellular \& Molecular Neuroscience
- PCB 6236 Advanced Cancer Biology
- PCB 6335C Estuarine Ecology
- PCB 6446 Ecology of Wetlands
- PCB 6447 Community Ecology
- PCB 6685 Population Genetics
- PCB 6480 Quantitative Ecology
- PCB 6307C Freshwater Ecology
- ZOO 5235C Advanced Parasitology
- ZOO 5455C Advanced Ichthyology
- ZOO 5463C Advanced Herpetology
- ZOO 5717C Canine Anatomy
- ZOO 5754C Advanced Histology
- ZOO 5209C Advanced Coastal Invertebrate Biology
- FAS 5355 Advanced Coastal Fisheries Biology

FAS 6355L Advanced Coastal Fisheries Biology Lab

- BSC 5028 Advanced Biology of Aging
- MCB 5505 Advanced Virology
- BCH 5418C Advanced Molecular Biology and Biochemistry


## Table of Contents

## Major: Mathematical Science <br> Concentration: Statistics <br> Degree: Master of Science

Prerequisites (31 credits)

```
MAC2311 (GM) Calculus I (4 Credits)
MAC2312 (GM) Calculus II (4 Credits)
MAC2313 (GM) Calculus III (4 Credits)
MAS3105 (GM) Linear Algebra (4 Credits)
MAA4211 (GM) Advanced Calculus I (4 Credits)
STA3163 (GM)Statistical Methods I (4 Credits)
STA4321 (GM)Probability and Statistics (4 Credits)
COP2220 Computer Science I (3 Credits)
    Or an equivalent scientific programming course.
```

Major Requirements (18 credits)
Students must apply to graduate by the published deadline during their final semester.
Grades of B or better are required in all graduate courses.
A minimum of 32 semester hours are required for the degree.

```
MAS6145 Advanced Linear Algebra (3 Credits)
STA6446 Probability (3 Credits)
STA6166 Statistical Methods I (3 Credits)
STA6326 Mathematical Statistics I (3 Credits)
MAD6405 Numerical Analysis (3 Credits)
STA6106 Computer-Intensive in Stats (3 Credits)
```

Major Electives (14 credits)
Select one concentration (in consultation with the graduate advisor). May include no more than 6 semester hours of thesis.

SELECT 14 HOURS FROM THE FOLLOWING:

- MAP 6605 Topics in Financial Mathematics
- STA 6167 Statistical Methods II
- STA 6205 Design of Experiments
- STA 6226 Sampling
- STA 6505 Categorical Data Analysis
- STA 6666 Statistical Quality Control
- STA 6707 Multivariate Methods
- STA 6XXX Mathematical Statistics II
- STA 6908 Directed Individual Study
- STA 6932 ST: Statistics
- STA 6938 Seminar in Statistics
- STA 6940 Statistical Consulting
- STA 6971 Thesis


## Table of Contents

## Major: Criminal Justice

Degree: MS in Criminal Justice

## Prerequisites (6 credits)

Prerequisites must be completed within the first 9 hours of graduate course work.
CCJ3014 Criminological Theory (3 Credits)
SELECT 1 FROM THE FOLLOWING*:

- SYA 3300 Logic of Inquiry
- STA 2014 Elementary Statistics for Health and Social Sciences
- CCJ 3700 Research Methods in Criminal Justice

Major Requirements (21 credits)
CCJ6059 Advanced Criminological Theory (3 Credits)
CCJ6705 Adv Methds Criminological Rsch (3 Credits)
CCJ6706 Quantitative Research Methods (3 Credits)
CJC5020 History And Phil Corrections (3 Credits)
CJE6329 Police Effectiveness (3 Credits)
CJL6026 Iss in Law and Justice Process (3 Credits)
CCJ6639 Issues in Soc Criminal Justice (3 Credits)

Major Electives (12 credits)
SELECT 4 FROM THE FOLLOWING:

- CCJ 5692 Women \& Crime
- CJE 6268 Minorities \& Crime
- CCJ 5646 Organized Crime
- CCJ 5684 Family Violence
- CCJ 5743 Graduate Supervised Research Experience in Criminal Justice
- CJL 5120 Criminal Law \& Procedure in the Criminal Justice System
- CJC 5020 History \& Philosophy of Corrections
- CJC 5420 Counseling Applications in Criminal Justice
- CCJ 5346 Crisis Intervention \& Collective Behavior
- CCJ 5456 Criminal Justice Administration Theory \& Practice
- CCJ 5475 Criminal Justice Planning \& Evaluation
- CJJ 5586 Working with Juveniles \& Youthful Offenders
- CCJ 5635 Comparative Criminal Justice Systems
- CCJ 5665 Victimology
- CCJ 5668 Elite Crime
- CCJ 6705 Advanced Methods of Criminological Research
- CCJ 6906 Directed Independent Study
- CCJ 5930 Issues in Modern Criminal Justice
- CCJ 5934 ST: Criminal Justice
- CJC 5135 Prison and Jails
- CCJ 5079 Crime Mapping
- CJE 6329 Police Effectiveness
- CJL 6026 Issues in Law and Justice Process
- CCJ 6639 Issues in Social and Criminal Justice
- CJL 6020 Prosecution and Defense Procedure
- CJE 5320 Police Administration
- CJE 5121 Homeland Security and Criminal Justice
- CJE 5428 Critical Issues in Community Policing
- CJL 5025 Women, Justice and Law
- CJC5425 Methods of Offender Treatment
- CJC 5520 Punishment and Society
- CCJ 5652 Drugs, Crime and Society
- CCJ 5066 Poverty and Crime
- CJC 5165 Community Corrections and Offender Reentry

Exit Requirement (6 credits)
SELECT THESIS OR NON-THESIS OPTION
A. Thesis Option (must take 6 hours)

- CCJ 6974 Thesis/Demonstration Project

Or
B. Non-thesis Option
two additional graduate courses

## Table of Contents

## Major: Practical Phi \& Applied Ethics <br> Degree: Master of Arts

## Prerequisites

While students entering in the M.A. Program are not required to have a B.A. in philosophy, they are expected to have completed at least one undergraduate course in each of the following areas: logic, history of philosophy, and theoretical philosophy.
Entering students who have not met this requirement will be expected to take courses in these areas on remedial basis, which may involve up to nine credit hours of additional course work.

- One course in logic
- One course in history of philosophy
- One course in theoretical philosophy

PREREQS .

Major Requirements (24 credits)
Grades of B or above are required in all graduate courses.
PHI6937 Themes Methods Pract. Phil. (3 Credits)

- Themes and Methods in Practical Philosophy

PHI6938 Themes Method Applied Ethics (3 Credits)

- Themes and Methods in Applied Ethics

PHI5605 Ethics (3 Credits)
SELECT 1 INTRO ETHICAL ISSUES

- PHI 5627 Ethics Sex Gender
- PHI 5628 Business Ethics
- PHI 5634 Bioethics
- PHI 5668 Ethics East West
- PHI 5675 Moral Conflict
- PHI 5691 Environmental Ethics
- PHI 5886 Ethics and Lit
- PHI 6125 Ancient Greek Ethics
- PHI 6676 Lies \& Self-Deception
- PHM 5677 Ethical Issues in Public Health
- PHM 5366 Global Justice
- PHM 5056 Death and Dying

SELECT 1 PRACTICAL PHILOSOPHY

- PHH 5505 19th Century Philosophy
- PHM 5105 Social Philosophy
- PHM 5305 Political Philosophy
- PHM 5365 Philosophy of Democracy
- PHM 5405 Philosophy of Law
- PHM 6345 Contemporary Political Philosophy
- PHI 5808 Aesthetics
- PHI 6225 Philosophy of Language
- PHI 6405 Philosophy of Science
- PHI 6425 Philosophy of the Social Sciences
- PHI 6458 Philosophy of Psychiatry
- PHP 5794 Pragmatism

Grades of B or better are required in all graduate courses.
a minimum of 33 hours is required for the degree.
all students must apply for graduation during registration for the last semester of courses at UNF. Continual enrollment (summer exempted) until graduation required.

SELECT Internship,Thesis or Portfolio

Option 1: 9 hours of internship practicum, research and writing. PHI6942 repeatable up to 15 hours.

- PHI 6942 Internship in Applied Ethics

Option 2: 9 hours of thesis research/writing. PHI6971 repeatable up to 15 hours.

- PHI 6971 Thesis

Option 3: 3 hours portfolio preparation plus 6 hours additional graduate courses. PHI6951 repeatable up to 9 hours.

- PHI 6951 Portfolio Preparation
- PHI, PHH, PHM, PHP


## Table of Contents

## Major: English <br> Concentration: Composition and Rhetoric <br> Degree: Master of Arts

Prerequisites
Courses must have sufficiently high grades.
SELECT 18 HRS (3000/4000) FROM:

- AML / ENL / CRW / LIT / ENG

Major Requirements (6 credits)
A minimum of 33 semester hours are required for the degree.
All students must apply for graduation during registration for the last semester of courses at UNF.
Deadlines are available online.
LIT6246 Major Authors (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- ENG 6018 History of Literary Criticism \& Theory
- ENG 6019 Contemporary Literary Criticism \& Theory

Major Electives (27 credits)
2 courses must be before 1800 \& 2 courses must be after 1800.
A maximum of 12 semester hours ( 4 courses only) at the 5000 level, all other courses must be taken at the 6000 level.

SELECT 2 BRITISH LIT (5000/6000)

- ENL

SELECT 2 AMERICAN LIT (5000/6000)

- AML

ENC6333 The Subject of Composition
ENC6706 Gram/Rhet of Sent and Para (3 Credits)
ENC6720 Problems in Comp (3 Credits)
ENC6942 Teach Prac:Writing Classroom (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- CRW 6331 Poetry Workshop
- ENG 6138 Studies in Film
- LIT 5934 Topics in Literature
- LIT 6017 Studies in Fiction
- LIT 6037 Studies in Poetry
- LIT 6047 Studies in Drama
- LIT 6654 Comparative \& World Literature
- LIT 6905 Directed Independent Study
- LIT 6934 ST: Literature
- LIT 6941 Practicum: Teaching Literature


## Table of Contents

Major: Public Administration<br>Concentration: General Administration<br>Degree: Master of Public Admin.

Prerequisites (6 credits)
SELECT One American Govenment course
One undergraduate course in American Government, or American Political System, or POS 2041 Intro to American Government.

SELECT One Statistics course
One undergraduate course in Statistics; or POS 3713 Political Inquiry and Analysis.

Core Requirements ( 24 credits)
NOTE: PAD 5700 is a prerequisite for PAD 6706, PAD 6066, PUP 6006, and PUP 6007. PAD 6060 is a prerequisite for PAD 6066.
In order to graduate from the program: grades of C or above are required in all MPA courses; grades of $B$ or above are required in at least 7 of the 8 required core courses; and MPA students must meet the minimum graduation requirements for master's degree students at the university. All students must apply for graduation during registration for the last semester of courses in the program. Deadlines are published online.
Students from the UNF undergraduate MPA fast track program who have successfully met the admission requirements of the MPA program are not required to take PAD 6060. They must take the remainder of the MPA core but are further required to take only 3 electives, for a total of 33 hours of graduate course work.

```
PAD6060 Public Admin in Modern Society (3 Credits)
PAD5700 Public Admin Research Methods (3 Credits)
PAD6417 Human Res in Public/NP Mgmt (3 Credits)
PAD6227 Government Budget and Finance (3 Credits)
PAD6106 Admin Behavior in Public Org (3 Credits)
PUP6006 Prog Eval Pub/NP Mgt (3 Credits)
PAD6436 Ethics in Public Service (3 Credits)
PAD6066 Capstone Seminar (3 Credits)
            Prereq: requires permission of MPA director
```

Major Requirements (18 credits)

Students are required to take five or six courses, depending upon whether or not they are required to complete an internship, from among other MPA program courses. Other electives from outside the MPA program may be approved by the MPA director.

## Table of Contents

## Major: English

Degree: Master of Arts

Prerequisites
Courses must have sufficiently high grades.
SELECT 18 HRS (3000/4000) FROM:

- AML / ENL / CRW / LIT / ENG

Major Requirements (6 credits)
A minimum of 33 semester hours are required for the degree.
All students must apply for graduation during registration for the last semester of courses at UNF.
Deadlines are available online.
LIT6246 Major Authors (3 Credits)
SELECT 1 FROM THE FOLLOWING:

- ENG 6018 History of Literary Criticism \& Theory
- ENG 6019 Contemporary Literary Criticism \& Theory

Major Electives (27 credits)
2 courses must be before 1800 \& 2 courses must be after 1800.
A maximum of 12 semester hours ( 4 courses only) at the 5000 level, all other courses must be taken at the 6000 level.

SELECT 2 BRITISH LIT (5000/6000)

- ENL

SELECT 2 AMERICAN LIT (5000/6000)

- AML

SELECT 5 FROM THE FOLLOWING:

- AML 6506 Studies in Early American Literature
- AMP 6507 Studies in Later American Literature
- ENC 6700 Theory of Composition
- ENG 6138 Studies in Film
- ENG 6855 Topics in Cultural Studies
- ENG 6941 DIS: Practicum: Teaching Composition
- ENL 6502 Studies in Early British Literature
- ENL 6509 Studies in Later British Literature
- LIT 5934 Topics in Literature
- LIT 6017 Studies in Fiction
- LIT 6037 Studies in Poetry
- LIT 6047 Studies in Drama
- LIT 6009 Studies in Genre
- LIT 6654 Comparative \& World Literature
- LIT 6905 Directed Independent Study
- LIT 6934 ST: Literature
- LIT 6941 Practicum: Teaching Literature


## Table of Contents

Major: Public Administration<br>Concentration: Health Administration<br>Degree: Master of Public Admin.

Prerequisites (6 credits)
SELECT One American Govenment course
One undergraduate course in American Government, or American Political System, or POS 2041 Intro to American Government.

SELECT One Statistics course
One undergraduate course in Statistics; or POS 3713 Political Inquiry and Analysis.

Core Requirements ( 24 credits)
NOTE: PAD 5700 is a prerequisite for PAD 6706, PAD 6066, PUP 6006, and PUP 6007. PAD 6060 is a prerequisite for PAD 6066.
In order to graduate from the program: grades of $C$ or above are required in all MPA courses; grades of $B$ or above are required in at least 7 of the 8 required core courses; and MPA students must meet the minimum graduation requirements for master's degree students at the university. All students must apply for graduation during registration for the last semester of courses in the program. Deadlines are published online.
Students from the UNF undergraduate MPA fast track program who have successfully met the admission requirements of the MPA program are not required to take PAD 6060. They must take the remainder of the MPA core but are further required to take only 3 electives, for a total of 33 hours of graduate course work.

```
PAD6060 Public Admin in Modern Society (3 Credits)
PAD5700 Public Admin Research Methods (3 Credits)
PAD6417 Human Res in Public/NP Mgmt (3 Credits)
PAD6227 Government Budget and Finance (3 Credits)
PAD6106 Admin Behavior in Public Org (3 Credits)
PUP6006 Prog Eval Pub/NP Mgt (3 Credits)
PAD6436 Ethics in Public Service (3 Credits)
PAD6066 Capstone Seminar (3 Credits)
    Prereq: requires permission of MPA director
```

Major Requirements (12 credits)

Students choosing the Health Administration track may not select any additional courses in graduate programs other than the MPA program. Students selecting this option must meet the prerequisites or other requirements of the Brooks College of Health and the Health Administration program.

HSA6114 Health Organization/Delivery (3 Credits)
HSA6905 Health Policy (3 Credits)
HSA6435 Health Economics (3 Credits)
(pre-req: PAD 6227)
SELECT 1 FROM THE FOLLOWING:

- HSA 5177 Health Care Finance(pre-req:ACG2021 Accounting)
- HSA 6149 Health Planning \& Marketing
- HSA 6198 Health Information Technology
- HSA 6342 Healthcare Human Resources
- HSA 6385 Quality Management in Health Care
- HSA 6425 Health Law


## Major Electives (6 credits)

Students are required to take one or two courses, depending upon whether or not they are required to complete an internship, from among other MPA program courses. Other electives from
outside the MPA program may be approved by the MPA director.
SELECT 1-2 additional MPA courses

## Table of Contents

## Major: General Psychology <br> Degree: Master of Arts

Prerequisites (12 credits)

## SELECT 1 RESEARCH METHODS/STATISTICS

- PSY 3214 Psychology Research Methods
- PSY 3213L Research Methods Lab
- STA 2014 Elementary Statistics

SELECT 1 EXPERIMENTAL COURSE

- EAB 3013C Experimental Analysis Behavior/Lab
- EXP 3461C Human Learning \& Performance
- EXP 3680C Experimental Cognitive Psychology
- PSY 4302C Psychological Testing
- SOP 3214C Experimental Social Psychology
- EXP 3703C Computer Applications in Psychological Research

SELECT 2 FROM THE FOLLOWING:

- CLP 4143 Psychology of Abnormal Behavior
- DEP 3054 Lifespan Development Psychology
- EXP 3604 Cognitive Psychology
- PPE 4003 Personality Theories
- PSB 3002 Psychobiology
- SOP 3004 Social Psychology

Major Requirements (39 credits)
Grades of B or above are required in all courses.
A minimum of 37 semester hours are required for the degree (in addition to any necessary prerequisites).
All students must apply for graduation during registration for the last semester of courses at UNF. Deadlines are published online.
The record of any student who receives a grade of C or lower will be referred automatically to the graduate coordinator for review of the desirability of the student's continuation in the program.

```
DEP6055 Human Development (3 Credits)
EXP6506 Learning and Cognition (3 Credits)
PPE6466 Advanced Personality Theories (3 Credits)
PSY6217 Research Design and Analysis (4 Credits)
SOP6069 Advanced Social Psychology (3 Credits)
PSY6910 Supervised Research (3 Credits)
    Take Twice
PSY6937 Collqum in Psychological Rsrch (1 Credit)
    Take Twice
PSY6971 Thesis A (3 Credits)
PSY6972 Thesis B (1-6 Credits)
STA5126 Stat Methods/Social Sciences (3 Credits)
PSY6932 St:Psychological Sci Seminar (3 Credits)
PSB6031 Advanced Biopsychology (3 Credits)
```


## Table of Contents

Major: Public Administration<br>Concentration: Local Government Policy \& Adm<br>Degree: Master of Public Admin.

Prerequisites (6 credits)
SELECT One American Govenment course
One undergraduate course in American Government, or American Political System, or POS 2041 Intro to American Government.

SELECT One Statistics course
One undergraduate course in Statistics; or POS 3713 Political Inquiry and Analysis.

Core Requirements ( 24 credits)
NOTE: PAD 5700 is a prerequisite for PAD 6706, PAD 6066, PUP 6006, and PUP 6007. PAD 6060 is a prerequisite for PAD 6066.
In order to graduate from the program: grades of $C$ or above are required in all MPA courses; grades of $B$ or above are required in at least 7 of the 8 required core courses; and MPA students must meet the minimum graduation requirements for master's degree students at the university. All students must apply for graduation during registration for the last semester of courses in the program. Deadlines are published online.
Students from the UNF undergraduate MPA fast track program who have successfully met the admission requirements of the MPA program are not required to take PAD 6060. They must take the remainder of the MPA core but are further required to take only 3 electives, for a total of 33 hours of graduate course work.

PAD6060 Public Admin in Modern Society (3 Credits)
PAD5700 Public Admin Research Methods (3 Credits)
PAD6417 Human Res in Public/NP Mgmt (3 Credits)
PAD6227 Government Budget and Finance (3 Credits)
PAD6106 Admin Behavior in Public Org (3 Credits)
PUP6006 Prog Eval Pub/NP Mgt (3 Credits)
PAD6436 Ethics in Public Service (3 Credits)
PAD6066 Capstone Seminar (3 Credits)
Prereq: requires permission of MPA director

Major Requirements ( 12 credits)
PAD6807 Urban Administration (3 Credits)
POS6158 Politics/Policy in Local Govt (3 Credits)
SELECT 2 electives
(from the following, or approved by the MPA Director):

- URP 6058 Urban \& Regional Planning
- POS 6095 Intergovernmental Relations
- PAD 6207 Municipal Finance Administration
- PAD 5384 Civic Groups and Public Policy

Major Electives (6 credits)
Students are required to take one or two courses, depending upon whether or not they are
required to complete an internship, from among other MPA program courses. Other electives from outside the MPA program may be approved by the MPA director.

SELECT 1-2 additional MPA courses

## Table of Contents

Major: History<br>Concentration: European History (Non-Thesis)<br>Degree: Master of Arts

Prerequisites (3 credits)
HIS3051 (GW)Craft Of The Historian (3 Credits)

## Major Requirements (36 credits)

A maximum of 9 hrs of HIS 6905 (Directed Independent Study) and/or HIS 6946 (Internship in History) is permitted for the non-thesis option. Independent Studies and Internships may not substitute for required Readings Courses or Research Seminars.
Students must consult with the Graduate Program Director to schedule an oral examination in the spring or fall semester immediately prior to their graduation. In advance of the examination, each student will submit one of the 20-40 page research papers written for a Research Seminar (subsequently revised if they choose) to a committee of three faculty members, at least one of whom will be in student's field. The committee will review the paper and will examine the student on the paper's historical and historiographic context.
All students must apply for graduation during registration for the last semester of courses at UNF. Deadlines are published online.

SELECT 3 Readings Seminars (9 hrs)

- EUH 6905 Readings in Eur History I
- EUH 6906 Readings in Eur History II
- AMH 6905 Readings in Am History I OR AMH 6907 Readings in Am History II

SELECT A 2 Euro Hist Res Sems (6 hrs)

- 6000 level
- EUH
- HIS with permission of Graduate Program Director

SELECT B 1 Hist Research Sem (3 hrs)

- 6000 level
- EUH/AMH/LAH/ASH/AFH/HIS

SELECT C 2 History Courses (6 hrs)

- 6000 level
- 
- EUH/AMH/LAH/ASH/AFH/HIS

SELECT D 4 History Courses (12 hrs)

- 5000/6000 level
- 
- EUH/AMH/LAH/ASH/AFH/HIS


## Table of Contents

Major: Public Administration<br>Concentration: National Security<br>Degree: Master of Public Admin.

## Core Requirements (24 credits)

NOTE: PAD 5700 is a prerequisite for PAD 6706, PAD 6066, PUP 6006, and PUP 6007. PAD 6060 is a prerequisite for PAD 6066.
In order to graduate from the program: grades of C or above are required in all MPA courses; grades of $B$ or above are required in at least 7 of the 8 required core courses; and MPA students must meet the minimum graduation requirements for master's degree students at the university. All students must apply for graduation during registration for the last semester of courses in the program. Deadlines are published online.
Students from the UNF undergraduate MPA fast track program who have successfully met the admission requirements of the MPA program are not required to take PAD 6060. They must take the remainder of the MPA core but are further required to take only 3 electives, for a total of 33 hours of graduate course work.

```
PAD6060 Public Admin in Modern Society (3 Credits)
PAD5700 Public Admin Research Methods (3 Credits)
PAD6417 Human Res in Public/NP Mgmt (3 Credits)
PAD6227 Government Budget and Finance (3 Credits)
PAD6106 Admin Behavior in Public Org (3 Credits)
PUP6006 Prog Eval Pub/NP Mgt (3 Credits)
PAD6436 Ethics in Public Service (3 Credits)
PAD6066 Capstone Seminar (3 Credits)
```

    Prereq: requires permission of MPA director
    
## Major Requirements

Students may select courses in graduate programs other than the MPA program with the approval of the MPA director.
MPA students must meet the minimum graduation requirements for master's degree students at the university.
All students must apply for graduation during registration for the last semester of courses in the program. Deadlines are published online.

SELECT FROM THE FOLLOWING:
National security policy \& administration track students must transfer 9-15 hours from the Naval War College nonresidential seminar program in order to meet the 42 hour MPA graduation requirement.

Select any two following courses if 9 hours are transferred from the Naval War College.

Select any one of the following courses if 12 hours are transferred from the Naval War College.

- PAD 5605 Administrative Law
- PAD 6021 Case Studies in Public Administration
- PAD 6053 Issues in Public Management
- PAD 6207 Municipal Finance Administration
- PAD 6447 Managing Diversity in Public \& Nonprofit Organizations
- PAD 6612 Regulatory Administration
- PAD 6807 Urban Administration
- PAD 6900 Directed Independent Study
- PAD 6934 ST: Public Administration
- PAD 6946 Internship in Public Administration
- POS 6095 Intergovernmental Relations
- POS 6158 Politics \& Policy in Local Government
- URP 6058 Urban \& Regional Planning


## Table of Contents

Major: History<br>Concentration: European History with Thesis<br>Degree: Master of Arts

Prerequisites (3 credits)
HIS3051 (GW)Craft Of The Historian (3 Credits)

## Major Requirements (36 credits)

Only one section of HIS 6946 (Internship in History) will be permitted for the thesis program. Internships will not substitute for seminars. After course requirements have been completed students will enroll in thesis research until the thesis is completed.
Students under the thesis option will have 2 years following the completion of their course work to write and defend their thesis.
Students who have not finished the thesis 2 years after completion of course work will be required to transfer to the non-thesis option and will have the third year for the additional course work and comprehensive exam.
The thesis advisor, always a historian, will be selected by the student in consultation with the graduate coordinator once two 6000 level seminars have been completed.
Designation of official manuscript/footnote for thesis, and non-thesis papers: "Chicago Manual of Style," using footnotes rather than endnotes.
An oral defense will be scheduled after the thesis has been approved by the committee.
Committee members will conduct the defense, which may be attended by any member of the graduate faculty. After the defense, the student is responsible for fulfilling the university's requirements regarding the binding of the thesis and its delivery to the UNF library.
All students must apply for graduation during registration for the last semester of courses at UNF.
Deadlines are published online.
SELECT 3 Readings Seminars (9 hrs)

- EUH 6905 Readings in Eur History I
- EUH 6906 Readings in Eur History II
- AMH 6905 Readings in Am History I OR AMH 6907 Readings in Am History II

SELECT A 2 Euro His Res Sems (6 hrs)

- 6000 level
- EUH
- HIS with permission of Graduate Program Director

SELECT B 1 His Research Sem (3 hrs)

- 6000 level
- EUH/AMH/LAH/ASH/AFH/HIS

SELECT C 4 History Courses (12 hrs)

- 5000/6000 level
- EUH/AMH/LAH/ASH/AFH/HIS

HIS6971 Thesis Research (1-6 Credits)

At least 6 hours and no more than 15 hours required in HIS 6971. Continual enrollment (summer exempted) required.

## Table of Contents

Major: Public Administration<br>Concentration: Non-Profit Management<br>Degree: Master of Public Admin.

Prerequisites (6 credits)
SELECT One American Govenment course
One undergraduate course in American Government, or American Political System, or POS 2041 Intro to American Government.

SELECT One Statistics course
One undergraduate course in Statistics; or POS 3713 Political Inquiry and Analysis.
Core Requirements ( 24 credits)
NOTE: PAD 5700 is a prerequisite for PAD 6706, PAD 6066, PUP 6006, and PUP 6007. PAD 6060 is a prerequisite for PAD 6066.
In order to graduate from the program: grades of $C$ or above are required in all MPA courses; grades of $B$ or above are required in at least 7 of the 8 required core courses; and MPA students must meet the minimum graduation requirements for master's degree students at the university. All students must apply for graduation during registration for the last semester of courses in the program. Deadlines are published online.
Students from the UNF undergraduate MPA fast track program who have successfully met the admission requirements of the MPA program are not required to take PAD 6060. They must take the remainder of the MPA core but are further required to take only 3 electives, for a total of 33 hours of graduate course work.

PAD6060 Public Admin in Modern Society (3 Credits)
PAD5700 Public Admin Research Methods (3 Credits)
PAD6417 Human Res in Public/NP Mgmt (3 Credits)
PAD6227 Government Budget and Finance (3 Credits)
PAD6106 Admin Behavior in Public Org (3 Credits)
PUP6006 Prog Eval Pub/NP Mgt (3 Credits)
PAD6436 Ethics in Public Service (3 Credits)
PAD6066 Capstone Seminar (3 Credits)
Prereq: requires permission of MPA director

Major Requirements ( 12 credits)
PAD6142 Mgt of Nonprofit Orgs (3 Credits)
PAD6208 Nonprofit Financial Management (3 Credits)
PAD6164 NPO Stakeholder Relations (3 Credits)
SELECT 1 FROM THE FOLLOWING:
Nonprofit Management elective (from the following, or approved by the MPA
Director):

- PAD 5384 Civic Groups and Public Policy
- E-Governance in Public and Nonprofit Organizations
- EDA 6930 Grants Development and Project Design
- EDA 6706 Grantsmanship

Major Electives (6 credits)
Students are required to take one or two courses, depending upon whether or not they are required to complete an internship, from among other MPA program courses. Other electives from outside the MPA program may be approved by the MPA director.

SELECT 1-2 additional MPA courses

## Table of Contents

Major: History
Concentration: US History (Non-Thesis)
Degree: Master of Arts

Prerequisites (3 credits)
HIS3051 (GW)Craft Of The Historian (3 Credits)

## Major Requirements (36 credits)

A maximum of 9 hrs of HIS 6905 (Directed Independent Study) and/or HIS 6946 (Internship in History) is permitted for the not-thesis option. Independent Studies and Internships may not substitute for required Readings Courses or Research Seminars.
Students must consult with the Graduate Program Director to schedule an oral examination in the spring or fall semester immediately prior to their graduation. In advance of the examination, each student will submit one of the 20-40 page research papers written for a Research Seminar (subsequently revised if they choose) to a committee of three faculty members, at least one of whom will be in the student's field. The committee will review the paper and will examine the student on the paper's historical and historiographic context.
All students must apply for graduation during registration for the last semester of courses at UNF. Deadlines are published online.

SELECT 3 Readings Seminars (9 hrs)

- AMH 6905 Readings in Am History I
- AMH 6907 Readings in Am History II
- EUH 6905 Readings in Eur History I OR EUH 6906 Readings in Eur History II

SELECT A 2 Amer Hist Res Sems (6 hrs)

- 6000 Level
- AMH
- HIS with permission of Graduate Program Director

SELECT B 1 Hist Research Sem (3 hrs)

- 6000 Level
- EUH/AMH/LAH/ASH/AFH/HIS

SELECT C 2 History Courses (6 hrs)

- 6000 Level
- EUH/AMH/LAH/ASH/AFH/HIS

SELECT D 4 History Courses (12 hrs)

- 5000/6000 Level
- EUH/AMH/LAH/ASH/AFH/HIS


## Table of Contents

Major: Public Administration<br>Concentration: Public Policy<br>Degree: Master of Public Admin.

Prerequisites (6 credits)
SELECT One American Govenment course
One undergraduate course in American Government, or American Political System, or POS 2041 Intro to American Government.

SELECT One Statistics course
One undergraduate course in Statistics; or POS 3713 Political Inquiry and Analysis.
Core Requirements ( 24 credits)
NOTE: PAD 5700 is a prerequisite for PAD 6706, PAD 6066, PUP 6006, and PUP 6007. PAD 6060 is a prerequisite for PAD 6066.
In order to graduate from the program: grades of $C$ or above are required in all MPA courses; grades of $B$ or above are required in at least 7 of the 8 required core courses; and MPA students must meet the minimum graduation requirements for master's degree students at the university. All students must apply for graduation during registration for the last semester of courses in the program. Deadlines are published online.
Students from the UNF undergraduate MPA fast track program who have successfully met the admission requirements of the MPA program are not required to take PAD 6060. They must take the remainder of the MPA core but are further required to take only 3 electives, for a total of 33 hours of graduate course work.

PAD6060 Public Admin in Modern Society (3 Credits)
PAD5700 Public Admin Research Methods (3 Credits)
PAD6417 Human Res in Public/NP Mgmt (3 Credits)
PAD6227 Government Budget and Finance (3 Credits)
PAD6106 Admin Behavior in Public Org (3 Credits)
PUP6006 Prog Eval Pub/NP Mgt (3 Credits)
PAD6436 Ethics in Public Service (3 Credits)
PAD6066 Capstone Seminar (3 Credits)
Prereq: requires permission of MPA director

Major Requirements ( 12 credits)
PUP6007 Policy Analysis (3 Credits)
PAD6706 Research Design (3 Credits)
(prereq: PAD 5700, with grade of B or better)
SELECT Two Eelectives from below:
(Other courses may be approved by the MPA Director)

- URP 6058 Urban and Regional Planning
- PAD 5384 Civic Groups and Public Policy
- POS 6158 Policy and Politics in Local Government
- PAD 6256 Public Economics (prereq:PAD 6227 with a grade of B or better)


## Major Electives (6 credits)

Students are required to take one or two courses, depending upon whether or not they are required to complete an internship, from among other MPA program courses. Other electives from outside the MPA program may be approved by the MPA director.

## Table of Contents

Major: History<br>Concentration: US History with Thesis<br>Degree: Master of Arts

Prerequisites (3 credits)
HIS3051 (GW)Craft Of The Historian (3 Credits)

## Major Requirements (36 credits)

Only one section of HIS 6946 (Internship in History) will be permitted for the thesis program. Internships will not substitute for seminars. After course requirements have been completed students will enroll in thesis research until the thesis is completed.
Students under the thesis option will have 2 years following the completion of their course work to write and defend their thesis
Students who have not finished the thesis 2 years after completion of course work will be required to transfer to the non-thesis option and will have the third year for the additional course work and comprehensive exam.
The thesis advisor, always a historian, will be selected by the student in consultation with the graduate coordinator once two 6000 level seminars have been completed.
Designation of official manuscript/footnote for thesis, and non-thesis papers: "Chicago Manual of Style," using footnotes rather than endnotes.
An oral defense will be scheduled after the thesis has been approved by the committee.
Committee members will conduct the defense, which may be attended by any member of the graduate faculty. After the defense, the student is responsible for fulfilling the university's requirements regarding the binding of the thesis and its delivery to the UNF library.
All students must apply for graduation during registration for the last semester of courses at UNF.
Deadlines are published online.
SELECT 3 Readings Seminars (9 hrs)

- AMH 6905 Readings in Am History I
- AMH 6907 Readings in Am History II
- EUH 6905 Readings in Eur History I OR EUH 6906 Readings in Eur History II

SELECT A 2 Amer Hist Res Sems (6 hrs)

- 6000 Level
- AMH
- HIS with permission of Graduate Program Director

SELECT B 1 Hist Research Sem (3 hrs)

- 6000 Level
- EUH/AMH/LAH/ASH/AFH/HIS

SELECT C 4 History Courses (12 hrs)

- 5000/6000 Level
- EUH/AMH/LAH/ASH/AFH/HIS

HIS6971 Thesis Research (1-6 Credits)

At least 6 hours and no more than 15 hours required in HIS 6971. Continual enrollment (summer exempted) required.

## Table of Contents

## Major: Applied Ethics Certificate <br> Degree: Post-Baccalaureate Certificate

Certificate Requirements (12 credits)
The certificate program seeks to foster application of ethical \& philosophical knowledge to concerns in social, political, economic and cultural life. The primary objective is to offer practically oriented but philosophically grounded expertise in ethics and normative theory

PHI5605 Ethics (3 Credits)
PHI6938 Themes Method Applied Ethics (3 Credits)
SELECT 2 ELECTIVES IN APPLIED ETHICS
Decided upon mutually by the student and the graduate coordinator.

- PHI PHP


## Table of Contents

## Major: Nonprofit Management Cert <br> Degree: Post-Baccalaureate Certificate

Certificate Requirements (12 credits)
The Graduate Certificate in Nonprofit Management is composed of 4 required courses (3 common courses and one approved elective) and consists of 12 credit hours that provide participants with detailed knowledge and skills in nonprofit management. Students are not required to be admitted to the MPA or any other UNF graduate program to earn the certificate. However, students enrolled in any UNF graduate program can earn the certificate by taking the following courses.

PAD6142 Mgt of Nonprofit Orgs (3 Credits)
PAD6164 NPO Stakeholder Relations (3 Credits)
PAD6208 Nonprofit Financial Management (3 Credits)
SELECT 1 FROM THE FOLLOWING:
(other courses as approved by the MPA Director)

- PAD 5384 Civic Groups and Public Policy
- E-Governance in Public Nonprofit Organizations
- EDA 6930 Grants Development \& Project Design
- HSC 6706 Grantsmanship


## Table of Contents

## Major: Civil Engineering <br> Degree: MS in Civil Engineering

## Major Requirements

MSCE Requirements: (30 credit hours)
The Civil Engineering master's degree consists of a minimum of 30.0 credit hours.
Students select from one of two degree options: (1) thesis or (2) non-thesis.
**All programs of study must be approved by the School of Engineering Graduate Program
Director prior to the end of the second semester of graduate study.**

UNF Conditions for the degree:
For more details on the below and additional conditions, refer to the UNF Graduate School's webpage: http://www.unf.edu/graduateschool/

- 1. A GPA of 3.0 must be maintained. If the GPA falls below 3.0, probation will result.
- 2. At least 18.0 hours of coursework at the 6000-level must be applied toward the degree.
- 3. All coursework for a graduate or post-baccalaureate professional degree must be completed within six years of a master's degree-seeking student being admitted to a graduate program. All exceptions must be approved by the student's Graduate Program Director and the Dean of the Graduate School.

School of Engineering Conditions for the degree:

- 1. All coursework must be completed with a grade of 'C' or better.
- 2. A GPA of 3.0 must be maintained. If the GPA falls below 3.0, academic probation will result.
- 3. No more than 6.0 hours of transfer coursework can be applied to the degree, with the following exception:
A student may transfer up to 12.0 hours from online graduate courses taken within the Florida State University System, provided the total of all transfer courses does not exceed 12 credit hours.
- 4. A student may not receive 5000 -level credit for a cross-listed $4000 / 5000$-level course previously completed at the 4000-level. Exceptions to this rule may be considered with documented evidence of significant and appropriate differences in content between the courses.


## EGN6456 Advanced Engineering Analysis (3 Credits) <br> or approved substitute graduate mathematics course. See list of approved electives <br> in the School of Engineering office.

```
EGN6457 Adv. Res. Methods for Engineer (3 Credits)
RESEARCH for Thesis option --
Thesis option: Select 6.0 hrs of CGN 6970 CE Thesis.
(Non-thesis option will select 6.0 hrs of additional electives, as indicated below.)
```


## SELECT Required Electives --

1. Civil Engineering Electives: select a minimum of 12.0 hrs from the list below or other CE electives approved by the Graduate Advisor.

- CEG 5304 Applied Engineering Geology
- CEG 6016 Advanced Geotechnical Engineering
- CEG 6018 Applied Computational Geotechnics
- CEG 6118 Advanced Foundation Engineering
- CEG 6320 Drilled Shafts in Rock
- CEG 6515 Earth Retaining Sys/Slope Stability
- CEG 6806 Ground and Site Improvement
- CES 5326 Bridge Engineering
- CES 5706 Advanced Reinforced Concrete
- CES 6144 Matrix Structural Analysis
- CES 6715 Prestressed Concrete
- CES 6116 Finite Element
- CGN 6875C Adv Concrete Materials/Methods
- CWR 5545 Water Resources Systems
- CWR 5305 Stormwater Management
- CWR 6005 Introduction to Coastal Engineering
- CWR 6150 Engineering Hydrology
- CWR 6236 River Engineering/Sediment Transport
- ENV 5640 Design of Water Quality Mgmt Facilities
- ENV 6510 Aquatic Chemical Processes
- ENV 6511 Biological Treatment Systems
- ENV 6519 Physical/Chemical Treatment Systems
- TTE 5805 Advanced Highway Geometric Design
- TTE 5255 Traffic Signal Systems
- TTE 5205 Operational Analysis of Trans Facilities
- TTE 6272 Intelligent Transportation Systems
- TTE 6315 Highway Safety Analysis
- CGN 5932 Special Topics in Civil Engineering (v1-3)
- CGN 6933 Special Topics in Civil Engineering (v1-3)
- CGN 6900 Supervised Graduate Research (v1-3) can be repeated up to 6 hours.

2. Other Electives: Select sufficient hours of non-civil engineering electives at the graduate level to earn a total of 30.0 hours in the program. CE electives may be used to satisfy this requirement.

- Thesis option: Select up to 6.0 hours of non-civil engineering electives. Electives must be approved by the Graduate Advisor.
- Non-thesis option: Select up to 12.0 hours of non-civil engineering electives. A list of approved electives is available in the School of Engineering.

Note: Civil engineering elective courses may also be selected from on-line courses from Florida State University System within the limitations discussed above, and must be approved by the Graduate Advisor for thesis students and by the Graduate Program Director or Graduate Advisor for non-thesis students.

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Major: ASL/English Interpreting
Concentration: General Practice
Degree: Master of Science

Major Requirements (36 credits)
INT5457 Interp Intercultural Contexts (3 Credits)
INT5805 Mentoring Int. Ed. (3 Credits)
INT5954 Service Learn DC (3 Credits)
INT6276 Teaching Cognitive Processing (3 Credits)
INT6277 ASL Exp. Comp. Tech. (3 Credits)
INT6425 Interp in Legal Settings (3 Credits)
INT6435 Mental Health Interpreting (3 Credits)
INT6436 Healthcare Interpreting (3 Credits)
INT6911 Applied Reasearch Interpret (3 Credits)
INT6944 Interpreting Internship (6 Credits)
INT6990 Experimental: Education (0-12 Credits)

## Table of Contents

Major: ASL/English Interpreting
Concentration: Interpreting Pedagogy
Degree: Master of Science

Major Requirements (36 credits)
INT5457 Interp Intercultural Contexts (3 Credits)
INT5800 Interp. Ed: Past, Pres. Future (3 Credits)
INT5801 Leadership in Interpreter Ed. (3 Credits)
INT5805 Mentoring Int. Ed. (3 Credits)
INT5954 Service Learn DC (3 Credits)
INT6276 Teaching Cognitive Processing (3 Credits)
INT6810 Curriculum Dev. and Rev. (3 Credits)
INT6830 Adult Trans. Learn Interp Ed (3 Credits)
INT6840 Distance Learning Int. Ed. (3 Credits)
INT6911 Applied Reasearch Interpret (3 Credits)
INT6942 Internship I (3 Credits)
INT6943 Internship II (3 Credits)

## Table of Contents

## Major: Elementary Education <br> Concentration: Professional Education <br> Degree: Master of Education

Core Requirements (6 credits)
EDF6480 Foundations of Ed Research (3 Credits)
EDF6607 Education in America (3 Credits)

Major Requirements ( 12 credits)
EDE6205 Teaching All Children (3 Credits)
EDE6225 The Element School Curriculum (3 Credits)
SELECT 1 from the following:

- EDG 6356 Models of Teaching
- EDG 6407 Managing Effective Learning Env.
- EDF 5608 Sociological Bases of Education
- EME 6050 Enhancing Instruction w/Technology
- EDF 6442 Assessment in the Curriculum

SELECT_ 1 from the following:

- LAE 6319 Lang. Arts Methods for Elem. Teachers
- SCE 6117 Science for Elem.Teachers
- MAE 6318 Mathematics for Elem. Teachers
- EEC 6611 Early Childhood Education
- RED 6000 Lang \& Cognitive Foundations for Reading
- TSL 6345 ESOL Methods
- EDE 6935 Special Topics
- SSE 6318 Social Study Methods: Elem

Major Electives (12 credits)

SELECT From the following:

- In consultation with your program leader, select 4 graduate (5000-6000 level) courses from the following prefixes:EDE/EEC/EGI/EME/LAE/MAE/RED/SSE/SCE/TSL

Culminating Experience (6 credits)
CHOOSE ONE OF THE FOLLOWING OPTIONS:

OPTION ONE:

- EDF 6971 Research Master Thesis (1-6 hrs) OPTION TWO:
- EDE 6940 Professional Lab Experience (1-6 hrs)
- EDF 6905 Research Studies in Education (3) OPTION THREE:
- 6 semester hours of Program Electives in consultation with program sponsor.


## Table of Contents

Major: Certificate in TESOL
Degree: Post-Baccalaureate Certificate

Certificate Requirements (18 credits)
TSL6142 ESOL: Curriculum Development (3 Credits)
TSL6252 Principles of Ling/ESOL (3 Credits)
TSL6345 ESOL Methods (3 Credits)
TSL6350 Grammar for Teachers of ESOL (3 Credits)
TSL6440 Assessment in ESOL Settings (3 Credits)
TSL6525 Cross Culture Comm/Knowledge (3 Credits)

## Table of Contents

## Major: Sport Management

Degree: Post-Baccalaureate Certificate

Certificate Requirements (15 credits)
*Students who have an undergraduate degree in Sport Management are not required to take SPM 6608 Foundation in Sport Management, therefore completing the certificate with 12 hours.

SPM5206 Ethics and Issues in Sport (3 Credits)
SPM5308 Mkt and Promo in Sport (3 Credits)
SPM5506 Sport Finance (3 Credits)
SPM5605 Sport Gov and Compl (3 Credits)
SPM6008 Foundations of Sport Mgt (3 Credits)

## Table of Contents

Major: Early Childhood Education Cert Degree: Post-Baccalaureate Certificate

Certificate Requirements (18 credits)
EEC6205 C and I in Early Childhood Ed (3 Credits)
EEC6261 Infants and Toddlers (3 Credits)
EEC6611 Early Childhood Education (3 Credits)
EEC6756 Social-Emotional Development (3 Credits)
EEC6944 Practicum Early Childhood Ed (3 Credits)
RED6000 Lang and Cognit Found for Read (3 Credits)

## Table of Contents

Major: Transformation of Conflict
Degree: Post-Baccalaureate Certificate

Certificate Requirements (18 credits)
EDA6991 Exp: Educational Admin (0-12 Credits)
EDG6403 Foundations of Conflict Trans (3 Credits)
ELECTIVES Select 3 courses ( 9 hours)

Students should see the Program Director for specific pre-approve electives to select from.

- Student can refer to the following website for more information.
- http://www.unf.edu/~ccarter/ct/

PAX6490 Practicum Conflict Transf.

## Table of Contents

Major: Educational Leadership Cert

## Degree: Post-Masters Certificate

Certificate Requirements (24 credits)

- A previous Master's degree is required for this program
- Copy of Florida Teaching Certificate is required
- Students should meet with the Program Director

EDA6061 Introduction to Ed Leadership (3 Credits)
EDA6196 Leadership/Learning Organizat (3 Credits)
EDA6215 Developing School/Comm Resourc (3 Credits)
EDA6232 Law and Ethics in Edu Lead (3 Credits)
EDA6242 School Finance (3 Credits)
EDA6271 Technology and Ed Leadership (3 Credits)
EDG6625 Curriculum Leadership Schools (3 Credits)
EDS6130 Human Resource Deve in Educati (3 Credits)


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## Undergraduate Program Information

## Undergraduate Academic Policies

The College of Computing, Engineering, and Construction adheres to all academic policies and regulations of the University. In addition, the School of Computing has policies which apply to all
undergraduate students in the School of Computing.

- Admission
- Admission with less than 2.0 Grade Point Average
- Academic Advising
- Transfer Coursework
- Concurrent Coursework
- Directed Independent Study
- Experiential Learning (Co-op)
- Satisfactory Progress Policy
- Probation/Suspension Policy
- Honors in the Major

Individuals needing clarification of any of these policies, or an interpretation of how a policy might apply in a given situation, should contact the School office located in the Mathews Building, Building 15/Room 3201.

## Admission

Students seeking admission to the School of Computing must meet the general requirements of the University relative to admission. Students lacking any program prerequisites are encouraged to complete these courses as soon as possible to be on-track for a timely graduation.

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## Admission With Less Than 2.0 Graduate Point Average

Students who are admitted with less than the minimum 2.0 grade point average are placed on academic probation. Special conditions for admission are outlined by the director of the School, and students must meet these conditions in order to continue their studies in the School of Computing.
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## Academic Advising

When a student is admitted to the School of Computing, an advisor will prepare a degree evaluation (program of study) outlining the program requirements.

Students considering majoring in a computing program are strongly encouraged to meet with a School advisor as early as possible. Advising appointments for development of a personalized degree evaluation must be scheduled within the first semester of attaining junior status. Advising appointments are scheduled through the School office, (904) 620-2985.
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## Transfer Coursework

Students desiring to transfer upper-level course work to the School of Computing must have the work approved by an academic advisor. With approval, a maximum of 10 credit hours of upper-level transfer course work may be used in the student's program of study. Upper level course work completed more than five years prior to the beginning of continuous enrollment at UNF may not be applied toward the program unless validated. Continuous enrollment is defined as enrollment as a degree-seeking student and completion of one or more courses per term without a break of three consecutive terms.
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## Concurrent Coursework

Once a student is admitted to UNF, the student may not complete course work at another institution
for transfer to UNF without a School advisor's approval and completion of a Concurrent Enrollment Form with proper authorizations prior to starting the transfer courses. It is expected that once a student enrolls in the College of Computing, Engineering and Construction, he/she will complete all prerequisite and major courses at UNF.

Concurrent enrollment at another college or university is not allowed during a student's graduating semester.
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## Directed Independent Study

No more than six credit hours of directed independent study may be applied to a student's program of study. A maximum of three credit hours with the same Computing faculty member is allowed. All directed independent study proposals must be approved by the director of the School.

## Experiential Learning (Co-op)

No more than six credit hours of experiential learning (co-op) credit may be applied to a student's program of study. All co-op proposals must be approved by the director of the School. Co-op experiences are considered free electives and cannot be used as major or minor electives.
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## Satisfactory Progress Policy

The School enforces a "one repeat" rule for all prerequisite and core requirements taught by the School. Students who do not successfully complete a computing prerequisite or core requirement on the first attempt (i.e. earn a grade of D, F, W, WP or WF) have one chance to repeat the course. Students who do not successfully complete a computing prerequisite or core requirement within two attempts will not be permitted to register for computing courses in future semesters. This policy applies to majors and minors in the School of Computing.
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## Probation/Suspension Policy

An undergraduate student who fails to earn a cumulative or term GPA of 2.0 after attempting a cumulative total of 12 or more credit hours will be placed on academic probation. Academic probation is a warning. If both the term and cumulative GPA fall below 2.0 during the next term of enrollment, the student will be eligible for suspension. The School of Computing Suspension Review Committee (SRC) will determine the action to be taken in each case. If suspended, the student will be dropped from any courses currently registered and denied the opportunity to re-enroll. The duration of suspension varies in accordance with recommendations of the SRC. At a minimum, if suspended the student is not allowed to take coursework for one semester.

A suspended student who desires to be reinstated to the School must submit a Request for Reinstatement to the School of Computing. The request must be received at least two weeks prior to the University's admission deadline for the term the student intends to return. The Request for Reinstatement can be obtained from the School office. The SRC meets once a term to review requests. Recommendations of the SRC are submitted to the School director and College dean for final decision.
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## Honors in the Major Program

The Honors Program at UNF is designed for the student who is intellectually mature and seeks the challenge of academic work different from the traditional course of study. It offers students a close collegial relationship with the University's top professors and with each other. There are two types of honors programs at the University of North Florida. The lower level Honors Program is open to freshmen and sophomores.

The upper level "Honors in the Major" program is open to juniors and seniors in the School of Computing. A student does not have to be in the lower level Honors Program to enroll in the upper level "Honors in the Major" program.

The "Honors in the Major" program in the School of Computing includes experience with a faculty mentor, research experience, honors colloquium, and special recognition on the student's transcript and diploma.

Admission is competitive and limited to students with a cumulative GPA of 3.5 or better. More information on additional admission requirements and procedures for applying to the program can be obtained from a School of Computing Academic Advisor.

## Computer Science Program, B.S.

The Computer Science Program at the University of North Florida is accredited by the Computing Accreditation Commission (CAC) of ABET, http://www.abet.org.

This program is modeled according to the recommendations of the ACM (Association for Computing Machinery) and the IEEE-CS (Computer Society of the Institute for Electrical and Electronics Engineers). It emphasizes course work in computational structures, systems software, data structures, artificial intelligence, algorithms, data modeling, modeling and simulation, computer graphics, compilers, operating systems, interfacing, computer architecture, robotics, and other applications and theory.

Graduates will be prepared for careers in systems development and programming involving compiler, operating system and database design, modeling and simulation, artificial intelligence and robotics, computer graphics, computer architecture and interfacing, computer communications and scientific applications.

The Computer Science Program requires a strong background in mathematics and science, including calculus and calculus-based physics. It is recommended for those interested in the more technically and scientifically oriented areas of computing.

The Computer Science Academic Learning Compact articulates the program's educational objectives and outcomes.
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## Information Systems Program, B.S.

The Information Systems Program is accredited by the Computing Accreditation Commission (CAC) of ABET, http://www.abet.org.

This program follows the curriculum recommendations of the Association of Information Technology Professionals (AITP). The Information Systems Program combines computer course work with a complementary selection of business courses. The Information Systems Program is strongly recommended for those interested in business-oriented computer applications. The business minor is a required and integral component of the Information Systems Program.

Computer courses include systems analysis, systems implementation, computer communications, database processing, and other courses focused on implementation of computer solutions to business problems. Graduates will be prepared for careers as applications programmers, systems analysts, or information systems managers.

The Information Systems Academic Learning Compact articulates the program's educational objectives and outcomes.

The Information Science Program is accredited by the Computing Accreditation Commission (CAC) of ABET, http://www.abet.org.

This program is identical in computer course work to the Information Systems program; however, the student may select a minor from an area other than business administration. Depending upon the choice of a minor, graduates will be prepared for careers as systems programmers, applications programmers, systems analysts or other specialized computer-related professionals.

In addition to the computing course work, the Information Science Program requires studies in a minor area other than business administration. A minor consists of a planned selection of courses supportive of the major. Minors are described in the UNF catalog under the appropriate college. Courses applied toward the major may not be counted in the minor.

This major incorporates the same computing courses as the Information Systems Program and is only recommended for a student who has a strong interest in a secondary field other than business administration. It can also be used for a post baccalaureate student seeking a second bachelor's degree; as a minor is not required for a second bachelor's degree.

The Information Science Academic Learning Compact articulates the program's educational objectives and outcomes.
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## Information Technology Program, B.S.

The Information Technology Program is accredited by the Computing Accreditation Commission (CAC) of ABET, http://www.abet.org.

In an effort to meet the demands of an ever-changing technology market, the school offers a program in Information Technology with concentrations in Computer Networking, Mobile Computing, and Computer Security Administration. This program combines professional requirements with general education requirements and electives to prepare students for a career in the information technology field or for graduate work in Information Technology.

Students completing this program will be specialists ready to face high expectations of organizations with respect to planning, implementation, configuration, and maintenance of a computing infrastructure. They will be able to apply computing principles and concepts by participating in practical activities throughout the program. By selecting one of three available concentrations, students attain expertise in an area of growing demand.

The Information Technology Academic Learning Compact articulates the program's educational objectives and outcomes.
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## Graduate Program Information

## Graduate Academic Policies and Requirements

The College of Computing, Engineering, and Construction adheres to all academic policies and regulations of the University. In addition, the School of Computing has policies which apply to all graduate students in the School of Computing.

- Admission
- Program Requirements
- Academic Policies and Requirements

Individuals needing clarification of any of these policies, or an interpretation of how a policy might apply in a given situation, should contact the School office located in the Mathews Building, Building 15/Room 3201.

## Admission

In addition to satisfying general University of North Florida criteria for admission into a graduate program, students who wish to enter the degree program leading to the M.S. in Computer and Information Sciences must present:

1. GRE scores:

- Taken prior to July 1, 2011: composite score of 1000 (400 verbal, 600 quantitative) or higher,
- Taken after July 1, 2011: 144 verbal, 148 quantitative

2. A grade point average of 3.0 or higher in all work attempted as an upper level student, normally the 60 credit hours taken during the last two years of undergraduate study, and
3. An undergraduate degree supporting graduate study in one of computer science, information systems, or software engineering.

A student who does not have a degree in the field will need to complete preparatory course work with grades of "B" or above as a post-baccalaureate student before seeking admission into the graduate program. Such students may make an appointment with an advisor to develop a program of study to meet background preparation requirements in computer science, information systems, or software engineering as outlined below:

## Computer Science Preparation

- Computability (COT 3210 at UNF)
- Data Structures (COP 3530 at UNF)
- Systems Software (COP 3404 at UNF)


## Information Systems Preparation

- Object-Oriented Programming \& Data Structures (COP 3538 at UNF)
- Database Systems (COP 4720 at UNF)
- Financial Analysis (FIN 5405 at UNF)
- Management and Marketing (MAN 5036 at UNF)


## Software Engineering Preparation

- Object-Oriented Programming \& Data Structures (COP 3538 at UNF)
- Database Systems (COP 4720 at UNF)

Note: Each of the prerequisite courses listed has its own prerequisites.
A student who meets all admission requirements should apply for admission as a graduate student through the Graduate School at UNF, designating one of the following concentrations: computer science, information systems, or software engineering. When all transcripts and test scores have been received by the Graduate School, the completed application package is forwarded to the School of Computing where it is considered by the School's graduate committee for admission to computer science, information systems, or software engineering. Upon notification of admission to the graduate program, the student will be invited to meet with the graduate program director for preparation of a program of study.

Note: All applications, transcripts, test scores, and supporting documents must be sent directly to The Graduate School, University of North Florida, 1 UNF Drive, Jacksonville, FL 32224.
For complete details on graduate admission, refer to the UNF Graduate School's webpages.
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## Program Requirements

The degree candidate is required to complete 30 credit hours of course work and a master's thesis (at least 6 credit hours), prepared according to School and University guidelines. The thesis requires
a significant literature review and the application, synthesis, and/or extension of the knowledge gained, in such as way as to enhance the discipline of the computing sciences. A supporting programming project may be undertaken to the extent that it provides insight or data for subsequent research. The overall effort is to be research-oriented or have a unique and specific application.

## Academic Policies and Requirements

1. All courses taken for credit towards the master's degree must be on an approved program of study developed with the graduate program director.
2. A total of 36 credit hours of approved 5000 and 6000 level courses must be completed.
3. A minimum of 21 credit hours at the 6000 level must be taken within the School (includes 6 credit hours of CIS 6970, thesis).
4. With the prior approval of the graduate program director, the program of study may include up to two directed independent studies, each one taken with a different faculty member.
5. Up to 6 credit hours may be transferred in or taken from other colleges within the University or through FEEDS with prior approval of the graduate program director.
6. Generally, courses applied to the program of study must be completed with a grade of " $B$ " or above. However, one course with grade of "C" may be applied to the program of study, provided the student's GPA does not fall below a 3.0. A course may be repeated no more than once, with the exception of CIS 6970 (thesis).
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## Computer Science Program, M.S.

The Computer Science Program for the M.S. in Computer and Information Sciences is designed to add breadth and depth to a typical bachelor's degree program in computer science. Breadth must be demonstrated in the areas of computer networks, operating systems, algorithms, and databases. Depth must be accomplished in the areas of graphics/interfaces, networks, advanced systems, and data/language paradigms. Overall mastery of the discipline is demonstrated by submission of a master's thesis.

An academic background in Computer Science is required for entry into the program. Grades of "B" or above are expected in any preparatory course work taken at UNF.
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## Information Systems Program , M.S.

The Information Systems Program for the M.S. in Computer and Information Sciences is designed to build upon a bachelor's degree program in information systems that has substantial content in both software development and business practice. Technical core content provides hands-on software engineering that addresses software life-cycle, database engineering, and project management issues. Business core content is oriented towards e-commerce issues in management, marketing, and finance. Additional technical coursework in software engineering assures depth in one or more additional subject areas. Overall mastery of the discipline is demonstrated by submission of a master's thesis.

An academic background in Information Systems is required for entry into the program. Grades of " B " or above are expected in any preparatory course work taken at UNF.
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## Software Engineering Program, M.S.

The Software Engineering Program for the M.S. in Computer and Information Sciences is designed to build upon a CIS bachelor's degree program, which has substantial content in software development. Core content for the program emphasizes hands-on software engineering as practiced in this day and time. Additional coursework in software engineering assures depth in one or more subject areas. Experience in the practice of software engineering is emphasized by participation in a "real-world" supervised group project. Overall mastery of the discipline is demonstrated by
submission of a master's thesis.
An academic background that includes software development principles and techniques is required for entry into the program. Grades of " B " or above are expected in any preparatory course work taken at UNF.

## Accelerated BS/MS Computer Science Program

The School of Computing offers an accelerated program which allows students to obtain both Bachelor's and Master's Degrees in Computer Science in as little as 5 years.

Committed students who are academically motivated can take advantage of this program of study. This program requires a strong background in mathematics and science, including calculus and calculus based physics.

Unique Program Characteristics:

- Students interested in the program can begin taking core computer science classes (3000level) as early as the first semester of their second year.
- A maximum of 15 credits of approved coursework can be applied toward both degrees.
- Upon completion of the program ( 141 credits) students will be awarded both their BS and MS degrees.


## Selective Admission:

- You must apply to the School of Computing for acceptance into this accelerated program during the term in which you will complete the 3000-level computer science required courses, and have at least 60 credit hours towards your BS degree.
- You must have earned an "A" in at least 3 of the 3000 -level required computer science classes, and no less than a " B " in 3 other 3000-level required computer science classes.

Transition to Graduate Program:

- Prior to earning 120 credit hours, you must successfully complete the General Record Exam (GRE ) with a total verbal and quantitative score of 1000 or higher.
- You must apply through admissions for acceptance into the graduate computer science program as well as having your GRE scores submitted.

Meet with a School of Computing academic advisor early in your first year at UNF to develop a schedule that will prepare you for admission to this program.


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## General Education Requirements

Please note that other courses may qualify for General Education credit. Please refer to the course schedule each semester for a complete listing of General Education courses.

| English Composition |  |  | 9 Credits |
| :---: | :---: | :---: | :---: |
| Required | *ENC 1101 | (GW) Introduction to Rhetoric and Writing | 3 |
| Required | *ENC 1143 | (GW) Introduction to Rhetoric and Narrative | 3 |
| Choose 1: | ENC 1102 | (GW) Informed Writer | 3 |
|  | ENC 2210 | (GW) Technical Writing | 3 |
|  | ENC 2441 | (GW) Writing Topics: Fine Arts | 3 |
|  | ENC 2442 | (GW) Writing Topics: Humanities | 3 |
|  | ENC 2443 | (GW) Writing Topics: Literature | 3 |
|  | ENC 2450 | (GW) Writing Topics: Natural Science | 3 |
|  | ENC 2451 | (GW) Writing Topics: Health | 3 |
|  | ENC 2460 | (GW) Writing Topics: Business | 3 |
|  | ENC 2461 | (GW) Writing Topics: Social Science | 3 |
|  | ENC 2462 | (GW) Writing Topics: Education | 3 |
|  | ENC 2463 | (GW) Writing Topics: Engineering | 3 |
|  | ENC 2930 | (GW) Special Topics in Composition | 3 |
|  | ENC 3250 | (GW) Professional Communication | 3 |
|  | *LIT 2932 | (GW) Special Topics in Literature | 3 |
|  | *CRW 2000 | (GW) Introduction to Creative Writing | 3 |
|  | *CRW 2100 | (GW) Introduction to Fiction Writing | 3 |
|  | *CRW 2201 | (GW) Introduction to Creative NonFiction Writing | 3 |
|  | *CRW 2300 | (GW) Introduction to Poetry Writing | 3 |
|  | *CRW 2400 | (GW) Introduction to Playwriting | 3 |
|  | *CRW 2600 | (GW) Introduction to Screen Writing |  |
|  | **CRW 2930 | (GW) Special Topics in Creative Writing | 3 |

(GW) courses require evaluated college-level writing and must be completed with a grade of " C " or higher.

* ENC 1101 and ENC 1143 are prerequisites for all other writing courses. ENC 1101 and ENC 1143 may be taken in any order or at the same time.

| Mathematics: |  | 6 Credits |  |
| :--- | :--- | :--- | :--- |
| Choose 2: | MGF 1106 | G(M) Finite Math | 3 |
|  | MGF 1107 | G(M) Explorations in Mathematics | 3 |
|  | MGF 1113 | G(M) Mathematics for Teachers I | 3 |
|  | MAC 1105 | G(M) College Algebra | 3 |
|  | MAC 1101 | G(M) Intensive College Algebra | 4 |
|  | MAC 1147 | G(M) Precalculus | 4 |
|  | STA 2014 | G(M) Elem. Stat. for Health \& Soc. | 3 |
|  | *MAC 2233 | Sci. |  |
|  | *STA 2023 | G(M) Calculus for Business | 4 |
|  | **MAC 2311 | Business | 3 |
|  | MAC 2312 | G(M)Calculus I Calculus II | 4 |
|  |  |  | 4 |

At least one course must have a mathematical prefix: MAC or MGF. G(M) courses must be completed with a grade of "C" or higher.* Prerequisite MAC 1105 or MAC 1147 **Prerequisite MAC 1147

| Humanities: |  |  | 9 Credits |
| :--- | :--- | :--- | :--- |
| a) Choose 1: | WOH 1012 | G(W)World History I | 3 |
|  | WOH 1022 | G(W)World History II | 3 |
| b) Choose 1: | PHI 2010 | G(W)Introduction to Philosophy | 3 |
|  | PHI 2100 | G(W)Reasoning and Critical | 3 |
|  |  | Thinking |  |
| c) Choose 1: | PHI 2630 | G(W) Contemporary Ethical Issues | 3 |
|  | ARH 2000 | Art Appreciation | 3 |
|  | MUH 2012 | Enjoyment of Music | 3 |
|  | MUH 2017 | History and Appreciation of Rock | 3 |
|  | MUH 2018 | The Evolution of Jazz | 3 |
|  | ARH 2050 | Art History Survey I | 3 |
|  | ARH 2051 | Art History Survey II | 3 |
|  | LIT 2000 | G(W) Introduction to Literature | 3 |
|  | MUT 1111 | Theory 1 (Music dept. permission | 3 |
|  | FIL 2000 | required.) |  |
|  | THE 2000 | Introduction to Film Studies | 3 |
|  | Theater Appreciation | 3 |  |

Additional ARH/HUM/MUH courses may be taken to fulfill the non-applied fine art requirement.

| Social Sciences: |  | 6 Credits |  |
| :--- | :--- | :--- | :--- |
| Part A: Introductory   <br> Social Science. AMH 2020 U.S. History Since 1877 | 3 |  |  |
| Choose 1: |  |  |  |
|  | CCJ 2002 | Crime in America | 3 |
|  | ECO 2013 | Principles of Macroeconomics | 3 |
|  | HSC 2100 | Personal and Community Health | 3 |
|  | POS 2041 | Introduction to American | 3 |
|  | PSY 2012 | Government | Introduction to Psychology |

## Choose 1:

| *GEO 2420 | CD-Cultural Geography | 3 |
| :--- | :--- | :--- |
| ANT 2423 | CD-Kinship and Family | 3 |
| ASN 2003 | CD-Introduction to Asia | 3 |
| MMC 2701 | CD-Communicating Across | 3 |
|  | Cultures |  |
| PUP 2312 | CD-Race/Gender/Politics | 3 |
| REL 2300 | CD-Comparative Religion | 3 |
| SYG 2013 | CD-Sex, Race and Social Class | 3 |

A complete list of CD courses are listed with the online schedule each semester. *Can satisfy either Part A or Part B but NOT BOTH.

| Natural Sciences: |  | 6 Credits |  |
| :--- | :--- | :--- | :--- |
|  | AST 2002 | Astronomy | 3 |
|  | AST 2002L | Astronomy Lab | 1 |
|  | BSC 1005C | Principles of Biology (Non-Science <br> majors) | 4 |
|  | BSC 1010C | General Biology (Science majors) | 4 |
|  | BSC 1930 | Current Application in Biology | 2 |
|  | CHM 1025 | Introduction to Chemistry | 2 |
|  | CHM 1025L | Introduction to Chemistry Lab | 1 |
|  | CHM 2045 | General Chemistry I | 3 |
| CHM 2045L | General Chemistry I Lab | 1 |  |
|  | ESC 2000C | Earth Science | 3 |
| *HUN 1001 | Introduction to Nutrition Science | 2 |  |
|  | HUN 2201 | Basic Principles of Nutrition | 3 |
| PHY 1020 | Introduction to Physics | 2 |  |
| PHY 1020L | Introduction to Physics Lab | 1 |  |
| PHY 2053 | Algebra Physics I | 3 |  |
| PHY 2053L | Algebra Physics I Lab | 1 |  |
| PHY 2048 | Calculus Physics I | 4 |  |
| PHY 2048L | Calculus Physics I Lab | 1 |  |

Some majors require specific courses. Consult your advisor.

* Prerequisite BSC 1005C or BSC 1010C


## Total: 36 Credits

*** This program meets the requirements for the UNF Associate in Arts (A.A.) degree. The award of the A.A. requires 60 credit hours, 30 hours of which must be in residence at UNF.

## Transfer Students with 60+ (Junior/Senior) Credits **

Refer to College-Level Communication \& Computation Skills for a list of courses that will satisfy the Gordon Rule composition and mathematics requirements.

Composition: 9 Credits English Composition I plus any combination of two English composition, creative writing, or literature courses which must contain college-level written work. Grades of " C " or higher are required.

Mathematics: 6 CreditsTwo courses at the college algebra level or higher. Only one course may be selected from Elementary Statistics or Symbolic Logic. Grades of " C " or higher are required.

Social Sciences: 6 Creditsa) Any semester-length course selected from the following: anthropology, economics, geography, history, political science, psychology, or sociology.
b) A social science course from a different disciplinary area from that selected above and which has
significant emphasis on cultural diversity in anthropology, economics, geography, history, political science, psychology or sociology.

Humanities: 9 CreditsTwo courses chosen from history, philosophy or other humanities disciplines. Grades of "C" or higher are required. Additional courses may come from art history, history, literature, non-applied music history, philosophy, religion, theatre, and other courses with HUM prefixes. No more than one course may be used from each discipline.

Natural Sciences: 6 CreditsSix credit hours of laboratory science in astronomy, biology, chemistry, geology or physics. This requirement may be fulfilled with two 3-hour lab-sciences or a 4-hour labscience and a 2- or 3-hour lecture course.

## Total: 36 Credits

**Approved upper division courses may be used to satisfy these requirements.

## Florida and Community College Associate in Arts (A.A.)

## Degree Graduates

An Associate in Arts (A.A.) degree from a Florida public university or community college satisfies the general education requirements at UNF.

Total: 36 Credits


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## State Foreign Language Requirement

By action of the Florida Legislature, undergraduate students who enter a state university in Florida are subject to a foreign language admission requirement. To satisfy the requirement, a student must present evidence of:

1. The completion of two years of sequential foreign language or American Sign Language study in high school, or
2. The completion of 8-10 semester hours of sequential foreign language or American Sign Language at the post-secondary level, or
3. Proficiency through a satisfactory score on the MAPS test for Latin or CLEP foreign language examination.

Transfer students are exempt from this requirement if they received an Associate in Arts degree before September 1, 1989, from a Florida public community college or university or were enrolled before August 1, 1989, in an Associate in Arts degree program at a Florida community college and maintained continuous enrollment until admitted to the University. These students do not have to take a foreign language to be admitted to the University; neither do they have to take it prior to graduation unless the program major has a foreign language graduation requirement.

The University may admit applicants who do not meet the foreign language admissions requirement as exceptions. Students admitted as exceptions must complete 8-10 credit hours of foreign language study or 8-10 credit hours of American Sign language or prove proficiency in a foreign language prior to admission at the upper-level through a satisfactory score on the College EntryLevel Assessment (CELA), formerly (MAPS) test, or CLEP foreign language examination. To prove proficiency in a native tongue other than English, students must submit a valid high school academic transcript from their home country.

All incoming students who have studied French and Spanish in high school must take the free online French and Spanish placement tests prior to enrolling at UNF. Based on that score, students will be advised at which course level to enroll should they choose to pursue further studies in French or Spanish.

All heritage or native speakers of French or Spanish (who may not have studied the language in high school) must take the on-line placement test prior to enrolling in French or Spanish courses. In order to be placed appropriately, native speakers of French or Spanish must also meet with the Chair of the Department of Languages, Literatures and Cultures.

All Chinese students who have studied the language at the high school level or who are heritage speakers of the language must meet with the Chair of the Department of Languages, Literatures and Cultures prior to enrollment. The chair will refer them to the Chinese Program Coordinator to ascertain the level at which they must begin their language studies.

Students who enroll in French, Spanish or Chinese at the University of North Florida will be advised that they are eligible for up to six credit hours of retroactive credit as determined by placement and satisfactory completion of specific language courses.

| Course | Title | Credits |
| :--- | :--- | :--- |
| ASL 2140 | American Sign Language I | 4 hours |
| ASL 2150 | American Sign Language II | 4 hours |
| CHI 1120 | Beginning Chinese I | 4 hours |
| CHI 1121 | Beginning Chinese II | 4 hours |
| CHI 2200 | Intermediate Chinese I | 3 hours |
| CHI 2201 | Intermediate Chinese II | 3 hours |
| FOL 1950 | Beginning Foreign Language Study Abroad | $3-6$ hours |
| FOL 2930 | Beginning Foreign Language I | 4 hours |
| FOL 2931 | Beginning Foreign Language II | 4 hours |
| ** FOL 2952 | Intermediate Foreign Language Study Abroad | $3-6$ hours |
| ** FOL 3930 | Special Topics in Foreign Language | $2-4$ hours |
| ** FOL 3953 | Advanced Foreign Language Study Abroad | $3-6$ hours |
| FRE 1120 | Beginning French I | 4 hours |
| FRE 1121 | Beginning French II | 4 hours |
| FRE 2240 | Intermediate French I | 3 hours |
| FRE 2241 | Intermediate French II | 3 hours |
| GER 1120 | Beginning German I | 4 hours |
| GER 1121 | Beginning German II | 4 hours |
| GER 2200 | Intermediate German I | 3 hours |
| GER 2201 | Intermediate German II | 3 hours |
| LAT 1120 | Beginning Latin I | 4 hours |
| LAT 1121 | Beginning Latin II | 4 hours |
| SPN 1120 | Beginning Spanish I | 4 hours |
| SPN 1121 | Beginning Spanish II | 4 hours |
| SPN 1133 | Accelerated Beginning Spanish | 6 hours |
| SPN 2200 | Intermediate Spanish I | 3 hours |
| SPN 2201 | Intermediate Spanish II | 3 hours |
| **Excluding courses focused on literature or culture. |  |  |

Note: Political Science majors may not take American Sign Language courses to satisfy the language requirement.


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# College-Level Communication \& Computation Skills (Gordon Rule) 

College-Level Communications and Computation Skills (Gordon Rule) State Rule 6A-10.030, applies to students who enroll in a Florida postsecondary institution, college, or university after October 1982.

The communications component of the rule requires students to complete "six credit hours of English coursework and six credit hours of additional coursework in which the student is required to demonstrate college-level writing skills through multiple assignments." Native UNF students completing the General Education program will meet this requirement through the completion of nine credit hours in English course work, three credit hours in freshman core, and three credit hours in philosophy in which the student is required to demonstrate college-level writing skills. UNF will accept as Gordon Rule courses those designated as Gordon writing from other Florida SUS and community college institutions. Course syllabi may be required to evaluate whether a course transferred from a private and/or out-of-state institution complies with the "college-level writing skills through multiple assignments" criteria.

The computation component requires that students must complete six credit hours in mathematics course work at the level of college algebra or higher. Only one course may be selected from Elementary Statistics or Symbolic Logic.

All communications and computation skills courses must be completed with a grade of "C" or higher. Completion of the Associate in Arts degree at a state university or Florida public community college will satisfy these requirements.

A list of University of North Florida courses which meet the Gordon Rule communications and computation requirements is provided below.

## Communication Gordon Rule Courses

*These courses fulfill the English portion of the Gordon Rule requirement. All other courses fulfill the additional Gordon Rule writing requirement.

| Course Number | Course Title |
| :--- | :--- |
| AMH 3554 | (GW) Law @ Social Resp. |
| AML 3031 | (GW) Periods of Early American Literature |
| AML 3041 | (GW) Periods of Later American Literature |
| AML 3102 | (GW) American Fiction |
| AML 3154 | (GW) American Poetry |
| AML 3621 | (GW) Black American Literature |
| *CRW 2000 | (GW) Introduction to Creative Writing |
| *CRW 2100 | (GW) Introduction to Fiction Writing |

*CRW 2201
*CRW 2300
*CRW 2400
*CRW 2600
*CRW 2930
CRW 3110
CRW 3211
CRW 3310
CRW 3610
*ENC 1101
ENC 1102
ENC 1130
ENC 2127
*ENC 2210
*ENC 2441
*ENC 2442
*ENC 2443
*ENC 2450
*ENC 2451
*ENC 2460
*ENC 2461
*ENC 2462
*ENC 2463
*ENC 2930
*ENC 3250
ENC 3310
ENC 3324L
*ENG 2012
ENG 3603
ENG 4014
ENL 3112
ENL 3132
ENL 3501
ENL 3503
EUH 1000
EUH 1001
HIS 3051
*LIT 2000
LIT 2100
LIT 2110
LIT 2932
LIT 3043
LIT 3184
LIT 3193
LIT 3304
LIT 3331
LIT 3333
LIT 3930
PHI 2010
PHI 2100
PHI 2630
WOH 1012
WOH 1022
(GW) Introduction to Creative Non-Fiction
(GW) Introduction to Poetry Writing
(GW) Introduction to Playwriting
(GW) Introduction to Screenwriting
(GW) Special Topics in Creative Writing
(GW) Fiction Workshop
(GW) Creative Non-Fiction Workshop
(GW) Poetry Workshop
(GW) Screenwriting Workshop
(GW) College Writing
(GW) The informed writer
(GW) Special Topics in Writing
(GW) Elements Style
(GW) Technical Writing
(GW) Writing Topics: Fine Arts
(GW) Writing Topics: Humanities
(GW) Writing Topics: Literature
(GW) Writing Topics: Natural Science
(GW) Writing Topics: Health
(GW) Writing Topics: Business
(GW) Writing Topics: Social Science
(GW) Writing Topics: Education
(GW) Writing Topics: Engineering
(GW) Special Topics in Composition
(GW) Professional Communications
(GW) Writing Prose
(GW) Advanced Composition
(GW) The Art of Close Reading
(GW) American Film
(GW) Approach to Literature Interpretation
(GW) British Novel I
(GW) British Novel II
(GW) Periods of Early British Literature
(GW) Periods of Later British Literature
(GW) Freshman Core I
(GW) Freshman Core II
(GW) The Craft of the Historian
(GW) Introduction to Literature
(GW) Masterworks
(GW) Literature I
(GW) Literature II
(GW) Modern \& Contemporary Drama
(GW) Introduction to Irish Literature and Culture
(GW) Literature of the East
(GW) Literature of Popular American Culture
(GW) Children's Literature
(GW) Adolescent Literature
(GW) Special Topics in Literature
(GW) Introduction to Philosophy
(GW) Reasoning and Critical Thinking
(GW) Contemporary Ethical Issue
(GW) World History I
(GW) World History II

## Computation (Math) Gordon Rule Courses

Only one course may be selected from Elementary Statistics or Symbolic Logic. At least one course must have a mathematics prefix of MAA, MAC, MAD, MAS, MGF, MHF or MTG.

| MAA 4200 | G(M) Mathematical Analysis |
| :---: | :---: |
| MAA 4211 | G(M) Advanced Calculus I |
| MAA 4212 | G(M) Advanced Calculus II |
| MAA 4402 | G(M) Complex Analysis |
| MAC 1101 | $G(M)$ Intensive College Algebra |
| MAC 1105 | $G(M)$ College Algebra |
| MAC 1114 | G(M) Trigonometry |
| MAC 1147 | G(M) Precalculus |
| MAC 2233 | G(M) Calculus for Business |
| MAC 2311 | $G(M)$ Calculus I |
| MAC 2312 | $G(M)$ Calculus II |
| MAC 2313 | $G(M)$ Calculus III |
| MAC 2241 | $G(M)$ Calculus for Biology |
| MAD 3107 | $G(M)$ Discrete Mathematics |
| MAD 4401 | G(M) Numerical Analysis |
| MAP 2302 | $G(M)$ Ordinary Differential Equations |
| MAP 4231 | G(M) Operations Research |
| MAP 4341 | G(M) Elementary Partial Differential Equations |
| MAS 3105 | G(M) Linear Algebra |
| MAS 3203 | G(M) Number Theory |
| MAS 4156 | G(M) Vector Analysis |
| MAS 4301 | G(M) Abstract Algebra I |
| MGF 1106 | $G(M)$ Finite Mathematics |
| MGF 1107 | G(M) Explorations in Mathematics |
| MGF 1113 | $G(M)$ Mathematics for Teachers I |
| MGF 1114 | G(M) Mathematics for Teachers II |
| MHF 3202 | $G(M)$ Foundations of Mathematics |
| MHF 3404 | $G(M)$ History of Mathematics |
| MTG 3203 | G(M) Geometry for Middle School Teachers |
| MTG 3212 | G(M) Modern Geometry |
| MTG 4302 | G(M) Elementary Topology |
| PHI 3130 | G(M) Symbolic Logic |
| STA 2014 | G(M) Elementary Statistics for Health/Social Sciences |
| STA 2023 | G(M) Elementary Statistics for Business |
| STA 3032 | G(M) Probability and Statistics for Engineers |
| STA 3163 | G(M) Statistical Methods I |
| STA 3164 | G(M) Statistical Methods II |
| STA 4202 | $G(M)$ Design of Experiments |
| STA 4222 | G(M) Design of Sample Surveys |
| STA 4321 | $G(M)$ Probability and Statistics |
| STA 4322 | G(M) Statistical Theory |
| STA 4445 | G(M) Applied Probability Models |
| STA 4502 | G(M) Nonparametric Methods in Statistics |
| STA 4504 | G(M) Categorical Data Analysis |
| STA 4664 | $G(M)$ Statistical Quality Control |
| STA 4945 | G(M) Capstone Experience in Statistics |

## Note:

CLEP exams may not be used to satisfy Gordon Rule Writing. Only the subject exam in College Algebra or above may be used to satisfy Gordon Rule Math. Passing CLEP scores are determined by the UNF Office of Admissions. General CLEP exams will not satisfy either Gordon Rule Writing or Gordon Rule Math.


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## Placement and Retroactive Credit in French, Spanish, and Chinese

## Placement

All incoming students who have studied French and Spanish in high school must take the free online French and Spanish placement tests prior to enrolling at UNF. Based on that score, students will be advised at which course level to enroll.

All heritage or native speakers of French or Spanish (who may not have studied the language in high school) must take the on-line placement test prior to enrolling in French or Spanish courses. In order to be placed appropriately, native speakers of Spanish or French must also meet with the Chair of the Department of Languages, Literatures, and Cultures.

All Chinese students who have studied the language at the high school level or who are heritage speakers of the language must meet with the Chair of the Department of Languages, Literatures, and Cultures prior to enrollment. The chair will refer them to the Chinese instructor to ascertain the level at which they must begin their language studies.

## Retroactive Credit

Students who enroll in French, Spanish, or Chinese at the University of North Florida will be advised that they are eligible for up to six credit hours of retroactive credit as determined by placement and satisfactory completion of specific language courses.

- If a student places at the intermediate level, he or she may receive a maximum of four hours of retroactive credit for Beginning Language II pending completion of the intermediate sequence (Intermediate Language I and II) with grades of C or above in both courses.
- If a student places at the Intermediate Language II level, he or she is eligible for three hours of retroactive credit (equivalent to Intermediate Language I) pending completion of Intermediate Language II with a grade of $C$ or above.
- If a student places at the 3000-level, he or she is eligible for a maximum of six hours of retroactive credit. The student will receive three intermediate-level credit hours for completing a 3000-level Chinese, French, or Spanish course with a grade of $C$ or above, and an additional three credit hours for completing a second 3000 -level course with a grade of $C$ or above.

Students who wish to receive the retroactive credit must apply for the credits in the Department of Languages, Literatures, and Cultures after their grades are assigned and recorded in the relevant courses. The Registrar will add the retroactive credits to the student's transcript with a grade of $P$ (Passing) assigned. These credits will not be computed into the GPA, but they will count toward degree requirements as appropriate.

Students will pay a $\$ 20.00$ fee per 3-4 credit hour course for which retroactive credit has been awarded.


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## Florida Residency for Tuition Purposes

Tuition and fees at each public institution in Florida are set by the Florida Legislature with limited flexibility given to university Boards of Trustees. These fees are assessed on the basis of residency, i.e., enrolling students are classified either as "Florida" or "Non-Florida" students

In the determination of an applicant's resident status for tuition purposes, it is the policy of the University of North Florida to follow laws of the state of Florida, as well as regulations and policy guidelines established by the Florida Board of Governors. The policy on residency status for tuition purposes as adopted by the University of North Florida is subject to Florida Statute 1009.21 and the Florida Board of Governors Regulation.

The law allows U.S. citizens and lawful permanent residents to be classified as Florida residents for tuition purposes if the applicant or the dependent applicant's parent/legal guardian has been a legal resident of the state for at least 12 months preceding the first day of classes of the term for which Florida residency is sought.

A student must submit proper documentation before being classified as a Florida resident for tuition purposes. For the most current, comprehensive guidelines for residency documentation requirements and regulations, please visit the "Residency Guidelines" section at Florida Virtual Campus -FLVC.org. For information regarding the procedures by which the documents are processed at the University of North Florida, please visit our website.

To view other admissions information, please visit the All Students section of the catalog.
To view the University's current official policy, click here.


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## All Students

The University of North Florida has grown into a popular destination for many aspiring students, and for good reason. Built on a strong foundation of academic excellence, the University offers wonderful experiences for a diverse and talented student body.

The information and procedures described in this section of the catalog pertain to all applicants for admission, regardless of student type or level. Use the links to the left to learn more about the procedures and requirements for admission to the University of North Florida.


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## Academic Integrity

## The Free and Open Pursuit of Knowledge

The University of North Florida encourages the free and open pursuit of knowledge; we consider this to be a fundamental principle and strength of a democratic people. To this end, the University of North Florida expects its students, its faculty, its administrators, and its staff to uphold the highest standards of academic integrity. The University of North Florida expects all members of the University community to both honor and protect one another's individual and collective rights.

## Course Content

A course may deal with subjects, issues, or perspectives to which some might object. Such objections will not exempt a student from course requirements. The University of North Florida stands behind the right of its instructors to include material that is challenging in any number of ways. The faculty urges students to discuss any concerns they might have concerning the content of their courses with their instructors.

## Claiming One's Own Work

Each student is honor-bound to submit under his or her name or signature only his or her own work; to fully acknowledge his or her use of any information, ideas, or other matter belonging to someone else, and to properly document the source in question; and to offer for credit only that work which he or she has completed in relation to the current course.

## Violations of Academic Integrity

Under this heading, the University of North Florida Student Handbook identifies several types of violations; these include but are not limited to: cheating; fabricating and falsifying information or citations; submitting the same work for credit in more than one course; plagiarizing; providing another student with access to one's own work to submit under this person's name or signature; destroying, stealing, or making inaccessible library or other academic resource material; and helping or attempting to help another person commit an act of academic dishonesty. The University of North Florida authorizes any instructor who finds evidence of cheating, plagiarism, or other wrongful behavior that violates the University of North Florida Academic Integrity Code to take appropriate action. Possible action includes, but is not limited to, failing the student on the work in question, failing the student for the course, notifying the appropriate academic dean or Vice President for Student Affairs, and requesting additional action be taken.

The consequences of a breach of academic integrity may result in an F, which is unforgivable, regardless of withdrawal status.

To view the Student Handbook, click here.


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## Alcohol and Other Drugs

The University of North Florida expressly prohibits the following by students and employees in or on property owned and controlled by the University of North Florida or off campus when a student or employee is acting as a representative of the University:
A. Unlawful manufacture, alteration, distribution, dispensing, possession, or use of any illicit drug B. Unlawful possession or use of a prescription drug regulated under the provisions of Chapter 893, Florida Statutes (controlled substances and "designer drugs") unless dispensed and used pursuant to prescription or otherwise authorized by law. Manufacture, alteration, delivery, distribution, dispensing, and/or sale of such substances are prohibited unless authorized by law
C. Unlawful purchase, possession, distribution, and/or use of alcohol

The use of alcoholic beverages and/or use, possession, manufacture, sale, or attempted sale of any illicit drug or prescribed drug by members of the University community is at all times subject to federal, state, and county laws, ordinances, and statutes governing these substances.

The unlawful manufacture, distribution, dispensing, possession or use of an illicit drug, or prescription drug regulated under the provisions of Chapter 893, Florida Statutes, or the unlawful use or possession of alcohol is wrong, harmful, and prohibited in and on UNF owned and controlled property or as part of any of its activities. No employee or student is to report to work, class, or any University function while under the influence of alcohol or other drugs. Violation of this policy will subject the individual not only to University sanctions but also to potential criminal prosecution by the appropriate authorities.

Additionally, a violation of this policy may result in a referral for evaluation and possible treatment for a substance related disorder, or referral for prosecution consistent with local, state, and federal law.

Disciplinary action against an employee or student by the University does not preclude the possibility of criminal charges against that individual. The filing of criminal charges similarly does not preclude action by the University.

## Penalties

The penalties imposed for violating this policy range from written warnings with probationary status to expulsion from enrollment and termination of employment. The choice of sanction will depend on the individual circumstances of the case, including any extenuating circumstances. Specific penalties for faculty, administration, staff, and students can be found within the areas responsible for each constituency:

For faculty: The Office of Academic Affairs
For administrators and staff: The Office of Human Resources

## Suspension Pending Final Disposition

The University reserves the right to suspend a faculty member, administrator, staff or student between the time of the initial charges and the impending hearing. This suspension action will be subject to the applicable personnel rules and will be invoked only if in the opinion of campus administrators the continued presence of this individual poses a clear and immediate danger to himself/herself and/or other members of the University community. Under such circumstances, a formal hearing must be held within a requisite number of school/working days, determined by the areas responsible for each constituency, to lift the suspension or impose more severe sanctions.

To view the University's current official policy, click here.


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## Computer and Internet Access

All students are required to have access to a personal computer with Internet access. Every currently enrolled student has been provided with an e-mail account at no cost to the student. Email is the official method of communication for University correspondence. These Universityprovided e-mail addresses are the only officially recognized e-mail addresses for all currently enrolled students.

UNF e-mail accounts should be checked regularly.
Students who have external (non-University-provided) e-mail addresses may elect to forward e-mail sent to their University-provided e-mail address to another e-mail address of their choice; however, the responsibility for establishing and maintaining the forwarding mechanism rests with the student and delivery to non-UNF e-mail addresses cannot be guaranteed.

To view the University's current official policy, click here.


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## Custodian of Records

Different types of student records are kept by various offices at the University of North Florida as indicated below. The right to inspect and review records, in accordance with University policy and state and federal regulations, may be exercised by presenting a written request to the appropriate custodian:

- Athletes: Athletic Office
- Educational Records: University Registrar
- Financial Aid Records: Enrollment Services
- Nonacademic Counseling Records: Office of Student Affairs
- Student Disciplinary: Office of Student Affairs
- Student Health/Medical: Office of Student Health Services
- Student Placement Records: Enrollment Services
- Student Services: Office of Student Affairs



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## Rights of Students to Intellectual Property

Students who utilize University support in producing intellectual property, other than a directed work, have the right to share in any proceeds derived from the intellectual property in accordance with the distribution procedure set forth in the University's policy on patents, copyrights, trademarks, and other intellectual property. However, it is not the intent of the University to assert rights to works for which the intended purpose is to disseminate the results of academic research or scholarly study. Students who develop intellectual property utilizing entirely their own independent efforts, as defined by University policy, are not required to share with the University the intellectual property rights derived from their independent efforts.

To view the University's current official policy, click here.


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## Release of Student Information (FERPA)

Students, upon written request, may review their own academic record. This review is subject to guidelines outlined by University policy and the provisions of the Family Educational Rights and Privacy Act of 1974 (FERPA) as amended. Copies of the University's policy regarding record access are available at One Stop Student Services.

1. Education records or personally identifiable information contained in student records shall be released or open for inspection only to the student or parents of dependent students as defined in Section 152 of the Internal Revenue Code of 1954. "Personally Identifiable" means that the data or information includes the name of the student, the student's parent, or other family member, the address of the student, a personal identifier such as the student's social security number or a student number, a list of personal characteristics which would make the student's identity easily traceable, or other information which would make the student's identity traceable.
"Education records" are those records, which are maintained by the University and employees/agents of the University which contain educational information directly related to a student. "Record" includes any information or data recorded in any medium, including, but not limited to, scanned documents, handwriting, print, tapes, film, microfilm, and microfiche. "Agents" are any individuals who, pursuant to express or implied authorization, represent and act for the University.

The custodian of the records shall require the student, or parent(s) of the student when applicable, requesting access to or release of the records to present proper identification such as a valid driver's license or passport. The request must be in writing and signed by the person seeking access or release. A copy of the request for access or release shall be retained in the student's file. The custodian shall have 45 days in which to comply with the request. When the record includes information on more than one student, the custodian shall release or permit access to only that part of the record which relates to the student who is the subject of the request. Students requesting the release of personally identifiable information contained in their records to others must provide the custodian of such records with a signed, written request specifying the information to be released, the purpose(s) for such release, and the person or organization to whom such information shall be released. The custodian of the records shall retain a copy of all requests for access and releases.
2. "Student" is defined as an individual who is registered for an on- or off-campus program leading to the award of academic credit from the University. While this definition applies specifically to credit students, the University's policy is to exercise good judgment in protecting all records of individuals participating in University-sponsored programs.
3. The University may disclose identifiable information from student educational records without student consent as follows:

Officials and faculty of the University or other state of Florida school officials who have a legitimate educational interest in the information;

- Officials of other schools in which the student seeks to enroll;
- Federal, state, local, and independent agencies and representatives as authorized by federal and state law who have a legitimate educational interest in the information;
- Officials presenting a judicial order or lawfully-issued subpoena;
- Appropriate parties in a health or safety emergency;
- Parent(s) or legal guardian(s) of a dependent student as defined in Section 152 of the Internal Revenue Code of 1954, after presenting proof of student dependency;
and in accordance with the USA Patriot Act of 2001.
Additionally, because of the University's commitment to continue improvement of educational services, One Stop Student Services will furnish copies of transcripts to the institutions previously attended by the student for use in ongoing programs of research and improvement at these institutions. Grade information will also be made available for studies conducted to improve academic quality within public higher education in Florida. These policies are sanctioned under the provisions of the Family Educational Rights and Privacy Act of 1974, as amended.

4. Right to Waive Access to Letters of Recommendation: Students have the right to waive their access to letters of recommendation and other confidential statements. Such waivers are not required as a condition of admission, the receipt of financial aid, or receipt of any other benefits.

## Right to Request Copies and Copy Fees

The University reserves the right to deny a request for copies of educational records made by a student or eligible parent when there is a financial obligation to the University which has not been satisfied and when there is an unresolved disciplinary action pending against the student.

The University will charge the following fees for furnishing copies of student records and reports or any material included therein:

1. UNF transcripts: There is an $\$ 8$ charge per transcript. Transcripts from previous educational institutions or standardized test scores must be requested from that institution or testing agency. Course work from other institutions does not appear on the UNF transcript.
2. Copies of all other educational records: 15 cents per page for copying plus any administrative costs incurred for search, retrieval, and mailing.

Requests for copies of educational records should be submitted in writing to One Stop Student Services. Other student record information regarding health, law enforcement, finances, preattendance, employment, housing, disciplinary, personal non-academic counseling, and international student records should be made directly to the appropriate offices. Picture identification is required when picking up copies of information related to student records. If someone other than the student is picking up this information, written authorization from the student and picture identification are required.

## Right to Explanation and Interpretation

1. Current and former students are entitled to a response from the University to reasonable requests for explanation and interpretation of their records and to an opportunity for a hearing to challenge the contents of their educational records in order to ensure that the records are not inaccurate, misleading, or otherwise in violation of the privacy or other rights of the student, and to provide an opportunity for the correction or deletion of any such inaccurate, misleading, or otherwise inappropriate data contained, and to insert into such records a written explanation by the student regarding the content of such records. The University will attempt to settle a dispute with the student regarding the content of the student's educational records through informal meetings with the student.
2. Any challenge to a student's record that cannot be resolved in the office maintaining the record shall be processed through the student grievance procedure. Student grievance procedures may be obtained from the Office of the Vice President for Student Affairs or One Stop Student Services.
3. If, as a result of a hearing, the University decides that the information is not accurate, is
misleading, or is otherwise in violation of the privacy of other rights of the student, it shall inform the student of the right to place in the educational record of the student a statement commenting upon the information in the educational record and/or setting forth any reasons for disagreeing with the decision of the institution. (Specific authority 228.093, 240.227(1), 240.237 Florida Statute. Law implemented 228.093, 240.237 Florida Statute).

## Directory Information

In accordance with the Family Educational Rights and Privacy Act of 1974 (FERPA) as amended, the University of North Florida defines public or directory information as the following:
"Name, mailing address, telephone number, dates of attendance, admitted college/majors, degree(s) awarded, status (full or part-time), classification (freshman, sophomore, etc.), participation in officially recognized activities and sports, Honors, weight/height of athletes, and student images, including photographs, videos, or any other media containing a student's image or likeness."

Directory information, as defined by the University of North Florida, may be released at the University's discretion, without the student's written consent unless a request for non-disclosure has been received by One Stop Student Services by the end of the first scheduled week of classes as noted in the Academic Calendar. Non-disclosure shall remain in effect until the student removes the non-disclosure option from their account in myWings or gives written request to remove said nondisclosure to One Stop Student Services. Forms are available at One Stop Student Services and the UNF website.

The University will honor a student's request to not release directory information but cannot assume responsibility for contacting the student for subsequent permission to release this information. If a non-disclosure request is completed, the University will require documentation from the individual or organization requesting such information that the student has given written permission prior to the University releasing said information. Regardless of the effect on the student, the University assumes no liability for honoring a student's instructions that such information be withheld.

Students should be aware that they cannot hold the University of North Florida liable for the consequences of honoring their instructions to withhold directory information.

To view the University's current official policy, click here.


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## Right of Appeal

All members of the University community are entitled to fair and equitable procedures.

## Appeals concerning UNF policies

Any student who believes that a University policy imposes an undue hardship may petition that policy by submitting a Request for Waiver of University Policy form. Forms are available in One Stop Student Services and supporting documentation is required before a petition will be reviewed. Students will be notified via email of the results of a submitted petition. Submission of a petition does not guarantee approval.

## Appeals concerning courses

Students who wish to appeal a course grade (except for the grade of "Incomplete") must do so within 90 days of completing the course in question. Students can pick up the guidelines for grade appeals at One Stop Student Services.

## Appeals concerning civil rights

Members of the community who believe they have not been accorded rights under the Civil Rights Act of 1964 or Title IX of the Higher Education Amendments of 1972 should contact the Director of Equal Opportunity Programs.

To view the University's current official policy concerning grade appeals, click here.


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## Sexual Misconduct

The University of North Florida is committed to providing all students, faculty, staff, vendors, visitors or others, an environment where they can work, study and interact with each other in a safe and dignified learning community free from any form of sexual misconduct. This regulation provides guidance regarding conduct that constitutes sexual misconduct, reporting responsibilities regarding such conduct and information on complaint procedures to address alleged violations of this regulation.

For purposes of this regulation, "sexual misconduct" includes sexual exploitation, sexual harassment, non-consensual sexual contact, and non-consensual sexual intercourse, each as more fully defined below. Sexual misconduct violates university policy and federal civil rights law and may also be subject to criminal prosecution. The university is committed to fostering an environment that promotes prompt reporting of all types of sexual misconduct and timely and fair resolution of sexual misconduct complaints.

In determining whether alleged conduct constitutes sexual misconduct in violation of this regulation, the conduct will be evaluated from the perspective of a reasonable person in the alleged victim's position considering the totality of the circumstances, such as the nature of the alleged conduct and the context in which the alleged conduct occurred. In an academic setting, consideration will be given to free speech and academic freedom. For example, expression that is intended to facilitate discourse or debate in a classroom setting or open debate forum may be considered appropriate, but similar expression in the workplace may be unwelcome and inappropriate in the context of communications between employees. Those found to have violated this regulation will be subject to disciplinary action up to and including termination.

Any member of the university community who believes that he or she has been subjected to sexual harassment; any member of the community who believes that he or she has been subjected to retaliation related to an allegation of sexual misconduct; or any member of the community who believes that others have been subjected to sexual harassment in violation of this regulation, may seek guidance, counseling or file a complaint in accordance with this regulation by contacting:
Director, Office of Equal Opportunity and Diversity, University of North Florida, J. J. Daniel Hall, Room 1201, 1 UNF Drive, Jacksonville, Florida 32224-2645, (904) 620-2507 Voice \& TDD and (904) 620-1004 Fax or via 711 Florida Relay for persons who are deaf or hard of hearing or those with speech impairments and/or limitations.

To view the University's current official policy, click here.


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## Student Attendance Policy

Students are required to attend the first class meeting of courses for which they registered. Registered students not attending the first day of the semester may be dropped from the course(s) at the discretion of the instructor (Only some departments follow this policy, as it is optional. Please drop your course if you will not be attending). Students who are unable to attend the first class meeting due to circumstances beyond their control must notify the instructor of the course prior to the first class meeting. Students who add courses or late-register during the add/drop period will not be dropped for non-attendance by the instructor during this period.

Students are expected to attend all of their scheduled classes to satisfy all academic objectives as outlined by the instructor. Instructors may establish specific attendance requirements. These attendance requirements must be published in the course syllabus and disseminated at the first class meeting. It is the student's responsibility to give the instructor notice prior to any anticipated absence, and within a reasonable amount of time after an unanticipated absence. The instructor has the right to deal with individual cases of non-attendance and to determine the effect of absences upon grades.

In the event of absences due to participation in a University-sponsored activity, instructors must allow students the opportunity to make up work due during such absences. However, it is the student's responsibility to make prior arrangements with the instructor to hand in written materials (e.g., assignments, papers, and projects) and to reschedule any activities that would normally occur in class (e.g., quizzes, tests, presentations, and performances).

Instructors use a variety of means to determine the extent to which a student has met the objectives of a course. Students absent due to participation in University-sponsored activities can expect their course grades to be determined based on their performance on graded material and activities. There should not be any reduction in a student's final course grade simply because he/she was absent due to a University-sponsored activity.

For the purposes of this policy, a University-sponsored activity means any activity on or off campus which is initiated, aided, authorized, or supervised by the University, such as academic field/study trips, TLO activities, intercollegiate athletic events (competition and travel related to competition; does not include practice), official meetings of student government leaders, University programming, and international travel. In case of a disagreement about whether an activity constitutes a Universitysponsored activity, the Provost shall make the determination.

Students who have been dropped from a class roster for failure to pay fees or for any other reason may continue attendance until the reinstatement deadline, as published in the Academic Calendar.

Only those students who are enrolled in classes are permitted to attend class beyond the reinstatement period. Special guests may be permitted to attend specific class sessions with the permission of the instructor.

Non-attendance does not guarantee a student will be dropped from a course. The student is
fee liable for all courses for which he/she is registered unless the student initiates a drop.


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## Student Classification

Undergraduate students are classified as follows:
Year Earned Credits
Freshman: 0-29
Sophomore 30-59
Junior 60-89
Senior $\quad 90-120$ (including at least 30 upper-level credit hours)


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## University Classification

Students entering the University of North Florida as freshmen will not be classified within a department or division but will be assigned to an academic advisor in the Academic Center for Excellence. Students must declare a major after they have completed 48 credit hours.

After completion of 60 credit hours, students must be admitted to an upper-level college and must establish an official program of study. When junior-level students are admitted to UNF, they enter a department within one of its academic units: the Brooks College of Health; the Coggin College of Business; the College of Arts \& Sciences; the College of Computing, Engineering \& Construction; or the College of Education \& Human Services. Association with an academic unit effectively classifies the student, facilitates advisement and career planning, and enables the development of an appropriate program of study. This program of study may be amended to accommodate waivers and/or substitutions of courses, as well as additional courses. The programs in this catalog show the generally accepted courses necessary for completion of basic requirements for each degree program.

If your academic objectives change, please visit your advisor to apply for a change of major. If the request is approved, it will be processed promptly.

Upon recommendation of the faculty and the chair of a department, the dean may deny a student's continued registration in the department.


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## Adding/ Dropping Courses and Late Registration

Students should exercise care in registration to avoid the necessity of schedule changes after classes have begun. During a registration period through the last day of add/drop, classes may be added or dropped from a student's schedule. Adds and drops may be completed via the myWings portal or in person at One Stop Student Services. Courses officially dropped during the add/drop period will not be entered on a student's permanent record and a refund will be generated.

A final grade of " $F$ " is assigned if a student discontinues attendance in a course without officially dropping or withdrawing.

Non-attendance does not guarantee a student will be dropped from a class. Students are fee liable for all courses for which they register unless they drop the course. Students must drop themselves from all courses they do not want to take.

Students whose first registration activity for a given semester occurs during add/drop week or students who add a class during the Late Registration period will be assessed a Late Registration fee of $\$ 100$. Students are not charged the Late Registration fee for every class added; it's only assessed once for that term.

Students are not permitted to add a course after the add/drop period unless there are unusual circumstances clearly beyond the student's control. When such a case exists, the student must complete and have approved a Request for Late Registration Form (available from One Stop Student Services). A Late Registration fee of $\$ 100$ will be added to the student's account for late registration. A Late Payment fee of $\$ 100$ may also be assessed. After the first three weeks of classes, students must complete a Request for Waiver of University Policy form, supported by proper documentation, to be considered for late-adding a course

Courses scheduled to meet for the first time after add/drop ends may be dropped the next business day only in One Stop Student Services. Tuition payment is still due on the regular deadline for all classes.

Please refer to the Academic Calendar for specific registration period dates and deadlines.


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## Concurrent Enrollment

Concurrent Enrollment refers to currently registered UNF degree-seeking students who wish to earn credit at another regionally accredited post-secondary institution for transfer into a UNF degree program.

All students (upper and lower division) seeking to concurrently enroll at another institution and transfer credits back to UNF must obtain approval from their UNF academic advisors prior to enrolling elsewhere. Students planning to attend a Florida public community college, state college, or State University System institution must complete the online Transient Student form at http://www.FLVC.org prior to concurrently enrolling at the other institution. Students planning to attend a regionally-accredited private institution or a regionally-accredited out-of-state institution must submit a Concurrent Enrollment Request form, available as a paper form from their academic advisor's office. Students using the paper form must also obtain certification from One Stop Student Services prior to concurrently enrolling elsewhere.

Once a student is admitted to and enrolled at UNF, transfer credit earned as a concurrent student will not be awarded unless the credits were approved by the appropriate academic advising office.

Upon completion of the course(s) at the other institution, the student must have an official transcript sent to UNF.

Students may be eligible for financial aid for approved courses taken concurrently at another institution. For additional information, please review the information online regarding Concurrent Enrollment and Consortium Agreements.

## Limited Concurrent Enrollment Hours for Lower Division Students

Concurrent Enrollment for lower-division students (those who matriculate with fewer than 60 semester hours) is limited to seven semester hours at another regionally accredited institution, pending academic advisor approval. Students needing to satisfy the Florida Board of Governors' nine-hour summer residency requirement, who have not previously completed any concurrent enrollment, may be approved to concurrently enroll for a maximum of nine semester hours at one of the 12 State University System (SUS) of Florida institutions during one or more summer semesters. A student may be approved for seven hours of concurrent enrollment at another regionally accredited institution OR he/she may be approved for up to nine hours at an SUS institution to fulfill the summer residency requirement. A student may not be approved for both methods. Exceptions to this policy may be approved for students participating in Study Abroad opportunities and for students facing other extenuating circumstances.


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## Continuous Enrollment

The University of North Florida defines continuous enrollment as being enrolled in classes at UNF without a break of three or more consecutive semesters. Students who break continuous enrollment are subject to the program requirements published in the catalog for the academic year in which they re-initiate continuous enrollment at UNF. Additionally, a student who for each of three consecutive semesters either does not enroll or withdraws from all courses will be required by his or her academic department to convert to current program requirements. A student who breaks continuous enrollment must re-apply for admission and is subject to all admission requirements and criteria at the time of re-application.


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## Course Designations

The catalog number for all courses is the number developed by the Statewide Course Numbering System. These designations have been developed by faculty task forces to aid the transfer process for students with equated courses from public institutions within Florida.

Courses are identified with an alphabetic and numeric coding system. The alphabetic abbreviation identifies the course content and the numbers have the following meaning:

| 1000 and 2000 series | Freshman- or sophomore-level courses |
| :--- | :--- |
| 3000 and 4000 series | Junior- or senior-level courses |
| 5000 series | Beginning graduate-level courses |
| 6000 series | Graduate-level courses |
| 7000 series | Doctoral-level courses |

For a more detailed explanation of the Statewide Course Numbering System, please click here.


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## Credit Earned as a Post-Baccalaureate

A student may apply up to 10 hours of graduate course work taken at UNF as a post-baccalaureate toward their graduate program of study. Such credits will be included in the student's UNF graduate GPA. The student must receive the approval of the program director, who then will inform the Graduate School.

To view the University's official policy, click here.


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## Excelsior College and UEXCEL Exams

Credit will be granted for satisfactory scores on the Excelsior College and UEXCEL examinations. The chart below can be used as a guide to determine the type and the amount of credit. Credit earning scores and course credit awarded can be found on the Florida Statewide Course Numbering System website.

## Information is subject to change.

| Excelsior/UEXCEL | Passing Score GEN ED | Course Equivalent Hours |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Abnormal Psychology | C | Elective | CLP 1140 | 3 |
| Calculus (UEXCEL) | C | Elective | MAC 1311 | 4 |
| College Writing (UEXCEL) | C | Elective | ENG 1101 | 3 |
| Earth Science | C | Elective | ESC 1000 | 3 |
| English Composition | C | Elective | PHI 1630 | 3 |
| Ethics: Theory and Practice | C | Elective | GEY 1000 | 3 |
| Foundations of Gerontology | C | Elective | MAN 1300 | 3 |
| Human Resources Management | C | Elective | MUH 1011 | 3 |
| Introduction to Music | C | Elective | MAN 1400 | 3 |
| Labor Relations | C | Elective | DEP 2004 | 3 |
| Life Span Developmental Psychology | C | Elective | ACG 1071 | 3 |
| Managerial Accounting | C | Elective | MAR 1011 | 3 |
| Microbiology | C | Elective | DEP 1401 | 3 |
| Principles of Marketing | C | Elective | SPN 1000 | 4 |
| Psychology of Adulthood and Aging | C | Elective | OST 1335 | 3 |
| Spanish Language (UEXCEL) | Elective | WOH 1040 | 3 |  |
| Workplace Communication with Computers | C | C |  | 3 |
| World Conflicts since 1900 |  |  |  |  |



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## DANTES Equivalencies

Credit will be granted for satisfactory scores on the DANTES Equivalencies (DANTES). The chart below can be used as a guide to determine the type and the amount of credit. Credit earning scores and course credit awarded can be found on the Florida Statewide Course Numbering System website.

## Information is subject to change.

| DANTES Equivalencies | Passing Score* | Course ID | HRS | Gen ED |
| :---: | :---: | :---: | :---: | :---: |
| A History of the Vietnam War | 44 | AMH 2059 | 3 | Elective |
| Art of the Western World | 48 | ARH 2000 | 3 | Non-Applied Fine Art/Humanities |
| Astronomy | 48 | AST 2002 | 3 | Non-Lab Science |
| Business Ethics and Society | 400 | GEB 1441 | 3 | Elective |
| Business Law II | 44 | BUL 2242 | 3 | Elective |
| Business Math | 48 | QMB 1001 | 3 | Elective |
| Criminal Justice | 49 | CCJ 1000 | 3 | Elective |
| Drug \& Alcohol Abuse | 49 | No <br> Recommendtion |  | Elective |
| Environment \& Humanity | 46 | EVR 1017 | 3 | Non-Lab Science |
| Ethics in America | 46 | PHI 2630 | 3 | Philosophy/Humanities |
| Foundations of Education | 46 | EDF 1002 | 3 | Elective |
| Fundamentals of College Algebra | 47 | MAT 1033 | 3 | Elective |
| Fundamentals of Counseling | 45 | PCO 1202 | 3 | Elective |
| General Anthropology | 47 | ANT 2000 | 3 | Cultural Diversity |
| Here's to Your Health | 48 | HSC 2100 | 3 | Elective |
| Human Resources Management | 46 | MAN 1300 | 3 | Elective |
| Human/Cultural Geography | 48 | GEO 1400 | 3 | Cultural Diversity |
| Introduction to Business | 46 | GEB 1011 | 3 | Elective |
| Introduction to Computing | 45 | CGS 1060 | 3 | Elective |
| Introduction to Law Enforcement | 45 | CCJ 1100 | 3 | Elective |
| Introduction to the Modern Middle East | 47 | ASH 2044 | 3 | Humanities |
| Introduction to World Religions | 48 | REL 2300 | 3 | Cultural Diversity |


| Lifespan Developmental <br> Psychology | 46 | DEP 2004 | 3 | Social Science |
| :--- | :--- | :--- | :--- | :--- |
| Management Information <br> Systems | 46 | ISM 1000 | 3 | Elective |
| Money \& Banking | 48 | BAN 1501 |  | Elective |
| Organizational Behavior | 48 | INP 1002 | 3 | Elective |
| Personal Finance | 46 | FIN 1100 | 3 | Elective |
| Physical Geology | 46 | GLY 1000 | 3 | Non-Lab Science |
| Principles of Finance | 46 | FIN 1000 | 3 | Elective |
| Principles of Financial | 47 | ACG 1001 | 3 | Elective |
| Accounting |  | PSC 1121 | 3 | Non-Lab Science |
| Principles of Physical Science I | 47 | SPC 2600 | 3 | Elective |
| Principles of Public Speaking | 47 | STA 2014 |  | Gordon Rule Mathematics |
| Principles of Statistics | 48 | MNA 1345 | 3 | Elective |
| Principles of Supervision | 46 | EUH 1066 | 3 | Humanities |
| Rise \& Fall of the Soviet Union | 45 | HSC 1140 | 3 | Elective |
| Substance Abuse | 49 | ENC 2210 | 3 | Elective |
| Technical Writing | 46 | AMH 1056 | 3 | Humanities |
| The Civil War \& Reconstruction | 47 | No |  | Elective |
| Western Europe Since 1947 | 45 | Recommendation |  |  |

*Note: The scoring system for DANTES tests has changed to a 400 passing score for 2008 Revised Exams. Some test scores may come over in this new format depending on the test date and a score of 400 or better will be considered passing.


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## AICE Exams

Credit will be granted for satisfactory scores on the Advanced International Certificate of Education (AICE) program. The chart below can be used as a guide to determine the type and the amount of credit. Credit earning scores and course credit awarded can be found on the Florida Statewide Course Numbering System website.

## Information is subject to change.

| AICE Exam | Passing Score "A, B, C, D, E" | Credit <br> (Minimum) | GEN Ed |
| :---: | :---: | :---: | :---: |
| Accounting (AS-LEVEL) | ACG 1001 | 3 | Elective |
| Accounting (A-LEVEL) | $\begin{aligned} & \text { ACG } 1001 \\ & \text { ACG } 1000 \end{aligned}$ | 3 | Elective |
| Art \& Design (AS-LEVEL) | Discretion of institution | 3 | Elective |
| Art \& Design (A-LEVEL) | Discretion of institution | 6 | Elective |
| Biology (AS-LEVEL) | BSC 1005C | 4 | Lab Science |
| Biology (A-LEVEL) | $\begin{aligned} & \text { BSC 1010C } \\ & \text { BSC } 1005 \end{aligned}$ | $\begin{aligned} & 4 \\ & 3 \end{aligned}$ | Lab Science |
| Business Studies (AS-LEVEL) | GEB 1011 | 3 | Elective |
| Business Studies (AA-LEVEL) | GEB 1011 \& GEB 1000 | 6 | Elective |
| Chemistry (AS-LEVEL) | CHM 1020C or CHM 1025C | 4 | Lab Science |
| Chemistry (A-LEVEL) | CHM 1020C or CHM 1025C <br> CHN 2045C | 4 | Lab Science |
| Classical Studies (AS-LEVEL) | CLA 1010 | 3 | Elective |
| Computing (AS-LEVEL) | CGS 1073 | 3 | Elective |
| Computing (A-LEVEL) | $\begin{aligned} & \text { CGS } 1073 \\ & \text { CGS } 1074 \end{aligned}$ | 3 | Elective |
| Design \& Technology (AS-LEVEL) | ETI 1482C | 3 | Elective |
| Design \& Technology (AA-LEVEL) | ETI 1482C <br> ETI 1000 | 3 | Elective |
| Economics (AS-LEVEL) | ECO 1000 | 3 | Elective |
| Economics (A-LEVEL) | $\begin{aligned} & \text { ECO } 2013 \\ & \text { ECO } 2023 \end{aligned}$ | 3 | Social Science |
| English (AS-LEVEL) | ENC 1101 | 3 | English GR Writing |


| (Language or Language \& Literature) |  |  |  |
| :---: | :---: | :---: | :---: |
| English (AS-LEVEL) (Literature in English) | ENC 1101 or ENC 1102 | 3 | English GR Writing |
| English (A-LEVEL) <br> (Literature in English) | ENC 1101 <br> ENC 1102 | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ | English GR Writing |
| Environmental Management (ASLEVEL) | EVR 1001C or ISC 1051 | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ | Non-Lab Science |
| French Language (AS-LEVEL) | At least one semester of Language credit up to Intermediate Level | 3 | Elective |
| French LIterature (AS-LEVEL) | One semester of Lit Survey credit | 3 | Elective |
| French (A-LEVEL) | At least 2 semesters of Language credit at Intermediate II Level | 6 | Elective |
| Further Mathematics (A-LEVEL) | MAC 2311 MAC 2312 | 3 | Gordon Rule Mathematics |
| General Paper | IDS 1110 | 3 | Elective |
| Geography (AS-LEVEL) | GEA 1000 | 3 | Cultural Diversity/ Social Science |
| Geography (A-LEVEL) | $\begin{aligned} & \text { GEO } 2200 \\ & \text { GEO } 2400 \end{aligned}$ | 3 | Cultural Diversity/ Social Science |
| German Language (AS-LEVEL) | At least 1 semester of Language credit of Intermediate I Level | 3 | Elective |
| German Language (A-LEVEL) | At least 2 semesters of Language credit at Intermediate II Level | 6 | Elective |
| Global Perspectives I (AS-LEVEL) | ISS 1011 | 3 | Elective |
| Global Perspectives Pre-U Independent Research II (A-LEVEL) | $\begin{aligned} & \text { ISS } 1011 \\ & \text { ISS } 1012 \end{aligned}$ | 3 | Elective |
| History --The History of the USA <br> c. 1840-1968 | AMH 1042 | 3 | Social Science/ Humanities |
| History--Modern European History 1789-1939 | EUH 1031 | 3 | Core/Social Science/ Humanities |
| History--International History 1945-1991 | HIS 1206 | 3 | Elective |
| History (AS-LEVEL) | HIS 2930 | 3 | Core/Social Science/ Humanities |
| History (A-LEVEL) | HIS 2930 | 3 | Core/Social Science/ Humanities |
| Latin (AS-LEVEL) | At least 1 semester (3 SH) of Language credit up to Elementary II Level |  | Elective |
| Marine Science (AS-LEVEL) | OCE 1001 | 3 | Non Lab--Science |
| Marine Science (A-LEVEL) | $\begin{aligned} & \text { OCE } 1001 \\ & \text { OCB } 1000 \end{aligned}$ | 3 | Non Lab--Science |
| Mathematics (AS-LEVEL) | MAC 1147 or MAC 1140/1114 | 4 | Gordon Rule Mathematics |
| Mathematics (A-LEVEL) | MAC 2311 \& MAC 2233 | 3 | Gordon Rule Mathematics |
| Music (AS-LEVEL) | MUH 1001 | 3 | Non-Applied Fine Art/ Humanities |


| Music (A-LEVEL) | MUH 1001 <br> MUH 1011 or MUH 1012 | 3 | Non-Applied Fine Art/ Humanities |
| :---: | :---: | :---: | :---: |
| Physics (AS-LEVEL) | PHY 2020C | 3 | Lab Science |
| Physics (A-LEVEL) | $\begin{aligned} & \text { PHY 2053C } \\ & \text { PHY 2054C } \end{aligned}$ | 4 | Lab Science |
| Psychology (AS-LEVEL) | PSY 2012 | 3 | Social Science |
| Psychology (A-LEVEL) |  <br> PSY 1000 | 3 | Social Science |
| Sociology (AS-LEVEL) | SYG 2000 | 3 | Social Science |
| Sociology (A-LEVEL) | SYG 2000 | 3 | Social Science |
| Spanish Language (AS-LEVEL) | At least 1 semester of Language credit up to Intermediate I (3 SH) |  | Elective |
| Spanish Literature (AS-LEVEL) | 1 semester of Literature credit (3 SH) |  | Elective |
| Spanish (A-LEVEL) | At least 2 semesters of Language credit up to Intermediate II (6 SH) |  | Elective |
| Thinking Skills (AS-LEVEL) | Enter transfer side PHI 1103 <br> Note: PHI 1103 will articulate to PHI 2100 | 3 | Elective |
| Thinking Skills (A-LEVEL) | Enter transfer side PHI 1103 <br> \& PHI 1000 <br> Note: PHI 1103 will articulate to PHI 2100 | 3 | Elective |
| Travel \& Tourism (AS-LEVEL) | HFT 1000 or HFT 1700 | 3 | Elective |
| Travel \& Tourism (A-LEVEL) | HFT 1000 OR HFT 1700 \& Other Hospitality Mgt. related course | 3 | Elective |



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## Dual Enrollment

Dual Enrollment refers to high school students who seek college credit that can be used dually to complete high school graduation requirements and may be applied toward an associate or bachelor's degree.

To view more information about Dual Enrollment, click here.


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## Duplicative Credit

Students will not be allowed to earn credit for a non-repeatable course more than one time and will not be allowed to earn credit in two substantially equivalent courses.

If a student repeats a course for which he/she has already been awarded credit by UNF as transfer credit or institutional credit and the course is not designated as repeatable by UNF, the earned credits for only the last attempt will be counted toward the total hours for the baccalaureate degree program.

If a student takes a course, which has a description explicitly stating he/she cannot receive credit for both it and another course for which UNF has awarded transfer credit or institutional credit, the earned credits for only the last attempt will be counted toward the total hours for the baccalaureate degree program.

To view the University's current official policy, click here.


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## Graduate Transfer Credit Policy

The residency requirement at UNF is 24 credit hours, 18 of which must be taken at the 6000 level. No student may earn a UNF graduate degree without 24 hours of UNF graduate course credit. It is also required that students earn a majority of credits toward their degrees at UNF.

Individual programs have particular requirements concerning transferring in credits. Most graduate programs at UNF allow a student to transfer in approximately 20 percent of the overall graduate credits required for a degree (rounded up to the nearest number divisible by 3) from another regionally accredited institution, as allowable under the residency requirement and as approved on a course-by-course basis at the discretion of the appropriate graduate program director. Additional credits may be transferred in via special petition, subject to the approval of the appropriate graduate program director and the graduate dean. No student may transfer in more than 40 percent of the overall credits required for a degree.

A student who transfers in more than 20 percent of the credits required for a degree may not apply any credits earned as a transient student (hours taken at another institution while the student is matriculating at UNF) toward fulfillment of that degree's requirements without prior approval of the appropriate graduate program director and the graduate dean. Students wishing to enroll in courses at another institution for the purpose of transferring credits into their graduate program of study must complete a "Concurrent Enrollment" form and have prior approval from the appropriate graduate program director.

## Additional credit transfer conditions:

1. The student must have completed the course work subject to the time limits applicable to his or her current graduate program.
2. The student must have earned grades of 3.0 or higher in the courses.
3. The student is not entitled to apply transfer credits toward the 18 -hour minimum of 6000 -level courses required for all master's degrees.
4. The student is not entitled to transfer credit for correspondence courses, courses included in a completed degree program, or portfolio-based experiential learning that has taken place prior to admission to the current graduate program.

To view the University's official policy, click here.


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## Petitions

Students who feel they have serious extenuating circumstances may submit a petition to waive a University policy. Completing a petition does not guarantee that a particular policy will be waived since petitions are considered exceptions and are evaluated on a case-by-case basis.

Documentation of the circumstances related to the request MUST accompany the petition for the case to be considered. Petitions submitted without documentation will be denied automatically. Please review the Academic Policy \& Regulation Petition to view items that cannot be petitioned.

For petition forms and questions regarding the process, please contact One Stop Student Services or your advisor.


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## Prior to Registering

The Graduate School strongly encourages students to keep in touch with their graduate program director. On behalf of all graduate program directors, we recommend that graduate students review with their program director what graduate courses they plan on taking prior to registration.


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## Summer School Requirement

## BOG Regulation: 6.016 Summer Session Enrollment

All students entering a university in the State University System with fewer than 60 semester hours credit shall be required to earn at least nine semester hours prior to graduation by attendance at one or more summer sessions. University presidents or their designees may waive the application of this regulation in cases of unusual hardship to the individual.

Authority: Section 7(d), Art. IX, Fla. Const., History--New 6-12-75, Amended 6-25-80, 8-11-85, Formerly 6C-6.16, Amended 1-8-92, 8-19-92, 9-23-93, 11-27-95.

For the official Board of Governors regulation, click here.


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## Withdrawals

Effective Fall 2013, there is a course withdrawal limit for all degree-seeking and non-degree seeking undergraduate students. The limit is six (6) UNF course withdrawals.

- Three (3) course withdrawals at the $\mathbf{1 0 0 0} / 2000$ level
- Three (3) course withdrawals at the $\mathbf{3 0 0 0}$ level or above

Unused withdrawals are forfeited and may not be carried forward. After the withdrawal limit is reached, students will be blocked from further course withdrawals by the myWings registration system.

Any course withdrawals that took place prior to Fall 2013 do not count toward the limit. The withdrawal limitation only applies to courses taken in Fall 2013 or later.

Courses with a grade of WM, WS, or WR are excluded from the limitation policy.
Students are encouraged to meet with their advisor prior to completing a course withdrawal if there are questions about how this will affect the academic record or future coursework options.

Please note that graduate students do not have a withdrawal limit.
To view the University's current official policy, click here.
A student may withdraw from a course or from the University starting at the end of the add/drop period through the withdrawal deadline as posted on the Academic Calendar. The student may withdraw online through myWings, send a letter postmarked no later than the deadline, or complete and submit an official withdrawal request form by the deadline to One Stop Student Services. A grade of "W" will be assigned upon completion of the withdrawal request process, and no refund will be generated. If a student stops attending classes without officially withdrawing, a final grade of "F" is assigned.

Petitioning to extend the withdrawal deadline is not permitted under normal circumstances.
Extraordinary situations must be documented.
Students should exercise care when withdrawing from classes, as such actions may impact the time needed to complete their degree(s) and current or future eligibility for financial aid and/or Veterans' Affairs (VA) educational benefits. Students seeking advice regarding the academic impact of withdrawing should contact their academic advisor. Students seeking advice regarding the impact withdrawing has on financial aid and/or VA benefits should contact One Stop Student Services.

## Late Withdrawals

A student may petition for late withdrawal if there are unusual circumstances clearly beyond the student's control. A student may petition for withdrawal from a course up until the end of the term,
prior to grades posting. The dean or designee of the student's major college has final approval/disapproval authority. The course instructor does not approve or disapprove the withdrawal, but only assigns a grade of "WP" or "WF." The instructor may recommend an action or write an explanation of the applicable circumstances. This policy does not mean a student has the right to withdraw from a course after the official withdrawal deadline simply because he/she had a passing grade at the time.

To view the University's current official policy, click here.


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## Military Withdrawal Policy

Students who provide advanced notice are entitled to a leave of absence or complete withrawal to engage in active duty, training for active duty, initial active duty for training, inactive duty for training, full-time National Guard duty, or attendance at an examination to determine their fitness for these kinds of duty.

These students will be provided with a full refund of tuition and other fees and will have a grade of WS posted on the transcript for the courses that were in progress at the time of their request. Additionally, a spouse of affected military personnel is granted the same consideration. Grades of WS do not count toward the withdrawal limitation policy.

Students and/or spouses of affected military personnel called to military service may withdraw themselves online on myWings or in person at One Stop Student Services up until the deadline to withdraw from the term. To receive a full refund, the student must provide a copy of the affected military personnel's orders to One Stop Student Services for review in Records and Registration. After review, the grade of WS will be recorded for ALL courses in which the student was enrolled (unless a grade of I (Incomplete) was issued by an instructor or other arrangements have been made). Once the WS is assigned, tuition will be refunded for those courses.

To view the University's current official policy, click here.


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## Dean's List

Candidates for a baccalaureate degree who have completed 15 credit hours at UNF and have a term GPA of 3.5 or higher for at least nine hours are eligible for the Dean's List. Notification is sent by individual colleges. Dean's List designation is noted on the academic transcript for each term in which it applies.


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## Grades

After each semester, students may access their grades in the myWings portal in the Final Grades area of the Student Records menu. The date final grades will post appears on the Academic Calendar and is generally a week after the final exam period has ended for a semester.

For information regarding transcript ordering, please click here.

| Grade | Grade Points |
| :--- | :--- |
| A | 4.0 |
| A- | 3.7 |
| B+ | 3.3 |
| B | 3.0 |
| B- | 2.7 |
| C+ | 2.3 |
| C | 2.0 |
| D | 1.0 |
| F, FA, and | 0 (calculated in GPA) |
| WF |  |

NR, X, I, P, W, WP, WM, WS, and WD 0.0 (not calculated in GPA)

## X - Audit

Students must indicate at the time of registration that they wish to audit a course rather than register for credit. Any change from credit to audit or vice-versa must be made before the close of add/drop. Fees for audit classes are the same as those for credit classes and are non-refundable. Petitioning to move from audit to credit or vice-versa is not permitted under normal conditions. Extraordinary circumstances must be documented. Audited courses do not count toward financial aid.

## I-Incomplete

At the instructor's discretion, students who have not completed required work in a course by the end of the semester may be assigned a grade of "I." For an "I" to be assigned, the student must have completed a substantial portion (at least a majority) of the course with a passing grade. The " l " is not computed in the grade point average. The time limit for removing the "l" is set by the instructor of the course. This time limit may not exceed one calendar year or graduation, whichever comes first. The time limit applies whether the student is in residence or not. To extend an incomplete beyond one year, the student must petition for a waiver of University policy.

An " $l$ " will be changed to a final evaluative grade (one that is used in calculating GPAs) at the time
the student completes the required work. Students may not register for courses in which incomplete grades have been received. Any " $I$ " grade not removed by the end of the time limit will be changed to a final grade to be determined by the instructor. This grade will be used to calculate the student's GPA. If no final grade is issued, the "I" will change to an "F" and will be calculated in the GPA. Veterans and other eligible students should contact One Stop Student Services concerning the effect of incomplete or failing grades upon certification.

## NR - No Record

"NR" is assigned when grades for an entire class or portion thereof are not submitted by the processing deadline. Enrollment Services Processing will send a list of "NR" grades to the respective department chairpersons, who will be responsible for communicating with faculty members about removing the "NR" grade. The "NR" may remain on the record for up to one year but cannot remain on the student's transcript beyond graduation.

## P-Passing

A "P" indicates a passing grade for the employment experience in the Cooperative Education Program and, at the discretion of the college and departments, for thesis, dissertation, independent study, practicum, and/or internship courses. Passing grades are not calculated in the GPA.

## W - Withdrawn

A "W" grade indicates a student has withdrawn officially from a course before the established deadline.

## WP - Withdrawn Passing

A "WP" grade indicates a student has successfully petitioned to withdraw from a course after the official deadline and was making satisfactory progress at the time.

## WF - Withdrawn Failing

A "WF" grade indicates a student has successfully petitioned to withdraw from a course after the official deadline and was not making satisfactory progress at the time.

## WM - Withdrawn Medical

A "WM" grade indicates a student has successfully petitioned to withdraw from courses due to an incapacitating illness.

## WS - Withdrawn Service

A "WS" grade indicates a student has successfully withdrawn from courses due to being called for military duty during the semester.

## WD - Withdrawn Deceased

A "WD" grade indicates a student has been withdrawn from classes due to death.

## FA - Unforgivable F

An "FA" grade Indicates a student has received a Punitive or Unforgivable F due to academic misconduct. This grade cannot be forgiven through a grade or term forgiveness.

## D Grades

Courses completed with grades of " $D$ " may be applied toward upper-level graduation requirements, i.e., 60 credit hours. However, a course completed with a "D" grade normally will not be applicable toward major requirements. See college sections for further information.

To view the University's current official policy, click here.


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## Grade and Term Forgiveness

## Grade Forgiveness

Undergraduate, degree-seeking students attempting their first baccalaureate degree may improve their grade point average by repeating a course and requesting that the repeated course and its corresponding grade be the one counted in all the student's applicable Grade Point Averages calculations, as described in the Academic Average (Grade Point Average) Policy.

1. Only two such requests are available to any student during his or her undergraduate UNF career.
2. Grade forgiveness may not be used if term forgiveness has been implemented.
3. The repeated course must be the same course as taken previously and must be completed at the University of North Florida. If the course is no longer offered at the University of North Florida, or its number has been changed keeping the same content, the chair of the department or an appropriate designee of the college that houses the course is required to approve the substitution of another course.
4. Only the first recorded grade for a course will be forgiven. The most recent grade will be calculated in the GPA.
5. Grade forgiveness requests will not be processed after graduation certification.
6. This policy does not alter the permanent academic record; all attempts for a given course and all grades remain on the student's record. The earned hours associated with a forgiven course, however, are removed.
7. Although both courses and grades appear on the students permanent academic record, the grade for the forgiven course will not be calculated in any of the student's Grade Point Averages (See the Academic Average (Grade Polnt Average) policy.) The original grades will be calculated for the Latin Honors GPA.
8. Students may repeat courses without using the forgiveness policy. In this instance, both the original and the repeated grade(s) will be used in the calculation of all applicable Grade Point Averages, as stated in the Academic Average (Grade Point Average) policy. However, earned credit for only the last attempt will apply toward graduation. (Please also see Repeat Hours and Excess Hours Calculation Policies.)
9. This policy reflects UNF grade point calculations only and does not affect the grade point calculation of outside agencies or other institutions who may use all grades, including repeated and forgiven grades, in their calculations of grade point averages.

To view the University's current official policy, click here.

Undergraduate, degree-seeking students attempting their first baccalaureate degree may request term forgiveness for exactly one term at UNF.

1. A student granted term forgiveness may not exercise grade forgiveness. Term forgiveness may not be used if grade forgiveness has been implemented.
2. Requests will never be approved for the present term or for the immediately preceding term in which the student was enrolled.
3. Students must complete at least one term at UNF before applying.
4. This policy does not alter the permanent academic record; all courses attempted in the forgiven semester and related grades remain on the student's record. The earned hours associated with a forgiven term, however, are removed.
5. Although courses and grades in the forgiven term appear on the student's permanent academic record, the grade for the courses in forgiven term will not be calculated in any of the student's Grade Point Averages (See the Academic Average (Grade Point Average) Policy.) The original grades will be calculated for the Latin Honors GPA.
6. This policy reflects UNF grade point calculations only and does not affect the grade point calculation of outside agencies or other institutions who may use all grades, including repeated and forgiven grades, in their calculations of grade point averages.
7. Students must complete and submit a Request for Term Forgiveness form to One Stop Student Services before graduation.
8. Graduating students who wish to utilize term forgiveness should contact the University Registrar via One Stop Student Services to request special consideration. Forms must be submitted prior to the date posted on the academic calendar for commencement.

To view the University's current official policy, click here.


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## Graduate Academic Load

A full-time graduate course load is nine or more hours per semester (fall and spring) and six or more during the summer once the add/drop period has ended. A part-time graduate course load is fewer than nine hours.

Federal financial aid regulations specify a minimum of 12 hours for full-time status during the summer session. Students should plan their academic loads with recognition of the constraints on their time and other resources. Certain assistance programs such as financial aid, veterans administration programs, and certain scholarship programs require minimum loads for eligibility. For information on requirements for financial aid and veterans administration programs, refer to the Financial Information section of the catalog.

Students who wish to take more than 15 hours must present to the Graduate School written approval from the student's program director. For information on the number of hours students must take in order to be eligible for financial assistance programs, refer to the Financial Information section of the catalog.


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## Graduate Academic Progress

## Academic Probation

A graduate student who fails to maintain a cumulative UNF graduate GPA of at least 3.0 will be considered not in good academic standing and will be placed on academic probation. Probation shall be noted on the academic transcript for each term in which the cumulative UNF graduate GPA is below 3.0.

## Academic Suspension and Dismissal

(1) If, while a graduate student is on probation, the cumulative UNF graduate GPA does not reach 3.0 in the next academic term, the student is eligible for suspension or dismissal from the program.
(2) If, while a graduate student is on probation, he or she earns a "D" or an "F" in a graduate course in his or her program of study, the student is eligible for suspension or dismissal from the program.

The decision concerning whether the student is actually placed on academic suspension rests with the particular program's graduate program director and/or the program's graduate program committee (should the program have one).

Academic suspension is noted on the academic transcript. A graduate student may not register for courses while on academic suspension. The decision to release the student from academic suspension rests with the particular program's graduate program director and/or graduate program committee.

Decisions made by graduate program directors and/or graduate program committees may be appealed by graduate students. Such appeals are made through the normal academic appeals process as specified in the Graduate Catalog and Student Handbook.

## Program-Specific Policies

Many programs have program-specific policies further defining good academic standing and related matters. These program-specific policies, if inclusive of higher standards than those of the University, supersede University policy. Please refer to individual program requirements for more information.

## Suspension of VA Benefits upon Unsatisfactory Progress

If the graduate GPA falls below 3.0 during the term following probation status, graduate students receiving Department of Veterans Affairs education benefits will be notified of their unsatisfactory progress and will have their benefits suspended.

To view the University's official policy, click here.


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## Good Academic Standing

A graduate student who has a cumulative UNF graduate GPA of 3.0 or higher is considered to be in good academic standing.

A graduate student must have a cumulative UNF graduate GPA of 3.0 or higher to be eligible for graduation and the award of a graduate degree.

Graduate students who hold assistantships and fellowships are expected to be in good academic standing.

To view the University's official policy, click here.


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## Graduate Grade Point Average (GPA)

The graduate GPA includes all graduate credits taken once the student has been accepted as a degree-seeking graduate student. This includes all graduate credits taken as a post-baccalaureate student, even before official admission to a graduate program, when those credits are used to fulfill degree requirements.

When graduate credit hours taken as a post-baccalaureate student are not counted toward fulfillment of degree requirements, they are not counted in the construction of the graduate GPA. Undergraduate credits, no matter when they are taken, are not counted. Transfer credits are not counted.

The University Registrar determines GPA by dividing the sum of grade points earned in graded courses by the number of UNF hours attempted. In the following example, the sum of all grade points multiplied by credit hours (48.7) divided by the number of (Psychology) course credit hours (14) equals a GPA of 3.478.

| Course | Grade | Points | x Credits Hrs | Total Points |
| :--- | :--- | :--- | :--- | :--- |
| PCO 6056 | A- | 3.7 | 4 | 14.8 |
| PCO 6317C | B | 3.0 | 4 | 12.0 |
| PCO 6869 | B+ | 3.3 | 3 | 9.9 |
| PCO 6935 | A | 4.0 | 3 | 12.0 |
| Totals: |  |  | 14 | 48.7 |

The graduate GPA does not include hours with grades of $X, I, P, N R, W, W P, W M, W S$, and WD. Transfer credits are also not included. Graduate students are not eligible for grade or term forgiveness.

To view the University's official policy, click here.


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## Undergraduate Academic Load

A typical load for a full-time undergraduate student is 15 hours per semester. A minimum full-time load is 12 hours per semester. No student may exceed a load of 20 credit hours without permission of the appropriate academic dean or department chair and an approved Request for Waiver of University Policy form. Petition forms are available at One Stop Student Services.

UNF will certify full-time attendance to programs and agencies (that do not specify minimums for undergraduate student enrollment) for students if the student is enrolled in a minimum of 12 hours per semester (fall and spring) and six hours per summer $A$ and $B$ session(s) and nine hours per summer $C$ session. Enrollment verifications can be requested once the add/drop period has ended.


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## Academic Standing - Probation and Suspension

## Good Academic Standing

Undergraduate students who possess both a current semester Grade Point Average (GPA) and total institutional GPA of 2.0 or above (All Teacher Education majors need a GPA of 2.5 or above in both GPAs indicated) are considered to be in Good Academic Standing.

## Academic Probation

An undergraduate student who fails to maintain good academic standing will be placed on academic probation and referred to an academic advisor. Academic probation is a warning (Teacher Education majors must see the College of Education and Human Services Probation/Suspension section of the catalog for the College's probation policy.) Transcripts will reflect academic probations.

## Academic Suspension and Dismissal

If both the Current Term and Total Institutional GPA fall below 2.0 at the end of a semester in which a student is on Academic Probation, then the student will be eligible for suspension. (Teacher Education majors must see the College of Education and Human Services Probation/Suspension section of the catalog for the College's probation policy.)

If suspended, the student will be dropped from any course for which he/she is currently registered and denied the opportunity to re-enroll. The duration of suspension varies by college. E-mail notification is sent by the Registrar's Office to students who are placed on suspension. Written notification may additionally be sent to students from their respective college or the Academic Center for Excellence (ACE). Transcripts will reflect academic suspensions.

A suspended student who desires to be re-admitted to the same major field as when last enrolled may do so upon the written recommendation of the advisor, the department chair, and/or departmental committee designated by the Department and College in which the student was last enrolled at the time he or she was suspended. The dean may deny a student's continued registration in the department. A student who is suspended from a degree program at UNF who wishes to be readmitted into another UNF degree program must have the re-admission approved by the appropriate advisor, the department chair, or departmental committee of both programs. Re-admission procedures vary by college.

Degree-seeking UNF students (except for Teacher Education majors) who receive credit for upperlevel coursework at another institution while suspended from UNF may transfer these credits back to UNF only with the permission of the appropriate UNF advisor, department chair, or departmental committee.

To view the University's current official policy, click here.


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## Undergraduate Enrollment in Graduate Courses

While graduate-level courses are intended primarily for students admitted to a graduate program, outstanding undergraduate students may take graduate-level courses upon approval of the department chair of the student's major and the chair of the department offering the course. If applied toward a master's degree, the credits are subject to the same rules as transfer work.

Grades earned in graduate-level courses prior to achieving graduate standing are not computed in the graduate GPA.

Graduate-level courses cannot be applied toward both the baccalaureate and graduate degree.
Fifteen semester hours is considered the maximum course load for an undergraduate student taking a graduate course.

Students enrolled in graduate-level courses will pay graduate-level tuition and fees associated with those courses.


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## Undergraduate Grade Point Average (GPA)

## Current Term GPA

The current term GPA appears on the unofficial transcript after each term. The sum of quality points (grade points $x$ credits) earned within the current term is divided by the number of UNF hours attempted that term (except those hours with grades of $X, I, P, N R, W, W M, W S, W D$, and WP). The resulting quotient is the current term GPA. Example:

| Course | Grade | Grade Points | X | Credits | $=$Quality <br> Points |
| :--- | :--- | :--- | :--- | :--- | :--- |
| ENC1101 | A- | 3.7 | 3 | 11.1 |  |
| BSC1010C | C | 2.0 | 4 | 8.0 |  |
| MAC1105 | B+ | 3.3 | 3 | 9.9 |  |
| MAR3023 | F | 0.0 | 3 | 0.0 |  |
| Total |  |  | 13 | 29.0 |  |

The total of 29 grade points earned divided by 13 credits attempted equals 2.23 current term GPA.

## Upper Level GPA

The sum of all UNF upper level quality points earned is divided by the number of all UNF upper level hours attempted (except those hours with grades of X, I, P, NR, W, WM, WS, WD, and WP, and UNF hours repeated for which the grade forgiveness or term forgiveness policy was subsequently invoked). The resulting quotient is the upper level GPA.

## Cumulative GPA

The cumulative GPA appears on the unofficial transcript after each term. The sum of all UNF quality points earned as of a particular term is divided by the number of all UNF hours attempted by the conclusion of that term (except those hours with grades of X, I, P, NR, W, WM, WS, WD, and WP, and UNF hours repeated for which the grade forgiveness or term forgiveness policy was subsequently invoked). The resulting quotient is the cumulative GPA.

## Total Institutional GPA

The total institutional GPA appears on the unoffical transcript after each term. The sum of all UNF quality points earned is divided by the number of all UNF hours attempted (except those hours with grades of X, I, P, NR, W, WM, WS, WD, and WP, and UNF hours repeated for which the grade forgiveness or term forgiveness policy was subsequently invoked). The resulting quotient is the total institutional GPA.

## Total Transfer GPA

The total transfer GPA is calculated using those courses UNF considers transferable. The sum of quality points earned in transferable courses from other institutions is divided by the number of semester hours transferable from other institutions. The resulting quotient is the total transfer GPA.

## Overall GPA

The overall GPA appears on the unofficial transcript after each term. The sum of all quality points earned at UNF and in transferable courses from other institutions is divided by the number of all UNF hours attempted (except those hours with grades of X, I, P, NR, W, WM, WS, WD, and WP, and UNF hours repeated for which the grade forgiveness or term forgiveness policy was subsequently invoked) plus the number of semester hours transferable from other institutions. The resulting quotient is the overall GPA.

To view the University's current official policy, click here.


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## Commencement Ceremony

## UNF's Public Acknowledgment of your Achievement

The University would like to publicly acknowledge your educational achievement, and to that end we hope you will attend the University's commencement ceremony. Commencement is held at the end of the fall, spring, and summer C semesters. One Stop Student Services will send candidates for graduation detailed instructions for participating in the ceremony, including instructions on how to obtain tickets. Information about commencement, including date and time of ceremonies, is also available on the Commencement webpage.

The number of available tickets depends upon the number of students graduating at each ceremony. At present, a student can expect up to eight tickets. This number is subject to change, especially as the size of the UNF student body continues to increase in coordination with limiting seating in the UNF Arena. Should any additional tickets become available, they will be dispensed at the discretion of the University.

To view the University's current official policy, click here.


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## Dual Degrees and Double Majors

Students must indicate whether they are pursuing a double major or dual degrees on the application for graduation. Once a degree has been awarded, subsequent course work cannot be added to create a second degree, major, or minor; nor may any changes be made to courses or grades except due to administrator error in recording.

## Double Majors

Students pursuing a single baccalaureate degree and who apply for and satisfy the requirements of two majors within the same college of division will be awarded two diplomas and both majors will be indicated on their permanent record/transcript.

## Dual Degrees

Students pursuing two different baccalaureate degrees (e.g., BA and BS) who apply for and satisfy the requirements of both degrees will be awarded two diplomas. Students must meet the requirements for both degrees and have the approval of both colleges.

Under certain circumstances, students may be awarded a baccalaureate degree at the same time they are awarded a master's degree.

To view the University's current official policy, click here.


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## Multiple Minors

Undergraduate students (excluding those in the College of Education \& Human Services) may pursue multiple minors. Policies for multiple minors may vary by college (refer to college section). Students must meet with their advisor to officially declare their minors and ensure that selected minors will be recorded on their program of study and University transcript. Students must adhere to minor requirements specified by the college offering the minor.


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## Latin Honors Distinction

Provided at least forty-eight (48) semester hours (30 hours for RN-BSN students) of course work have been completed at UNF, undergraduate students who graduate with the following grade point averages will receive the corresponding Latin Honors distinctions:

| Latin Honor Distinctions |  |
| :---: | :---: |
| 3.50 to 3.64 | cum laude |
| 3.65 to 3.79 | magna cum laude |
| 3.80 or higher | summa cum laude |

GPA calculations for Latin Honors will be based on all credits earned at UNF.

A minimum of thirty (30) hours is required for Latin Honors in a second baccalaureate degree. Only courses taken after receipt of the first baccalaureate degree will be calculated in the Latin Honors GPA for a second baccalaureate degree.

For the purposes of Latin Honors, students graduating from accelerated BS-MS programs, where both degrees are conferred simultaneouly, will be considered as undergraduates under this policy. Transfer students must have the minimum Latin Honors GPA (3.5) prior to the term of graduation and must be taking enough credit hours during the term of graduation to bring them to the required 48 (30 for BSN) UNF hours needed to qualify for Latin Honors.

Latin Honors is not available to graduate students.

## Criteria Determination

Latin Honors are electronically calculated based on the criteria stipulated in the University catalog under which a student is meeting degree requirements. Typically, the catalog year reflects the academic year in which the student was admitted, however, this may change if the student broke continuous enrollment and is re-admitted under a different catalog.

## Exceptions

On occasion, a student may be pursuing a degree program that is being phased out or has been
drastically altered. The only alternative for the student is to switch to the degree requirements stipulated in the current catalog. Because the change of degree requirements is beyond the student's control, the student would be allowed to petition to be covered by the catalog under which he/she was last admitted. If you believe an exception should be made in your case, please contact your advisor

## Recognition of Latin Honors Distinction for Graduates

Baccalaureate candidates who will have accumulated forty-eight (48) hours (30 hours for RN-BSN students) at UNF by the end of the term of graduation and have the appropriate GPA prior to the term of graduation will be eligible to purchase a gold honor cord th the time they pick up their regalia from the UNF Bookstore. Honors candidates will be asked to stand for recognition during the ceremony and will be specially recognized in the printed Commencement Program (provided they have selected to have their names included in the program). Candidates who will have earned Latin Honors after the current term's grades are recorded will have honors posted on their diploma and transcripts (baccalaureate degree only).

To view the University's current official policy, click here.


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## Undergraduate Certificate Programs

Credit bearing, undergraduate certificate programs are comprised of related courses that constitute a coherent body of study within a discipline. These programs must be approved through the university and faculty governance processes. Furthermore, credit bearing certificate programs must establish student learning outcomes and assess the extent to which students achieve these outcomes. Additional information about the assessment of learning outcomes can be found in the Academic Learning Compact (ALC) policy.

With the approval of the sponsoring college, students can apply required coursework to both the certificate program and, if applicable, their chosen undergraduate degree program. Students do not, however, have the right to return for a retroactive certificate award. Students who have graduated from a degree program and wish to return to pursue a certificate will need to apply to the university, and the specific certificate program, and pay a new application fee. Credits awarded and used towards prior degrees cannot be applied to the undergraduate certificate.

Students are subject to the individual requirements of the undergraduate certificate program and will need to complete at least fifty percent of the required coursework in residence at the university (e.g., face-to-face, distance, or credit hours obtained while enrolled in an approved UNF study abroad program). Successful completion of the undergraduate certificate program will be noted on the student's official transcript separately from his or her degree program.

## Applying to a Certificate Program

Students who wish to pursue an undergraduate certificate program are required to apply through Enrollment Services and be accepted to the desired program in accordance with program-specific admissions criteria.

Currently enrolled UNF students are not required to pay an application fee whereas, non-UNF students will be required to pay an application fee.

1. All students applying for undergraduate level certificate programs will submit an application to Enrollment Services.
2. Enrollment Services will refer the application to the appropriate department for an admission decision.
3. Each program will develop its own admission criteria for certificate programs.
4. Acceptance to the undergraduate certificate program is dependent on student eligibility and, if required, departmental approval.

## Completion of a Certificate Program

Once the program coursework is satisfied the student may be eligible to receive a document acknowledging completion that is separate from a diploma conferral. Certificate conferral is not part of the commencement ceremony. Printing and conferring all completion documents from university certificate programs will be the sole responsibility of the Registrar and the Office of Enrollment Services Processing. All materials required to print and package the completion documents will also be housed within the Enrollment Services Processing Office.

To view the University's current official policy, click here.


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## Undergraduate Degree Completion Time Limits

Students must submit a formal graduation application by the deadline date listed in the Academic Calendar published online. Student may apply online through the myWings Student Records menu or submit a paper application to One Stop Student Services.

Work required for a degree must be completed and certification of completion must be posted in the UNF student record system prior to the college approving candidates for their degrees. For all course work completed at institutions other than UNF, official transcripts are the only acceptable certification of completion. For applicable transcripts to be posted prior to the UNF certification deadline in a given semester, they must be received by One Stop Student Services (undergraduate students) on or before the last day of UNF final examinations for that semester. Students who intend to complete course work at another institution to satisfy UNF degree requirements must obtain formal approval and complete the courses prior to the term in which they intend to graduate to ensure sufficient time to process the transcript.

Every degree-seeking student at UNF must have a program of study. Graduation requirements published in the catalog at the time the student enters UNF are those which must be satisfied.

However, an undergraduate student may graduate under the provisions of the UNF catalog which were in effect when the student began continuous enrollment at the University up to a maximum time limit of six years. This time limit policy also applies to continuously enrolled students transferring from Florida public post-secondary institutions.


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## Graduate Degree Completion Time Limits

Students must submit a formal graduation application to One Stop Student Services by the deadline date listed in the Academic Calendar published online.

Work required for a degree must be completed and certification of completion must be posted in the UNF student record system prior to the college approving the candidates for their degrees. For all course work completed at institutions other than UNF, official transcripts are the only acceptable certification of completion. For applicable transcripts to be posted prior to the UNF certification deadline in a given semester, they must be received by the Graduate School on or before the last day of UNF final examinations for that semester. Students who intend to complete course work at another institution to satisfy UNF degree requirements must obtain formal approval and complete the courses prior to the term in which they intend to graduate to ensure sufficient time to process the transcript.

Every degree-seeking student at UNF must have a signed program of study. Graduation requirements published in the catalog at the time the student enters UNF are those which must be satisfied. All coursework for a graduate or post-baccalaureate professional degree must be completed within six years of a master's-degree-seeking student being admitted to a graduate program. All course work for a doctoral degree must be completed within eight years.

To view the University's official policy, click here.

## Credit Validation for Course Work Completed more than Five Years Ago

UNF requires that a student who has taken courses at UNF or elsewhere more than five years prior to the completion of a graduate degree program or admission to candidacy for the doctoral degree must petition his or her graduate program director to validate these courses before the Graduate School will apply them toward the student's fulfillment of degree requirements. Graduate program directors have the authority to require the student to demonstrate his or her knowledge of the material covered in those courses.

Individual colleges and programs may have more restrictive policies concerning course validation. Check with your graduate program director.


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## Associate in Arts Degree Requirements

Students who wish to receive the Associate in Arts degree must:

1. Complete requirements for the degree by the deadline date listed in the Academic Calendar.
2. Fulfill the college-level communication and computation skills requirements of SBER 6A10.030.
3. Complete 60 semester hours with a 2.0 GPA including the 36 credit-hour general education program requirements outlined under the freshman/sophomore general education program.
4. Complete a minimum of 30 credit hours in residence at UNF. These hours may come from general education requirements or electives.
5. Pay all financial obligations to the University.

A student may not apply for an Associate in Arts degree during the same semester as applying for his or her bachelor's degree.

To view the University's current official policy, click here.


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## Baccalaureate Degree Requirements

Graduation from UNF is awarded upon satisfactory completion of the following minimum requirements:

1. Apply for graduation by the deadline indicated in the Academic Calendar.
2. Faculty Recommendation: Each candidate must be recommended for the degree by the appropriate college faculty.
3. Total Hours: A minimum of 120 credit hours must be completed for the baccalaureate degree.
4. Course Requirement: Each candidate must successfully complete all degree requirements as outlined in the University catalog and program of study.
5. Upper Level Hours: A minimum of 48 upper-level credit hours ( 30 for RN-BSN) must be completed. Upper-level courses are those designated as junior- or senior-level work by the issuing institution.
6. Residence Hours: Students must complete at UNF at least $25 \%$ of the overall required credit hours and half of the required major courses for the degree sought. The appropriate department may decide on a higher percentage of credit hours and/or a higher percentage of major courses completed at UNF and may define 'major courses'. All incomplete and nonreported grades must be resolved in order to graduate. Upper division undergraduate credit hours obtained while enrolled in an approved UNF study abroad program will be counted in the upper-level credit hours required to obtain a baccalaureate degree.
7. Summer Enrollment: Pursuant to the Florida Board of Governors regulation 6.016 Summer Session Enrollment, all students entering a university in the State University System with fewer than 60 semester hours shall be required to earn at least nine semester credit hours in one or more summer sessions at one of the state universities in Florida before graduation. The University president or his designee may waive the application of this regulation in cases of unusual hardship to the individual.
8. Academic Average:
a) UNF - A minimum total Institutional GPA of 2.0 on a 4.0 scale must be earned ( 2.5 for most College of Education and Human Services majors), as stated in the 'Academic Average (GPA) Policy.'

AND
b) A minimum Overall GPA of 2.0 on a 4.0 scale must be earned, ( 2.5 for most College of Education and Human Services majors), as stated in the 'Academic Average (GPA) Policy.'
9. General Education Program: The appropriate genreal education program requirements must be completed.
10. Financial Obligations: Students must pay all financial obligations to the University.
11. Foreign Language Requirement: Students must meet the provision of Florida Statute 1007.262 regarding the statewide foreign language requirement. Students must have completed two sequential foreign language courses in high school or at the postsecondary level (8 semester hours). American Sign Language I and II is an approved sequence per Florida Statute 1007.2615.

All requirements stated in this section are minimums and are not meant to limit the planning of a degree program for any student.

To view the University's current official policy, click here.


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## Second Baccalaureate Degree

Students desiring to obtain an additional baccalaureate degree must meet the requirements for the degree, earn a minimum of 30 upper-level credit hours, and have a program of study. Students earning a second baccalaureate degree may qualify for Latin Honors Distinction.

Students holding a baccalaureate degree from an accredited U.S. institution are considered to have completed general education program requirements. Students who hold degrees from foreign institutions will have their transcripts evaluated by Enrollment Services Processing for general education requirements. If the foreign transcript is not recorded in English, a translation that is a literal and complete rendition of the original document is required. All international academic records must be submitted to an approved credential evaluation agency and a course-by-course evaluation of those records must be submitted as part of the admissions application packet.

For additional information, contact One Stop Student Services.


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## Requirements for the Master's Degree

You must satisfy both the general university requirements and your program's specific requirements. If you can answer yes to the following questions, you should be eligible to graduate.

| Requirements: | Yes | Not <br> Yet |
| :--- | :--- | :--- |
| 1. Have you submitted your application to graduate to <br> One Stop Student Services in person or online by the <br> published deadline? |  |  |
| 2. In the course of your program, have you, or will you <br> have, enrolled in and completed with sufficiently high <br> grades at least 30 credit hours of course work? |  |  |
| - Have you, or will you have, maintained an |  |  |
| overall graduate GPA of 3.0 ("B") or higher? |  |  |
| - Have you, or will you have, enrolled in and <br> passed with sufficiently high grades at least 18 <br> hours at the 6000-level? |  |  |
| - Have you, or will you have, completed all 6000- <br> level course work with a GPA 3.0 or higher? |  |  |
| 3. Have you submitted your application to graduate to <br> One Stop Student Services by the published deadline? |  |  |

4. Have you completed all course work within the specified time limits?

- Have you completed all work within six years of being fully admitted to the graduate program or eight years for a doctoral program?
- If you have completed courses at UNF more than five years prior to the end of your program, have you petitioned the program director to validate and apply these courses to your program and to inform the Graduate School?
- If you have completed course work at other universities, have you made sure that the Graduate School has received an official copy of your transcripts by the posted deadline (on or before the last day of UNF's final examinations for the term in question)?
- If you intend to complete course work at another institution to satisfy UNF degree requirements, have you obtained written approval to do so prior to the term in which you intend to graduate?
- If you have or will have completed course work at another institution to satisfy UNF degree requirements, have you made sure the Graduate School has received an official copy of your transcripts by the posted deadline?

5. Have you, or will you have, successfully completed all culminating requirements, exclusive of scheduled classes - including the thesis, a non-thesis project, or a master's examination - by the posted deadline?
6. If you have written a thesis, have you satisfied all department and college requirements?
7. Have you delivered to the dean of the Graduate School:

Signed Certificate of Approval pages?

- An electronic PDF version of the thesis?
- A completed Non-Exclusive License Agreement form?

8. Has the dean of the Graduate School accepted the thesis and signed the Certificate of Approval page?
9. Have you satisfied all your financial obligations to the University?

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## Requirements for a Second Master's Degree

| Requirements: | Yes | Not <br> Yet |
| :--- | :--- | :--- |
| 1. Have you, or will you have, completed at least 24 <br> hours of new graduate course work, specific to the <br> second masters? |  |  |
| 2. Have you satisfied all other general University <br> requirements as well as program-specific <br> requirements? |  |  |
| 3. Have you submitted your application to graduate to <br> One Stop Student Services by the published deadline? |  |  |

To view the University's official policy, click here.


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## Requirements for the Ed.D. in Educational Leadership

| Requirements: | Yes | Not <br> Yet |
| :--- | :--- | :--- |
| 1. Have you satisfied all college requirements? |  |  |
| 2. Have you delivered the following materials to the <br> dean of the Graduate School by the posted deadline: |  |  |
| - Signed Certificate of Approval pages? |  |  |
| - An electronic PDF version of the dissertation? |  |  |
| - A completed Non-Exclusive License Agreement |  |  |
| form? |  |  |



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## Disciplinary Transcript Notations

Expulsion and Suspension from the University for student disciplinary reasons are sanctions outlined in the Student Conduct Code, which is published in the Student Handbook.

Expulsions will be noted permanently on a student's transcript. Transcripts will record disciplinary suspension during the period in which the suspension is in effect.

Questions should be referred to the Student Conduct Office.


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## Transcript Ordering

UNF will process only written requests for transcripts or requests submitted online through the National Student Clearinghouse (NSC). E-mail, fax, or telephone calls are not accepted. Students may complete a form available at One Stop Student Services, send a request by mail, or access the NSC through the myWings portal. For paper requests, students must include a check, money order, or receipt from the Cashier's Office for the number of transcripts ordered. Requests submitted through the NSC are paid via credit card and have a service fee of $\$ 2.25$ per destination.Transcripts are $\$ 8$ per copy.

Official transcripts will be provided in a sealed envelope directly to the student, agencies, or institutions authorized by the student to obtain said transcript. The envelope is marked "Unofficial if opened prior to delivery."

Transcript requests will not be processed for students who have outstanding financial obligations to the University.

One Stop Student Services cannot supply official copies of students' standardized test scores or transcripts from other schools they have attended. Students must request scores and transcripts directly from those agencies or institutions.


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## Naval Reserve Officers Training Corps (NROTC)

University of North Florida students may participate in the Naval Reserve Officer Training Corps (NROTC) program which is housed at Jacksonville University while earning their academic degrees at UNF. The mission of the NROTC is to prepare future leaders of the United States Navy and Marine Corps mentally, morally, and physically for commissioning in the naval services. The goal is to provide a steady supply of well-educated junior officers, ready to serve their country. The NROTC program is designed to support the student's academic major with specified university courses and naval professional courses. NROTC graduates will:

1. Understand the fundamental roles and missions of the United States Navy and the importance of seapower to our national interests;
2. Know the concepts and principles of leadership;
3. Appreciate national security requirements;
4. Gain a strong sense of personal integrity, honor, and individual responsibility; and
5. Attain an educational background which will allow advanced/continuing education later in their careers in a field of application and interest to the naval service.

There are two phases (or "courses") of NROTC, a "basic course" taken during the freshman and sophomore years, and an "advanced course" taken in the junior and senior years.

There are five programs - three NROTC Scholarship Programs and two NROTC College Programs.

## NROTC Scholarship Program

These students enter into a contract with the Secretary of the Navy in which they agree to take certain Naval Science courses and drills, attend university-taught courses, and complete three summer training periods. The Navy provides tuition, fees, textbooks, uniforms, and a $\$ 200$ per month subsistence allowance for a maximum of 40 months. Scholarship students are selected through national competition.

## NROTC Two-Year Scholarship Program

The Two-Year Scholarship Program provides tuition, books, uniforms, and a $\$ 200$ per month subsistence allowance for the junior and senior years of college. To be selected, students must be in advanced college standing and qualify for enrollment in the NROTC program's advanced courses at colleges or universities where NROTC is offered. The Chief of Naval Education and Training requires successful completion of summer training immediately before beginning the two-year program. The summer course of instruction, referred to as the Naval Science Institute (NSI), provides the Naval Science courses and drill training equivalent of NROTC basic course. Two-Year Scholarship students are selected through national competition and through a system of direct appointments.

Upon graduation scholarship midshipmen are commissioned as Ensigns in the U.S. Naval Reserve or as Second Lieutenants in the U.S. Marine Corps, and serve on active duty for a minimum of four
years.

## NROTC Four-Year Scholarship Nurse Option Program

This program provides tuition, books, uniforms, and a $\$ 200$ per month subsistence allowance for those pursuing a nursing degree. Graduates from the NROTC Nurse Option Program are commissioned in the restricted line, Nurse Corps, and serve on active duty for a minimum of four years.

The nursing program is highly structured and allows few opportunities for electives or tailoring schedules. The NROTC has a liberal policy for waiving courses that are designed for commissioned officers entering fields other than nursing. These courses include Calculus, Physics, American Military History, National Security Policy, Naval Ship Systems I and II, Navigation and Naval Operations I and II, and Computer Science. The senior summer training period is normally served at a Navy Hospital. All other NROTC requirements apply to nurse corps midshipmen.

## NROTC Four-Year College Program

These students enter into an agreement with the Secretary of the Navy in which they agree to take certain Naval Science courses, university-taught courses, drill periods, and to complete one summer training period. They enlist in the Naval Reserve upon commencement of advanced standing. In return, the Navy provides uniforms and Naval Science textbooks, and pays students \$200 a month subsistence allowance during the junior and senior years for a maximum of 20 months.

## NROTC Two-Year College Program

Students selected must be in advanced college standing and qualify for enrollment in the NROTC College Program's advanced courses at colleges or universities where NROTC is offered. The Chief of Naval Education and Training requires successful completion of summer training immediately before beginning the two-year program. The summer course of instruction, referred to as the Naval Science Institute (NSI), provides Naval Science courses and drill training equivalent to the NROTC basic course. Those enrolled in the Two-Year College Program will have the same privileges and obligations as advanced standing students in the Four-Year College Program.

Upon graduation college program students are commissioned as reserve officers in the U.S. Navy or U.S. Marine Corps and serve on active duty for three years.

College program students are eligible to compete for NROTC scholarships based on academic grades and military aptitude. Qualified individuals are nominated yearly by the Professor of Naval Science, and if selected, receive all the benefits of the scholarship program.

Students who do not qualify for enrollment in either the scholarship or college program may enroll in Naval Science courses for academic credit only. They will not be eligible for appointment as a commissioned officer.

## Eligibility Requirements

1. Must be a citizen of the United States and present official certified proof of citizenship.
2. Must have high moral standards and officer like character evidenced by appearance, scholarship, extracurricular activities, and involvement in the community. Criminal conviction is normally disqualifying.
3. Applicants for the Scholarship Program must be at least 17 years old on or before 1 September of the year of enrollment, and must be under 27 years old on 30 June of the calendar year in which commissioned. Age waivers are available, and other limitations may exist based on an applicant's special circumstances.
4. Scholarship students must meet the physical qualification standards set by the U.S. Navy's Bureau of Medicine. College Program students must meet the standards prior to entering advanced standing. A physical exam is not usually required for enrollment in the basic course, however, students must meet initial screening standards.

Must meet Department of the Navy requirements concerning prior use of narcotics and/or other related drugs.

## Summer Training Requirements

Scholarship students go on summer training for about 30 days during each of their three college summers. The first summer training includes exposure to aviation, submarine, surface, and amphibious specialties both ashore and afloat. The second summer is at-sea training aboard operational U.S. Navy ships. During the third summer candidates train aboard operational ships, nurse midshipmen train at a Navy hospital, and Marine Corps candidates train at U.S. Marine Corps Base, Quantico, Virginia. The Navy provides transportation to and from sites, subsistence and living quarters, and training pay during the summer training periods.

College program students perform one summer training session between the junior and senior years.

## Drills, Ceremonies and Inspections

All NROTC program students attend the Naval Science Laboratories for one and half hours each Thursday morning.

NROTC Jacksonville
2800 University Blvd North
Jacksonville, FL 32211-3394
904-256-7480 (phone)
904-256-7499 (fax)


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## Student Employment at UNF

The Federal College Work-Study Program (FWSP) is a limited, need-based federally funded parttime employment program, which allows eligible students to earn money to help pay for educationrelated expenses. Students must complete the Free Application for Federal Student Aid (FAFSA) each year to be considered for federal financial aid, including FWSP.

If a student has not been offered Federal College Work-Study as a part of the financial aid award, then the student: a) was not eligible, b) did not request work-study on the FAFSA and/or, c) funds were not available at the time the award was requested. Work Authorization and Payroll paperwork must be completed before students begin employment.

For the purpose of employment at the University of North Florida, and in order to be considered a student exempt from the payment of the Federal Insurance Contributions Act (FICA), student workers must be enrolled at least half-time and regularly attend classes at UNF.

Student workers participating in the Federal College Work-Study Program (FWSP) at the undergraduate or graduate level are required to be degree seeking, enrolled in a minimum of six credit hours at UNF during each term in which they participate (fall, spring, and summer) and are limited to 20 work hours per week while classes are in session.

Please note: Federal College Work-Study cannot be used to pend tuition, fees, or other charges . FWSP funds are not available to directly pay for a student's tuition, fees, housing, or meal plan charges directly. Work Study students are paid according to the UNF bi-weekly payroll schedule based on the hours earned during the pay period

Student workers, except those participating in FWSP and international students, are allowed to work up to 40 hours per week and retain FICA exemption. International students must be enrolled fulltime and are limited to 20 work hours per week during fall, spring, and summer semesters. These student workers should check with The International Center for further information by calling (904) 620-2657.

Any student not meeting the above criteria, or not showing sufficient legal documentation to qualify for the FICA exemption, shall be required to have FICA deducted from all wages earned during the period of ineligibility. If a student's FICA status changes from non-exempt to exempt, none of the FICA previously withheld shall be refunded.

Students interested in employment opportunities are encouraged to refer to the job listing maintained by the Office of Human Resources, the Career Services Office, or to seek employment independently.


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## Student Wellness Complex

The long-awaited 75,000 square foot Student Wellness Complex is scheduled to be open by fall, 2012. The multi-faceted 19.5 million dollar facility is a state-of-the-art wellness, fitness, and sports learning facility and offers UNF students, faculty, and staff unlimited access to the largest, most comprehensive wellness center in northeast Florida.

Striving to enhance our students' "out of the classroom experience", the project was funded through the efforts of Student Government who voted to create a building fee in order to fund the project. This investment will provide the students with quality indoor facilities that enable them to participate in activities to enhance their health and wellness levels and provide them with lifelong wellness, sports, and fitness learning skills for the future.

## Features and Benefits

- A 34-foot tall climbing wall greets students upon entry into the 3 -leveled building. The wall scales the sides of the 2nd (fitness level) and 3rd (track level), giving views of activity on all floors.
- Three dedicated indoor group fitness rooms and one outdoor multi-use balcony group fitness space enables UNF to provide a wide variety of classes.
- The Dottie Dorion Fitness Center, located on the 2nd level boasts almost 27,000 square feet of fitness floor space.
- The $1 / 8$ mile track on the 3rd level circumnavigates the perimeter of the building giving views of the fitness level, atrium, and fantastic outdoor views through its large windows.
- The Dr. Paul Shirley Assessment Center is located off the fitness floor and offers students immediate access to personal fitness and nutritional assessments.
- New locker rooms feature large lockers and comfortable shower and changing accommodations.

The departments for Campus Recreation and Health Promotions will be housed in the new facility. Across the street from the Student Union and adjacent to the UNF Arena and Aquatic Center, the new facility creates a complete hub for on campus student activity.

Clearly, the new facility takes Healthy Osprey's to a new level and rivals all other Florida SUS wellness and recreation facilities.


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## Army Reserve Officers Training Corps (AROTC): Army Science Program

University of North Florida Army Reserve Officer Training Corps (UNF Army ROTC) is a challenging program for student's wishing to receive a commission as an officer in the United States Army. Graduating students (called "cadets") who complete the UNF ROTC curriculum will receive a commission as a Second Lieutenant (2LT) in the United States Army, and will have the option of serving on active duty or in the United States Army Reserve or Army National Guard. UNF ROTC is a four-year program comprised of academic classes, leadership laboratory courses, and physical training. Traditional cadets typically enroll in UNF ROTC as freshmen, but there are many options for sophomores and even incoming juniors to apply and complete the program.

UNF Army ROTC courses fit into most UNF academic programs as electives and a military science minor is offered at UNF and can be awarded upon successful completion of the UNF ROTC program. Students normally take one course per semester along with their other classes. Freshmen and sophomores (MS1's and MS2's) begin with instruction in basic leadership and military skills such as physical fitness, land navigation, and first aid. These classes are considered electives just like any other at UNF, and during this "try it and see" stage, there is no commitment required to enter the US Army.

Junior cadets (MS-3's) take advanced courses in tactics, leadership, and management. At this stage, they formally commit to the United States Army and compete at a national training course in events such as land navigation, tactics and physical fitness. During their senior (MS4) year, upperclassmen cadets receive advanced instruction in leadership principles, advanced military skills, and management. They also serve as student-level supervisors of all of the other UNF ROTC cadets. Upon graduation from UNF, these outstanding men and women receive a commission as an Army Second Lieutenant.

## Financial Benefits

UNF Army ROTC offers several opportunities for scholarships with full tuition/fees (or room and board up to $\$ 10,000$ per year). As a high school senior, students may compete for a 4-year scholarship. Once on the campus as a UNF student, cadets meeting the academic and physical standards may apply for a 3-year or 2-year Army ROTC Campus Based Scholarship. Each pays full tuition, $\$ 1,200$ / year for books, plus a monthly stipend for living expenses. The monthly spending stipend is paid only during the ten months during spring and fall when school is in session. Freshmen receive $\$ 300 /$ month, sophomores $\$ 350 /$ month, juniors $\$ 450 /$ month, and seniors receive $\$ 500 /$ month. UNF Army ROTC Cadets may also choose to serve in the Army Reserve or National Guard "Simultaneous Membership Program" (SMP). As an SMP participant, the cadet is paid the rank of SGT in the Army Reserve or Florida National Guard unit and holds the duties and responsibilities of an officer.

## Obligation to the US Army

Introductory or basic courses let the student "try out" the US Army without obligation. However, once
a cadet accepts a scholarship or enters the advanced courses, they make a commitment to serve as an Army officer for 8 years upon graduation. Some cadets request full-time active duty assignments and serve initial tours of 3-4 years. Others elect to serve as part-time Army Reserve or National Guard Officers for 6-8 years while they pursue their civilian careers or advanced academic degrees.

## What else does Army ROTC offer?

As an Army ROTC cadet, students have numerous opportunities to perfect leadership and military skills, which will serve them in the military and in the civilian world. During the school year, cadets participate in one weekend field training exercise or "FTX". The FTX involves small-group leadership challenges and adventure activities. After the junior year, cadets participate in a five-week summer leadership camp (LDAC), followed by paid internship opportunities (CTLT) at Army posts in the U.S., Germany, and Korea. Many cadets also have summer opportunities for advanced military training schools such as Airborne, Air Assault, Mountain \& Northern Warfare schools. Cadet social activities include an annual Military Ball along with gatherings at local restaurants, and end of semester barbecue and award ceremony.

## How can Army ROTC benefit you?

Army ROTC will help you be successful during college and after graduation. You will gain the confidence and self-discipline necessary to succeed in college and impress employers when you graduate. As you progress, you will gain skills and experiences in leading activities, setting goals, managing people and resources, and making decisions in demanding circumstances. Additionally, you will earn opportunities for service-to-country as an officer, full-time on active duty or part-time as you pursue a civilian career.

## How do enroll into UNF ARMY ROTC?

Enrolling in UNF Army ROTC is as easy as registering for any other UNF course. You may take any of the basic courses (freshman and sophomore years) without obligation. As an undergraduate or graduate student, you may qualify for advanced courses as long as you have two years of full-time study remaining before graduation. Students who enter ROTC after their sophomore year may attend a four week paid summer training course (LTC), qualifying you to enter the junior year of Army ROTC or elect to complete United States Army Basic Training (BCT) to meet the prerequisite.

Jacksonville University (JU), Florida State College of Jacksonville (FSCJ), and Edward Waters College (EWC) students are also fully eligible to participate in UNF ROTC. Students should consult their academic advisors for enrollment information.

## Prior Service Students

If you're a veteran or are currently serving in the Army Reserve or National Guard, you may qualify to enter directly into the advanced course when you become an academic junior at the university. You may participate in ROTC without losing your Montgomery GI Bill or tuition assistance benefits.

## How to get more information on UNF ARMY ROTC

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## Printable 2010-2011 Catalog

Click on the link below to download each PDF, you would like to print.
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Admissions
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Graduate Course Descriptions
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Clinical and Applied Movement
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Nutrition and Dietetics
Public Health
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Nutrition and Dietetics

Public Health

## Coggin College of Business

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College of Arts and Sciences Undergraduate Majors
College of Arts and Sciences Undergraduate Minors
College of Computing, Engineering and Construction Undergraduate Majors
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College of Computing, Engineering and Construction Undergraduate Certificate
College of Education and Human Services Undergraduate Majors
College of Education and Human Services Undergraduate Minors


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## Dual Enrollment and Early Admission

Talented students in high school may accumulate college credits through two special, non-traditional programs: dual enrollment and early admission. Students who wish to apply to either of these programs must be recommended by appropriate high school officials. Eligibility for participation is set by written agreement between the school district and UNF.

Neither early admission nor dual enrollment students are eligible for UNF Admissions scholarships or financial aid.

Dual enrollment is a program in which an academically talented student receives permission from the high school to take one or more college courses on the UNF campus while currently enrolled in high school. Dual enrollment students are limited to taking courses required for their high school graduation. All UNF courses to be taken by the student must be approved by the appropriate high school officials.

UNF offers a limited number of dual enrollment courses. Home, public or private school students who plan to participate in dual enrollment should do so in close consultation with their high school guidance counselor to ensure the courses meet one of the following criteria:

1. Meet UNF general education requirements
2. Meet prerequisite or lower division requirements for the student's intended major
3. Substitute for elective hours in the student's intended major.

In addition, comparable high school courses should be unavailable at the applicant's secondary institution and the university must have space available in the requested class.

## Eligibility

Eligibility for participation in the Dual Enrollment program is set by written agreement between the school district and UNF. All applications must be received before the posted general admissions deadline.

## To qualify for dual enrollment, a student must:

- Submit a UNF Dual Enrollment application. (Note: Application is valid for one semester only. A new application must be submitted by the deadline every semester the student wishes to participate in Dual Enrollment.)
- Submit official and current high school transcripts reflecting a 3.0 unweighted high school GPA or higher and at least 18 high school credits.
- Submit official ACT or SAT scores taken within the last two years (minimum 24 ACT or 1100 SAT).
- Submit passing scores for the appropriate subsections of the Florida College Entry Level Placement Test, if the student is requesting an English or mathematics course
- Satisfy any course prerequisites
- Submit a Dual Enrollment Term of Agreement with signatures from high school principal, counselor, and parent, available through the high school guidance counselor or UNF's Admissions Office. (Note: Term of Agreement is valid for one semester only. A new agreement must be submitted by the deadline every semester the student wishes to participate in Dual Enrollment.)


## Registration

Dual enrollment students register for classes each semester during open registration. Before registering each term, an application, updated high school transcripts, and a signed terms of agreement form must be submitted. All course prerequisites must be satisfied before registering.

Students admitted for Dual Enrollment will receive a waiver of tuition fees for any course taken at UNF that can also be used for high school graduation.

## Home School Students

The Dual Enrollment Program at UNF is available to high school students enrolled in a home education program. The Dual Enrollment Program is in compliance with Florida Statute 232.02, which regulates home education programs. Home school students must meet the admission criteria outlined above in order to participate in dual enrollment at UNF, including the submission of official transcripts.

## Early Admission

The Early Admission Program provides opportunities for talented students to be admitted as a degree seeking college freshman prior to high school graduation. Students who wish to apply for early admission at UNF must be recommended by the appropriate high school officials. The student who is accepted for the Early Admission Program completes the first year in college and the senior year of high school simultaneously. Credit earned through this program with grades of "C" or higher may be used in degree programs at UNF. The University waives the cost of tuition and fees (excluding textbooks) for in-state residents for each course that the high school will accept for graduation.

## Eligibility

To qualify for early admission, a student must submit the following by the posted general admission deadline:

- Admissions Application
- \$30 Application fee
- Early Admission Terms of Agreement with signatures from high school principal, counselor, and parent (available through the UNF Admissions Office)
- Official high school transcripts reflecting a 3.5 weighted high school GPA or higher based on academic units
- Official ACT or SAT scores taken within the last two years (minimum 28 ACT or 1200 SAT)
- Immunization Form


## Registration

Early admission students may register for classes ONLY after participating in freshman academic advising.

## Continuation at UNF

Early admission students will not be permitted to register for the fall term following their anticipated high school graduation date unless they have submitted an official, final high school transcript to the Office of Admissions.

For additional information about Dual Enrollment and Early Admission programs, please contact your high school guidance counselor or the UNF Office of Admissions.

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## Major: Health Science <br> Concentration: Exercise Science <br> Degree: Bachelor of Science in Health

```
Prerequisites (27 credits)
    Minimum grades of B in MAC1105, CHM2045c, BSC2085c and BSC2086c are required for
    admission. Remaining prerequisites must be completed with a cumulative GPA of 3.0 or higher.
    For additional admission requirements, visit www.unf.edu/brooks.
        BSC2085C Human Anatomy and Physiology I (4 Credits)
        BSCX085/X085L, PETX322/X322L, and APKX100C are acceptable substitutes for
        BSC2085c.
BSC2086C Human Anatomy & Physiology II (4 Credits)
        BSCX086/X086L, PETX323/X323L, and APKX105/X105L are acceptable substitutes
        for BSC2086c.
MAC1105 (GM) College Algebra (3 Credits)
        MACX105, MACX140, MACX147 and MACX311 are acceptable substitutes for
        MAC1105. P (passing) grade from Credit by exam (AP, CLEP) is acceptable for the
        minimum B grade requirement. Please see your advisor to reflect the approval on
        degree evaluation.
CHEMISTRY General Chemistry I with Lab
        CHMX045/X045L and CHMX030 are acceptable substitutes for General Chemistry I
        with lab requirement.
STA2023 (GM) Elem Statistics-Business (3 Credits)
        STAX023, STAX030 and MACX147 are acceptable substitutes for STA2023.
PSY2012 Introduction to Psychology (3 Credits)
HUN2201 Basic Prin Human Nutrition (3 Credits)
        HUNX201, HUNX577 and HSCX100 are acceptable substitutes for HUN2201.
SPC2608 Fundamentals of Speech (3 Credits)
        SPCX600 and AEEX030c are acceptable substitutes for SPC2608.
```

Major Requirements (51 credits)

All Major, Elective, and Foreign Language requirements must be completed prior to internship. Any exceptions must have Program Director's approval. A minimum 2.0 UNF GPA is required prior to internship. Refer to course descriptions for prerequisite requirements.

- The Exercise Science program sequecing schedule is available online at http://www.unf.edu/brooks/ movement_science/exercise_science.aspx

HSC4612 Exercise Physio For Health Sci (3 Credits) Recommended prerequisites: BSC2085c \& BSC2086c
HSC4615L Lab Meth Ex Phys HIth Sci (3 Credits) Co-requisite: HSC4612

PET3768C Exercise Instruction (3 Credits)
PET4625 Research Sports Med (3 Credits)
PET4627 Human Injury Prevention (3 Credits)
PET4550 Physical Fitness Assessment (3 Credits)
Prerequisite: HSC4612
PET3325 Functional Anatomy/Kinesiology (3 Credits)
Prerequisites: BSC2085c \& BSC2086c
HSC3553 Pathophysiology (3 Credits)
PET3771C Business/Pract in Ex Phys (3 Credits)
PET3080 Physical Activity Epidemiology (3 Credits)
HUN4414 Nutrition Phys Act and Health (3 Credits)

## APK4120C Clinical Exercise Physiology (3 Credits)

Prerequisites: HSC4612, HSC4615L, \& PET3080
PEP4135 Princ Strength/Conditioning (3 Credits)
Prerequisites: HSC4612 \& PET3312c
APK3115C Practical Skills in S and C (3 Credits)
Prerequisites: HSC4612, PET3312c, PET3325, PET3768c
Co-requisite: PEP4135
PET4943 Pre Internship Ex Sci (3 Credits)

- Must be completed in the semester immediately preceeding PET4942 Internship.

PET4942 Internship in Exercise Science (6 Credits)

- Must be completed in the last academic semester of enrollment.

Free Electives (9 credits)
Major Electives must be completed with a grade of " C " or higher.

- If you are considering a Doctor of Physical Therapy (DPT), consider taking prerequisites required for the DPT program (http://www.unf.edu/brooks/athletic-physical/pt.html).
- Hours previously used to meet any program requirements can not be applied to this Elective area. Students must have a minimum of 120 total hours to graduate.



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## Cultural Diversity Requirement

The following courses will meet the cultural diversity requirement in the UNF General Education Program.
*AFH 3450
*AMH 3312
*AMH 3444
*AMH 3530
*AMH 3571
*AMH 3580
ANT 2000
ANT 2423
ANT 2930
*ANT 3212
*ANT 3312
*ASH 3223
*ASH 3440
*ASH 3448
*ASN 2003
*ECO 3701
ECP 2140
ENG 3613
*EUH 3580
*FIL 4848
GEB 2956
GEO 2420
IDH 2124
INR 2271
*LAH 3300
*LAH 3424
MMC 2701
PUP 2312
REL 2300
*REL 3012
*REL 3102
*SOP 3742

## South Africa

Gender in the United States
Peoples of the American West
Peopling in America
Introduction to African-American History
American Indian History
Introduction to Anthropology
Kinship and Family in a Cross-Cultural Perspective
Special Topics- Anthropology
Peoples \& Cultures of the World
North American Indians
Middle East
Japanese Civilization
Hiroshima
Introduction to Asia
Contemporary International Economics
Race and Gender in the American Economy
Topics in Disability Studies
Russian Thought \& Culture
World Cinema Across Cultures
Study Abroad in Business
Cultural Geography
Theory \& Politics - Multicultural
Mideast North Africa
Latin America
Aztec/Inca/Maya
Communicating Across Cultures
Race, Gender \& Politics
Comparative Religion
Myths \& Rituals
Religion as Culture
Psychology of Women
*SYD 3700
*SYD 3800
SYG 2012

Racial and Cultural Minorities
Gender and Society
Sex, Race and Class
*Freshman and sophomore students are restricted to enrollment in 2000-level courses.


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## Undergraduate Program Information

## Civil Engineering Program

Civil engineers design the built environment - the structures, roads, water supply systems, and much more - that surrounds us. The profession is broad and encompasses several technical areas including structures, transportation, geotechnics, water resources and environmental protection.

Employment opportunities are plentiful in design, construction, management, teaching, and research. Employers include consulting firms, industrial companies, and government agencies and non-governmental organizations. The UNF Office of Career Services provides information on companies seeking civil engineering graduates for permanent positions or current students for employment in cooperative education positions.

## Accreditation

The Civil Engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

## Program Educational Objectives

UNF Engineering graduates will:

- have sound engineering fundamentals.
- have strong team and leadership skills.
- have strong problem solving skills.
- demonstrate an ability to learn and advance.
- demonstrate effective communication skills.


## Program Outcomes

Graduates of the BSCE Program have:

- an ability to apply knowledge of mathematics, science, and engineering;
- an ability to design and conduct experiments, as well as analyze and interpret data;
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
- an ability to function on multi-disciplinary teams;
- an ability to identify, formulate, and solve engineering problems;
- an understanding of professional and ethical responsibility;
- an ability to communicate effectively;
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- a recognition of the need for, and an ability to engage in, life-long learning;
- a knowledge of contemporary issues;
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice;
- apply knowledge of mathematics through differential equations, calculus-based physics, chemistry, and at least one additional area of basic science, consistent with the program educational objectives
- apply knowledge of four technical areas appropriate to civil engineering
- conduct civil engineering experiments and analyze and interpret the resulting data
- design a system, component, or process in more than one civil engineering context
- explain basic concepts in management, business, public policy, and leadership
- explain the importance of professional licensure.


## Civil Engineering Admission Prerequisites

Formal admission to the civil engineering degree program at UNF occurs after the completion of program prerequisites. Admission is based primarily on the student's grades in both the calculus and physics sequences. A grade of $\mathrm{C}+$ or higher is required in the calculus and physics courses. Grades of $C$ or better are required in all other engineering prerequisite courses.

## Major Requirements

The Civil Engineering program requires 128 credit hours.
In addition to 50 credits of Common Engineering Prerequisites and 68 credits of program requirements, the remaining 10 credits of lower division coursework are used to satisfy the

## Electrical Engineering Program

Electrical engineers harness electrical energy for the benefit of humankind. The profession is broad and encompasses products valued by society in many technical areas from communications to electric power and energy use to those for our current "Information Age."

Employment opportunities range over product design, development, manufacturing, sales, management, teaching, and research. Employers include industrial companies, consulting firms, and government agencies and non-governmental organizations. The UNF Office of Career Services provides information on companies seeking electrical engineering graduates for permanent positions or current students for employment in cooperative education positions.

The School of Engineering offers a Bachelor of Science in Electrical Engineering (BSEE) with either computer design or system design options, and a minor in electrical engineering.

## Accreditation

The Electrical Engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

## Program Educational Objectives

UNF Engineering graduates will:

- have sound engineering fundamentals.
- have strong team and leadership skills.
- have strong problem solving skills.
- demonstrate an ability to learn and advance.
- demonstrate effective communication skills.


## Program Outcomes

Graduates of the BSEE Program have:

- an ability to apply knowledge of mathematics, science, and engineering;
- an ability to design and conduct experiments, as well as analyze and interpret data;
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
- an ability to function on multi-disciplinary teams;
- an ability to identify, formulate, and solve engineering problems;
- an understanding of professional and ethical responsibilities;
- an ability to communicate effectively;
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- a recognition of the need for, and ability to engage in, life-long learning;
- a knowledge of contemporary issues;
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice;
- an ability to apply probability and statistics in the analysis and design
- an ability to analyze and design complex electrical and electronic devices, software, and systems containing hardware and software components
- an ability to apply advanced mathematics, such as differential equations, linear algebra, complex variables, and discrete mathematics, in the analysis and design of electrical/electronic systems, components, or processes
- an ability to apply differential and integral calculus and calculus-based sciences in the


## Electrical Engineering Admission Prerequisites

Formal admission to the electrical engineering degree program at UNF occurs after the completion of program prerequisites. Admission is based primarily on the student's grades in both the calculus and physics sequences. A grade of $\mathrm{C}+$ or higher is required in the calculus and physics courses. Grades of $C$ or better are required in all other engineering prerequisite courses.

## Major Requirements

The Electrical Engineering major requires 128 credit hours.
In addition to 50 credits of Common Engineering Prerequisites and 65 credits of program requirements, the remaining 13 credits of lower division coursework are used to satisfy the remaining three credits of the English General Education requirements, COP 2220 Computer Science I, EGN 3311 Statics, Intro to Engineering I and Intro to Engineering II.
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## Mechanical Engineering Program

Mechanical engineering is concerned with energy and its transformations and the design of objects and structures that move. Mechanical engineers are responsible for conceiving, designing, manufacturing, testing, and marketing devices and systems that alter, transfer, transform and utilize the energy form that ultimately causes motion.

Employment opportunities range over product design, development, manufacturing, sales, management, teaching, and research. Employers include industrial companies, consulting firms, and government agencies and non-governmental organizations. The UNF Office of Career Services provides information on companies seeking mechanical engineering graduates for permanent positions or current students for employment in cooperative education positions.

## Accreditation

The Mechanical Engineering program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org.

## Program Educational Objectives

UNF Engineering graduates will:

- have sound engineering fundamentals.
- have strong team and leadership skills.
- have strong problem solving skills.
- demonstrate an ability to learn and advance.
- demonstrate effective communication skills.


## Program Outcomes

Graduates of the BSME Program have:

- an ability to apply knowledge of mathematics, science, and engineering;
- an ability to design and conduct experiments, as well as analyze and interpret data;
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
- an ability to function on multi-disciplinary teams;
- an ability to identify, formulate, and solve engineering problems;
- an understanding of professional and ethical responsibilities;
- an ability to communicate effectively;
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- a recognition of the need for, and ability to engage in, life-long learning;
- a knowledge of contemporary issues;
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice;
- an ability to apply principles of engineering, basic science, and mathematics (including multivariate calculus and differential equations)
- an ability to model, analyze, design, and realize physical systems, components or processes
- a preparation to work professionally in both thermal and mechanical systems areas.
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## Mechanical Engineering Admission Prerequisites

Formal admission to the mechanical engineering degree program at UNF occurs after the completion of program prerequisites. Admission is based primarily on the student's grades in both the calculus and physics sequences. A grade of $C+$ or higher is required in the calculus and physics courses. Grades of C or better are required in all other engineering prerequisite courses.

## Major Requirements

The Mechanical Engineering program requires 128 credit hours.
In addition to 50 credits of Common Engineering Prerequisites and 65 credits of program requirements, the remaining 13 credits of lower division coursework are used to satisfy the remaining three credits of the English General Education requirements, COP 2220 Computer Science I, EGN 3311 Statics, Intro to Engineering I and Intro to Engineering II.
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## Graduate Program Information

## Mission

The mission of the School of Engineering Master of Science Programs is to prepare students to function in a demanding technical environment where their advanced engineering education will allow them to solve substantial problems in their field of expertise. Through our commitment to engineering application and research and encouraging students to participate in such activities we will provide opportunities for expanded content knowledge and development of critical thinking skills inside and outside of classroom settings. Students graduating with an M.S. in Civil, Electrical, or Mechanical Engineering will receive the education that allows them to pursue a doctoral degree.

## Learning Outcomes

## Content/Discipline Specific Knowledge

- Upon program completion, students will:
- be able to apply advanced engineering techniques to identify and solve technical problems.


## Knowledge of the Literature of the Discipline

- Upon program completion, students will:
- be able to conduct literature review on a topic relevant to the area of study and to condense such review into a cohesive essay.
- Upon program completion, students will:
- be able to form conclusions and recommendations of results obtained through advanced engineering analyses, modeling, and/or experimentation.


## Demonstration of intermediate to advanced level Professional Skills

- Upon program completion, students will:
- be able to communicate technical data, analyses, and conclusions to a technical audience.


## Outcomes Assessment

The learning outcomes listed above involve depth of knowledge within a specific area of the student's chosen engineering discipline, critical thinking ability, and communications skills. These outcomes are achieved by the successful completion of a cohesive program. Students choose to either complete a thesis (thesis option) or take additional courses approved by the program (nonthesis option). The master's thesis is an original work that adds to the understanding of an engineering problem. It requires the deep knowledge and critical thinking skills developed in the program of study to advance engineering knowledge or solve an engineering problem. The successful completion of a thesis requires well-developed writing and oral communications skills. This capstone experience in conjunction with successfully completed course work measures the outcomes enumerated above for the students choosing the thesis option. Students choosing the non-thesis option will complete additional course work in place of the thesis to further deepen their understanding of the engineering discipline. Successfully completed course work measures the outcomes enumerated above.

## Graduate Admission

## Special Notes about the program:

Applicants must have earned a baccalaureate degree in Civil, Electrical, or Mechanical Engineering from an ABET-accredited program or its demonstrable equivalent to be admitted into the Civil, Electrical, or Mechanical programs, respectively.

## University requirements:

1. A baccalaureate degree from a regionally accredited U.S. institution or its equivalent from a foreign institution with a GPA of 3.0 or higher in all work attempted in the last 60 credit hours of undergraduate study.

## Additional program requirements:

1. Official transcripts from all attended institutions
2. GRE scores

- Prior to July 1, 2011: 380 verbal, 630 quantitative score
- After July 1, 2011: 145 verbal, 150 quantitative

3. Three letters of recommendations

- At least one letter must come from a professor at the applicant's undergraduate institution

TOEFL (Test of English as a Foreign Language) minimum requirements are as follows for applicants from non-English speaking countries:

- 550 paper-based test, or
- 213 computer-based test, or
- 80 internet-based test
program capacity or academic discretion. Likewise, students may be considered for admission as an exception if stated admissions criteria are not met.

For complete details on graduate admission, refer to the UNF Graduate School's webpages for:

- Civil Engineering
- Electrical Engineering
- Mechanical Engineering


## General Requirements

MS Engineering Requirements: ( 30 credit hours)
The Engineering master's degree consists of a minimum of 30.0 credit hours.
Students select from one of two degree options: (1) thesis or (2) non-thesis.
**All programs of study must be approved by the School of Engineering Graduate Program Director prior to the end of the second semester of graduate study.**

UNF Conditions for the degree:
For more details on the below and additional conditions, please refer to the UNF Graduate School's webpage: http://www.unf.edu/graduateschool/.

1. A GPA of 3.0 must be maintained. If the GPA falls below 3.0, probation will result.
2. At least 18.0 hours of coursework at the 6000 -level must be applied toward the degree.
3. All coursework for a graduate or post-baccalaureate professional degree must be completed within six years of a master's degree-seeking student being admitted to a graduate program. All exceptions must be approved by the student's Graduate Program Director and the Dean of the Graduate School.

## School of Engineering Conditions for the degree:

1. All coursework must be completed with a grade of 'C' or better.
2. A GPA of 3.0 must be maintained. If the GPA falls below 3.0 , academic probation will result.
3. A No more than 6.0 hours of transfer coursework can be applied to the degree, with the following exception:
A student may transfer up to 12 credit hours from online graduate courses taken within the Florida State University System, provided that the total of all transferred courses does not exceed 12 credit hours.
4. A student may not receive 5000 -level credit for a cross-listed $4000 / 5000$-level course previously completed at the 4000-level. Exceptions to this rule may be considered with documented evidence of significant and appropriate differences in content between the courses.

## Student Graduate Advisor and Graduate Committee

Each graduate thesis student will need a graduate advisor. This advisor should be chosen based on the student's area of interest and the faculty member's area of expertise. The program of study should list the graduate advisor no later than by the end of the second semester of graduate study. Before a graduate advisor is chosen, the School of Engineering graduate program director will serve as the graduate advisor. The graduate advisor must be a member of the Graduate Faculty and a tenure-track or tenured professor in the appropriate engineering program. The graduate advisor and student will choose a supervisory committee that will be made up of two tenure-track or tenured UNF engineering professors in the student's chosen discipline and members of the Graduate Faculty, and one outside member who must be a tenure-track or tenured professor at UNF or other regionally accredited academic institution. Additional members may be added from industry or affiliated faculty in the School of Engineering, if approved by the graduate advisor. The graduate advisor will serve as chair of the committee. The graduate advisor also approves the selection of the thesis.

Each graduate non-thesis student is advised to have a graduate advisor in the student's field of study. The School of Engineering Graduate Program Director will serve as the advisor for those students who have not yet selected a Graduate Advisor in their field of study.

## Thesis Option

The master's thesis is an original work that adds to the understanding of an engineering problem. The supervisory committee approves the thesis topic. Completion of a thesis is an intense experience and most students will find that much of their academic effort for at least two semesters will focus on its completion. The thesis is presented at an oral defense that includes the supervisory committee and others from the university community. The supervisory committee determines if the defense was successful and the thesis is acceptable.
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## Master of Science in Civil Engineering (MSCE)

The program of study consists of 30 credit hours. All programs of study must be approved by the graduate program director before the end of the second semester of graduate study. Programs of study may be modified with the approval of the graduate program director. All programs of study must contain at least 18 credits of 6000 -level courses (including thesis credits, if applicable).
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## Master of Science in Electrical Engineering (MSEE)

The program of study consists of 30 credit hours. While there are no formal tracks or concentrations in the MSEE program, the program of study generally focuses on communications, computer, or controls and signal processing. All programs of study must be approved by the graduate program director before the end of the second semester of graduate study. Programs of study may be modified with the approval of the graduate program director. All programs of study must contain at least 18 credit hours of 6000 -level courses (including thesis credits, if applicable).
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## Master of Science in Mechanical Engineering (MSME)

The program of study consists of 30 credits. While there are no formal tracks or concentrations in the MSME program, the program of study generally focuses on the machine sciences or thermofluids areas of mechanical engineering. All programs of study must be approved by the graduate program director before the end of the second semester of graduate study. Programs of study may be modified with the approval of the graduate program director. All programs of study must contain at least 18 credits of 6000-level courses (including thesis credits, if applicable).


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- Values
- Program Goals
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- Admission
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- Internship
- Construction Industry
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## Science and Engineering Building (Building 50)

Construction Management, Room 2400
Phone: (904) 620-2683
Fax: (904) 620-2573
Web address: www.unf.edu/ccec/construction/

## Mission

The mission of the Department of Construction Management is to educate and develop construction professionals with a global perspective through a rigorous, relevant, and accredited degree program offered by faculty devoted to excellence in teaching, scholarly activities, service projects, community involvement and ethical standards. Students will experience an active working relationship with local industry and develop a global perspective through cooperative efforts and exchange programs with international universities and colleges in the framework of a culture of ethics, which are vital in the development of successful construction professionals and provides distinct characteristics for our graduates' pursuit of career development and professional opportunities.

## Values

1. We believe that excellence in teaching, research, community service projects, and an active working relationship with our industry is essential to the development of successful construction professionals.
2. We believe that cultural awareness and a global perspective, achieved through study abroad is critical to the complete education of construction professionals.
3. We believe that effective construction education: a. Provides opportunities for transformational learning activities, such as internships, service learning, and robust engagement with our industry. b. Emphasizes career development and placement opportunities.c. Requires interaction between faculty, students, and industry inside and outside the classroom.

College Overview
Contact Information
Academic Advising
UNDERGRADUATE

Academic Policies
Accreditation
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## GRADUATE

Graduate University Policies

Degrees / Majors
Course Descriptions
Graduate Academic Learning Compacts

OTHER COLLEGE LINKS

Distance Learning
Student Groups and Organizations

1. The Department will develop a cooperative agreement with international universities serving our Construction Management graduates, and maintain a high quality Bachelor of Science program in Building Construction that will enable graduates to achieve their maximum potential in the building construction field.
2. The Department will broaden our graduates' horizons through local community based learning service projects and through international study abroad classes.
3. The Department will focus its resources on the continuing development of a construction management program of the highest quality in keeping with the needs of our dynamic industry.
4. The Department will offer degree programs that have relevance to the needs of the community in areas such as life-long learning, ethics, and professional development.
5. The Department will maintain an active presence through its partnerships in the northeast Florida community and surrounding region.
6. The Department will recruit and retain exceptional faculty and staff to ensure quality academic programs.
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## Program Educational Objectives

The Construction Management program produces graduates who:

- have the ability to understand and solve construction problems and think and reason logically to make sound economic decisions
- have the ability to communicate clearly and concisely, both orally and in writing
- know and uphold ethical standards of the industry
- are prepared for successful entry into the construction industry

The program consists of management-oriented technical curricula built on a balanced program of studies drawn from building construction, computer concepts, management, and general education requirements.

A graduate of this program can expect to find employment in the residential, commercial, heavy civil, or industrial construction industry. Typical employment positions include estimator, assistant project manager, assistant superintendent, field engineer, project manager or construction company manager.
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## Accreditation

The Construction Management program is accredited by the American Council for Construction Education through July, 2014.

## Admission

Minimum requirements for admission into the Construction Management Program include:

1. Admission to the University of North Florida
2. Completion of the minimum general education requirements from a State of Florida two-year community college or four-year university;
3. A minimum of 63 credit hours of college course work with an overall GPA of 2.0 or better;
4. Completion of all program prerequisites with a grade of "C" or better in each course.
```
Students will be admitted before all prerequisites have been completed. However, students must complete all lower-level prerequisites before any upper-level coursework may be attempted. [Go to top]
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The Construction Management Department provides individualized academic advisement to all its students. Students interested in the Construction Management major are required to meet with an academic advisor to:

1. Evaluate the student's course work to determine whether prerequisites for the major have been met and
2. Plan a program of study for the student to follow.

## Students are encouraged to make an advising appointment as early as possible to develop their program of study. This will enable them to progress in an efficient manner toward the completion of a degree.

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## Internship

All Construction Management students are strongly encouraged to take a one-semester internship. Students may elect to take an additional construction concentration track class to replace the internship requirement if necessary. In like manner, students may elect to complete a second internshipto replace one of the construction elective class requirements.

## Construction Industry

The Construction Management (CM) academic program is supported by various construction companies including:

APAC, Archer Western Contractors,Ltd., Ash Properties, Auld \& White Contractors, LLC, Barnard Construction, Barton Malow, Batson Cook, BE\&K, Brasfield and Gorrie, Danis Corporation, Elkins Constructors, Haskell, Hensel Phelps, Hubbard, Kiewit, Miller Electric, RJ Griffin, Sauer, Stellar, Superior, Whiting-Turner.

## Sponsored CM Scholarships

- Elkins Constructors, Inc.
- The Haskell Company
- Stellar
- American Society of Highway Engineers
- American Concrete Institute
- Miller Electric Company
- Retail Contractors Association
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## Graduation Requirements

The following are minimum requirements for the Bachelor of Science degree:

1. A minimum of 120 credit hours for the four-year program, which includes general education requirements plus the prerequisite and required courses;
2. Completion of the prerequisite and core requirements listed below with a grade of " $C$ " or better in each course;
3. Satisfactory completion of the general education program, prerequisites; and
4. At least 30 upper-level credit hours in residence at UNF.

## Students taking classes at other institutions in their graduation term may delay their

 graduation due to transcript timing issues.Effective January 1, 2009 all students prior to graduation must:

1. Sit for an approved construction exam e.g., AIC, Florida Contractor Exam. This will be coordinated through Capstone class BCN 4709.
2. Complete an exit survey.
3. Apply for graduation before deadline.

See website for graduation application deadlines
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[^5]:    All degree course work must be completed satisfactorily before enrolling into Internship. Fall internship applications are due the 4th Friday of the previous spring term. Spring internships are due the 4th Friday of the previous fall term.

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[^7]:    Prerequisite: Admission to the Nurse Anesthetist Program. This course covers pharmacology of drugs affecting the autonomic nervous system as well as anesthetic agents. Administration and doses of the adjunctive drugs are included.

