

University of Memphis

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# Catalog Home

This catalog is made available electronically by the University of Memphis. Requirements in this catalog are valid for students whose initial enrollment occurs Fall 2017-Summer 2018. This Catalog is valid through Summer 2024.

## Online Catalog Features

1. The UofM online catalog offers a unique feature called **My Portfolio**.
2. **My Portfolio** allows you to record and track your favorite programs, courses, and other areas of the catalog that interest you.
3. The catalog is searchable using keywords for the categories: program, courses, other catalog content or entire catalog.
4. Each course and program page is printable.

## My Portfolio

1. The **My Portfolio** link is located in the left navigation menu of the catalog.
2. To create your portfolio account, click on the **My Portfolio** link and follow the directions.
3. To access your portfolio account at any time, click on the **My Portfolio** link
4. There are "**Add to Portfolio**" links located throughout the online catalog for your convenience. These links allow you to add program descriptions, requirements, and courses to your portfolio for future reference.
5. Please consult an advisor to ensure that you are storing information within your portfolio that is relevant to your catalog year.

## About

## Statement of Mission

The University of Memphis is a learner-centered metropolitan research university providing high quality educational experiences while pursuing new knowledge through research, artistic expression, and interdisciplinary and engaged scholarship.

## Values

The University of Memphis, as an engaged learning community, celebrates:

- The pursuit of excellence in teaching and research as the highest measures of successful achievement.
- Interdisciplinary collaboration, artistic expression, and research as vehicles for leveraging our resources, solving problems, and multiplying our accomplishments.
- The transfer and dissemination of knowledge with community stakeholders for the intellectual, economic, and social advancement of our community.
- Innovation and creativity in everything we do.
- Respect for diversity and individual worth.
- Integrity and transparency in all our actions.
- Responsible stewardship and conservation of resources.
- Stewardship of wisdom, knowledge, and information created by our predecessors.
- Leadership and involvement in the economic, social, and professional growth of Memphis, the state of Tennessee, and the nation.

The University reserves the right to cancel or alter any part of this Catalog without notice (subject to the following): The course offerings and requirements of the University of Memphis are continually under examination and revision. This Catalog presents the offerings and requirements in effect at the time of publication, but is no guarantee that they will not be changed or revoked. The specific courses or activities constituting the degree requirements for any programs are subject to state contractual terms and does not constitute a contract between the student and the UofM.

The University of Memphis reserves the right to make changes as required in course offerings, curricula, academic policies and other rules and regulations affecting students to be effective whenever determined by the institution. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions. Any fees, charges or costs, and all academic regulations set forth in this Catalog are subject to change at any time, and all courses, programs, and activities described in this Catalog are subject to cancellation or termination by the UofM at any time.

The University of Memphis provides the opportunity for students to increase their knowledge by providing programs of instruction in the various disciplines and programs through faculty who, in the opinion of the institution, are trained and qualified for teaching at the college level. However, the acquisition of knowledge by any student is contingent upon the student's desire and ability to learn and the application of appropriate study techniques to any course or program. Thus, the University must necessarily limit representation of student preparedness in any field of study to the competency demonstrated at that specific point in time at which appropriate academic measurements were taken to certify course or program completion. (TBR 2:04:00:01)

The University of Memphis offers equal educational opportunity to all persons without regard to race, religion, sex, creed, color, national origin or disability. The University does not discriminate on these bases in recruitment and admission of students or in the operation of its programs and activities, as specified by federal laws and regulations. The designated coordinators for University compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 are the Vice President for Student Affairs and the Equal Opportunity Compliance Officer. Information in this document will be provided in alternate format upon request.

The University of Memphis is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097, telephone number 404.679.4501) to award bachelor's, first professional, master's, educational specialist, doctoral degrees, and graduate certificates.

The University of Memphis is an Equal Opportunity/Affirmative Action University. It is committed to education of a non-racially identifiable student body

## General Description

From the opening of its doors in 1912 as a normal school for training teachers to its present status as one of Tennessee's two comprehensive universities, the University of Memphis has been thrust forward by the growth of Memphis and the Mid-South. A town oriented to a rural economy and culture in 1900 grew into a large urban and commercial center mid-century, and the city's public institution of higher learning experienced comparable growth.

The metropolitan and regional requirements for more highly trained university graduates have, of necessity, caused the University to expand all its offerings in arts and sciences, business, the fine arts, education, engineering and technology, law, and several special professional fields. Degrees range from the baccalaureate through the doctorate. Approximately 80 percent of the full-time faculty have earned the highest possible degree in their fields. The University strives to optimize its resources in its quest for excellence through teaching, research and service.

With an enrollment of over 20,000, the University of Memphis is committed to developing programs of the highest caliber, for only through such a commitment will it be a standard of quality in higher education for the citizens of our service area. As the comprehensive university of the State University and Community College System of Tennessee, the University of Memphis is striving to increase the ratio of doctoral programs it offers, which will also require an increased emphasis on research and scholarship activity. The University is committed to serving a diverse student body of all races, sexes and nationalities. Our students are expected, upon graduation, to be able to compete effectively with their counterparts from any other respected university in the nation.

## History

The roots of the University of Memphis date back to September 12, 1912, with the establishment and beginning of classes at West Tennessee State Normal School, which provided for the training of primary and secondary education teachers. However, the seeds for the normal school's creation were sown three years earlier, in 1909, when the Tennessee General Assembly passed a General Education law calling for establishment and maintenance of three normal schools, one school located in each of the three grand divisions of the state.

The eastern edge of Memphis became the site for West Tennessee State Normal School, which in 1929 became West Tennessee State Teachers College. In 1941, the college expanded its liberal arts curriculum, and the name was changed to Memphis State College--an institution serving three to four thousand students. The undergraduate program was reorganized into three schools and a graduate school was added in 1951.

Memphis State achieved university status in 1957, and on July 1, 1994, the name was officially changed to the University of Memphis.

## Organization

The schools and colleges that make up the University are the Graduate School, the Cecil C. Humphreys School of Law, the University College, the Loewenberg School of Nursing, the School of Communication Sciences and Disorders, School of Public Health, and five colleges offering graduate and undergraduate programs: the College of Arts and Sciences, the Fogelman College of Business and Economics, the College of Communication and Fine Arts, the College of Education, Health and Human Sciences, and the Herff College of Engineering. The institution also offers a University Honors Program for highly motivated students seeking exceptional and challenging programs of study in a variety of disciplines. The colleges, departments, and the undergraduate degree programs they offer are described in more detail in the Colleges and Degree Programs section of this Catalog.

## The Memphis Community

[Memphis](#), with a metropolitan area population of just over one million, is one of the South's largest and most attractive cities. As a primary medical, educational, communication, distribution and transportation center, Memphis offers a rich and full range of research opportunities and cultural experiences. The city, known worldwide for its musical heritage, has many fine restaurants, museums, and theaters, as well as one of the nation's largest urban park systems. Annual events include the St. Jude Liberty Bowl Football Classic, the Memphis in May International Festival, the Federal Express St. Jude Golf Classic, the Great River Carnival and the Mid-South Fair. The medical complex in Memphis is the South's largest and one of the nation's foremost centers of medical research. A public transportation system provides easy travel between the university and other parts of the city.

Built on bluffs overlooking the Mississippi River, Memphis is devoted to preserving its history while vigorously building its future. Clusters of stately old homes dot the city; some are still inhabited, others preserve the past as museums, some have been restored and recast into commercial establishments; all are home to images from a long-ago time.

The University's modern and beautifully landscaped campus is centrally located in an attractive residential area of Memphis, with shopping, recreation and entertainment centers nearby. In addition to the main campus facilities, the University has research and athletic training facilities and married student housing on the South Campus, as well as teaching sites throughout West Tennessee.

## Academic Program Accreditation

The University of Memphis is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award bachelor's, first professional, master's, educational specialist's, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404.679.4500 for questions about the accreditation of the University of Memphis. The various colleges, schools and departments and/or the individual programs are accredited by the following appropriate accrediting agencies:

- Accrediting Council on Education in Journalism and Mass Communication
- Association to Advance Collegiate Schools of Business International
- American Bar Association
- American Chemical Society
- American College of Sport Medicine
- American Dietetic Association
- American Psychological Association
- American Speech-Language-Hearing Association
- Commission on Accreditation of Healthcare Management Education
- Commission on Collegiate Nursing Education
- Computing Accreditation Commission
- Council for Accreditation of Counseling and Related Education Programs
- Council on Rehabilitation Education
- Council for Interior Design Accreditation
- Council on Social Work Education
- Engineering Accreditation Commission of ABET, Inc.
- National Architectural Accrediting Board

- National Association for Sport and Physical Education
- National Association of Schools of Art and Design
- National Association of Schools of Music
- National Association of Schools of Public Affairs and Administration
- National Association of Schools of Theatre
- National Council for Accreditation of Teacher Education
- National Strength and Conditioning Association
- North American Society for Sports Management
- Planning Accreditation Board
- Sport Management Program Review Council
- Technology Accreditation Commission of ABET, Inc.

## Facilities, Research, and Services

### Academic Common Market

Participation in the Academic Common Market allows qualified students from southern states to pay in-state tuition while pursuing certain degree programs at the University of Memphis. This arrangement is available only for students whose home states do not offer the designated program. The state in which the student resides determines which of the programs offered by the University of Memphis it will make available to its students.

The Academic Common Market is sponsored by the Southern Regional Education Board (SREB). Participating states are Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia (Florida and Texas grant access for graduate level programs only). Current SREB common market guidelines and requirements may be found on the web at [http://www.sreb.org/page/1304/academic\\_common\\_market.html](http://www.sreb.org/page/1304/academic_common_market.html)

Students may request through their home state coordinators that additional programs be made accessible. A list of the state coordinators with their addresses and telephone numbers may be obtained from the Academic Common Market web site [http://www.sreb.org/page/1304/academic\\_common\\_market.html](http://www.sreb.org/page/1304/academic_common_market.html)

In addition to certification requirements which the student's state of residence may specify, the following pertain: (1) Students must be fully admitted to a degree program that has been approved as an Academic Common Market program (nondegree students are ineligible); (2) students must obtain a letter certifying residency term of entry and approval for the particular University of Memphis program from their state's Academic Common Market coordinator.

NOTE: After enrollment, students remain eligible for in-state tuition only so long as they are continuously enrolled-consecutive fall and spring terms-in the same major for which they were originally certified. If students change major, they must process a Change of Major through their advisor and notify the Office of Admissions to change the Academic Common Market residency code on their records.

**Failure to process the Change of Major and to notify the Office of Admissions may subject the student to out-of-state fees for all subsequent terms of enrollment in classes for a major other than the one for which the student received ACM certification.**

Missing a fall or spring term of enrollment or a change of major requires that the student be recertified through the ACM coordinator in the student's state of residence.

### Library Facilities

The University of Memphis Libraries include the Ned R. McWherter Library and five branch libraries: Audiology and Speech Language Pathology, Chemistry, Earth Sciences, Mathematics, and Music, which are contiguous to the appropriate university departments.

The McWherter Library offers many services through its Reference Department, including access to both electronic and print resources and instruction in use of all resources in the University Libraries. The Periodicals Department also offers assistance in accessing electronic resources, especially electronic full-text journals. The Government Publications Department is the Regional Federal Documents Depository for the State of Tennessee Documents. The Special Collections Departments' largest collection, consisting of unique and rare manuscripts, cartographic, photographic, and printed materials, including the Mississippi Valley Collection, reflects the history and culture of the Mississippi River valley.

The University of Memphis Libraries maintains agreements with other local institutions for shared use of library collections by students, faculty, and staff. These institutions include Rhodes College, LeMoyné-Owen College, Mid-America Baptist Theological Seminary,

Memphis Theological Seminary, Southwest Tennessee Community College, the University of Mississippi, Christian Brothers University and Mid-South Community College.

The [University of Memphis Libraries](#) provides access for all students and faculty to the electronic resources provided by the Libraries, including the Libraries' catalog of its collections. Access to the website is available to all Internet users, whether at home, at an off-campus site, or at a workstation in the McWherter Library and its branch libraries.

## Information Systems

The University of Memphis has long recognized that information technology plays a central role in teaching, learning, and research. Under the leadership of the Chief Information Officer (CIO), Information Technology Services (ITS) is responsible for implementing, provisioning, and ensuring access to technologies.

A variety of technologies are used to support teaching and learning including smart classrooms and computer labs, simulation technologies, online learning technologies, and research computing facilities. Campus technology facilities can be located by visiting <http://umtech.memphis.edu> and clicking the "Find Technology" link.

Access to campus technologies are enabled and enhanced by the University's core infrastructure technologies including enterprise networks, servers, and applications. The University maintains high-bandwidth and reliable commodity internet and telecommunication services for the entire campus community. Access to the network is provided through wired and wireless connections. High-capacity and reliable network and telecommunication services are a critical component of the University's ability to provide effective support for students, faculty, and staff.

The University also recognizes the importance of high-performance computing (HPC) resources for research and education. Since 2006 the University has maintained HPC facilities on campus and refreshes the equipment on a three-year cycle. The HPC cluster supports teaching and learning by providing resources necessary for faculty and students to conduct research in computationally intensive areas.

In addition to teaching and learning technologies, ITS is also responsible for supporting the University's administrative systems, mobile application, and email services.

The ITS Helpdesk is the central point of contact for all technical support requests. The helpdesk can be reached at 901.678.8888 or <http://helpdesk.memphis.edu>.

## Benjamin Hooks Institute for Social Change

The Institute pursues a broad programmatic agenda of research and outreach that builds upon Dr. Hooks' lifetime of work to achieve a more just society. The Hooks Institute is committed to advancing the goals of the American Civil Rights Movement, and making Memphis a national center for the study of the Civil Rights Movement and its legacy.

## Bureau of Business and Economic Research

The Bureau of Business and Economic Research is the organized research and public service unit of the Fogelman College of Business and Economics. The programs of the bureau include public service to government agencies (state and local) and the business community, continuing education, and applied general research.

## Center of Applied Psychological Research

The Center for Applied Psychological Research supports research on problems concerning health, mental health, education, schools, crime, the environment, and children and their families. The Center also supports basic scientific research in cognitive psychology, biopsychology, social psychology, developmental psychology, and research design and statistics.

## Center for Earthquake Research and Information

The Center for Earthquake Research and Information was established in 1977 by the Tennessee State Legislature to provide the citizens of Tennessee, governmental agencies, and the news media such services as the following: (1) accurate, immediate reports and background information on the occurrence of regional earthquakes; (2) scientific research related to the causes and consequences of local earthquakes and to the possibility of earthquake prediction; (3) studies related to the desirability of earthquake resistant construction; (4) advice to the populace, business, government, and insurance groups on the methods, means, and feasibility of reducing earthquake damage. It operates as a research organization of the University of Memphis. It supports some undergraduate student research in seismology and geophysics and civil engineering and cooperates with the Department of Geological Sciences in offering an undergraduate degree concentration in geophysics.

## **Center for Research in Educational Policy**

The Center for Research in Educational Policy is funded by the State of Tennessee as one of five Centers of Excellence located at the University of Memphis. CREP's mission is to implement a research agenda associated with educational policies and practices in the pre K-12 public schools of Tennessee and the nation and to provide a knowledge base for use by educational practitioners and policymakers. Research outcomes are intended to not only describe the complexities of educational phenomena, but also offer recommendations for action.

Since 1989, the Center has served as a mechanism for mobilizing community and university resources to address educational problems and to meet the University's commitment to primary and secondary schools. The Center's research agenda is developed through analysis of persistent or emerging issues in schools and their communities, changes occurring in teacher education programs, and recommendations from educational authorities. In the past decade, CREP has gained national recognition for its contribution to discussions of issues such as reform of teacher education, educational equity, educational technology, school reform and restructuring, urban and multicultural education, interventions for at-risk students, and using formative evaluation methods for school improvement decision-making.

## **Center for Health Services Research**

The Center for Health Services Research is housed in the Division of Health Administration. The Center emphasizes collaborative, multi-disciplinary research focusing on issues in health care management, leadership, financing, economics, and administration. The Center's goal is to serve as a strong partner and resource for health care organizations, both public and private, in the Mid-South region.

## **Center for Manpower Studies**

The Center for Manpower Studies, located in the Fogelman College of Business and Economics, conducts research on employment and training-related topics and provides technical assistance to federal, state, and local agencies. It also offers a variety of training programs for human resource development agencies throughout the southeast.

## **Edward J. Meeman Biological Station**

The Edward J. Meeman Biological Station was established in 1967 to encourage and foster scientific pursuits in natural history, ecology, and environmental biology. Located about 23 miles northeast of the main campus and adjacent to Meeman-Shelby Forest State Park in northwestern Shelby County, the 623-acre station (with laboratory, classroom, and small conference facilities) provides students and faculty from the University of Memphis, as well as visiting investigators, with a unique site for research, teaching, and service activities. The station is an integral part of the Department of Biology.

## **Ecological Research Center**

The Ecological Research Center (ERC) of the Department of Biology is organized to conduct and coordinate research, teaching, and service activities in ecology and related areas. Major areas of research include: fish culture, water quality, wildlife biology, endangered and threatened species, systematics, and physiological responses of organisms to the environment. The teaching program of the ERC provides a training program for students interested in pursuing careers in various professional fields and affords an opportunity for students to participate in activities involving contemporary environmental problems. Public service activities are primarily directed

toward promoting environmental awareness and providing information and consultation services to those concerned with environmental problems.

## **The Marcus W. Orr Center for the Humanities**

The Center for the Humanities was founded in 1987 and renamed in 1991 in memory of Dr. Marcus W. Orr, Professor of History. Its purpose is to support teacher and course development, independent and collaborative research, and public programs that will foster an understanding of the importance of the humanities and establish a sense of intellectual community among humanities faculty at the university. The center sponsors visiting scholars, course development grants, lectures, and a Humanities Fellows Program that supports faculty scholarship.

## **Center for Research on Women**

Founded in 1982, the Center for Research on Women (CROW), located in the College of Arts and Sciences is nationally recognized for its pioneering work on race, class, and gender. CROW's mission is to conduct, promote and disseminate scholarship on women and social inequality. Its approach to research, theory and programming emphasizes the structural relationships among race, class, gender and sexual identity, particularly in the U.S. South and among women of color. CROW-affiliated faculty span the University. They are currently engaged in action-oriented, community-based research on women in Memphis and the U.S. South; historically grounded research that makes visible global processes affecting the persistence of inequalities in the U.S. South; and the development of feminist theories and methods. CROW offers postdoctoral fellowships to scholars studying race and gender in the U.S. South, and provides graduate assistantships to students enrolled in the M.A. program in sociology.

## **Center for Urban Research and Extension**

The Center for Urban Research and Extension provides technical assistance, research and other services for neighborhood improvement in three Memphis Enterprise Neighborhoods. The Center supports the City of Memphis' Enterprise Community program, and collaborates with neighborhood residents as they embark upon various efforts in revitalizing their neighborhood. Chucalissa Indian Village and Museum (C. H. Nash Museum)

This partly reconstructed prehistoric Indian village on its original site and the museum are operated by the Department of Anthropology as an educational and research facility. The indoor and outdoor exhibits are designed to reconstruct prehistoric Indian life in the Mid-South. Students are trained in the techniques of excavation, restoration and museum operations. The courses taught are listed in the Department of Anthropology offerings. Chucalissa is located 17 miles from the main campus.

## **Integrated Microscopy Center**

The Integrated Microscopy Center provides facilities and expertise in the field of light, confocal and electron microscopy. Users of the center include researchers and graduate students in the biological and physical sciences.

## **The Institute of Egyptian Art and Archaeology**

The Institute, founded in 1984 and designated a Tennessee Center of Excellence in 1985, is a component of the Art Department at the University of Memphis. The Institute is dedicated to the study of the art and culture of ancient Egypt through teaching, research, exhibition, and excavation. It is staffed by egyptologists and art historians associated with the department's art history program. Its research library consists of more than 6000 egyptological books and periodicals including rare and out-of-print volumes. The Art Museum at the University of Memphis houses the Institute's growing collection of Egyptian antiquities, the largest in the Mid-South. The Institute also sponsors an epigraphic project at The Great Hypostyle Hall of Karnak Temple in Luxor, Egypt, and the excavation of the tomb of Pharaoh Amenmesse in the Valley of the Kings.

## **Institute for Intelligent Systems**



The Institute is designed to bring together research and training in the broad areas of cognitive science, complex dynamical systems, artificial intelligence, and massively parallel computing (neural computing). Current research includes basic research supported by grants from funding agencies and applied research supported by industrial/governmental contracts. Ideas and techniques for research are gathered from the disciplines of cognitive psychology, computer science, philosophy of mind, neuroscience, linguistics, and mathematics. Training should include graduate courses, thesis and dissertation research, and industrial training in the form of workshops, seminars, and employee research participation.

## Regional Economic Development Center (REDC)

The Regional Economic Development Center represents the University in its outreach function in the field of economic development planning. In providing technical and management assistance to the public and private sectors, the Center also serves as a laboratory for interdisciplinary research and service by faculty and graduate students in solving problems of urban and regional development. The Center's professional planning staff have academic appointments and teach courses in City and Regional Planning. REDC is an outreach unit of the School of Urban Affairs and Public Policy.

## Speech and Hearing Center

Located at 807 Jefferson Avenue in the medical center of Memphis, this facility became affiliated with the University in 1967. An additional site is located on the South Campus in building #44. Both locations serve children and adults with communication disorders. Students at the university are seen at no charge, while faculty and staff are seen for 50% of normal charges. The University administers and operates the center in cooperation with the Board of Directors of the Memphis Speech and Hearing Center, Inc.

## Other Research

Units In addition to the units described above, the University of Memphis also recognizes a wide array of other research- oriented units:

- Anthropological Research Center
- Barbara K. Lipman Early Childhood School and Research Institute
- Bureau of Sport and Leisure Commerce
- Center of Community Health (joint with UT Memphis)
- Center for River Studies
- Computational Research of Material Institute
- Exercise and Sport Science Laboratories
- Federal Express Center for Cycle Time Research
- Groundwater Institute
- Highwater Recording Company
- Institute for Egyptian Art and Archaeology
- Institute for Gambling Education and Research
- Institute for Governmental Studies and Research
- National Science Foundation Industry/University Cooperative Research Center for Bio-Surfaces Site
- Neuropsychology Research Laboratory
- Oral History Research Office
- Religious News Association Archives
- Robert Wang Center for International Business
- Southern Music Archive
- Transportation Studies Institute
- W.H. Feinstone Center for Genomic Research

## Recognized Centers and Chairs of Excellence

The University of Memphis has been designated by the Tennessee Higher Education Commission as a location for centers and chairs of excellence. The units listed below receive special funding by the State in recognition of their status.

## Centers of Excellence

- Center for Applied Psychological Research
- Center for Earthquake Research and Information
- Center for Research Initiatives and Strategies for the Communicatively Impaired
- Center for Research in Educational Policy
- Center of Excellence in Egyptian Art and Archaeology

## Chairs of Excellence

- Accounting (2)
- Art History
- Audiology & Speech Language Pathology
- Biomedical Engineering (2)
- Combinatoric Mathematics
- Economics and Managerial Journalism
- English
- Finance
- Free Enterprise Management
- International Business (2)
- International Economics
- Journalism
- Judaic Studies
- Law
- Management Information Systems
- Molecular Biology
- Nursing
- Philosophy
- Psychology
- Real Estate
- Sales
- Urban Education

## Academic Personnel Services

The Office of Academic Personnel Services conducts the University of Memphis' program for student evaluation of instruction. The Student Evaluation of Teaching Effectiveness (SETE) uses a comprehensive approach for collecting, analyzing, and reporting student reactions to certain aspects of classroom instruction. All teaching faculty are required to participate in the student evaluation program. SETE is not to be administered during the week of final exams. Faculty receive the completed forms and a computer generated summary at the beginning of the following semester. These documents, which are an important part of the dossier prepared for tenure and promotion, also provide useful information to individual faculty members for course development and/or improvement of instruction.

## International Students Office in the Center for International Programs and Services

The Office of International Students advises international students regarding immigration, health, housing, social, personal, and financial concerns. Besides advising individual students, the office advises the International Students Council. The council represents six national student associations: the African Student Association, the Chinese Student Association, the Indian Student Association, the Korean Student Association, the Malaysian Student Association, and the Muslim Student Association. The office also organizes a four-day orientation for new students each semester as well as social and cultural events that encourage international students' involvement in the campus community and help ease their transition into the American way of life. International Night, the biggest event of the year, provides an opportunity for the international students to share their traditional food and entertainment with the campus and the Memphis community.

## Psychological Services Center

The Psychological Services Center, located on the first floor of the Psychology Building, offers both psychological evaluations and therapeutic services to children and adults. Alumni The University of Memphis

## Alumni

Association has offices located in the Alumni Center on campus. The staff serves the University of Memphis Alumni Association and provides a communication linkage to the University for graduates and former students. The Alumni Association and staff also offer special services for current students and serve as the sponsors for the University's Student Ambassador Board.

## Oak Ridge Associated Universities

Since 1971, students and faculty of the University of Memphis have benefited from the University's membership in Oak Ridge Associated Universities (ORAU) is a consortium of 88 colleges and universities and a contractor for the United States Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education (ORISE), the DOE facility that ORAU operates, undergraduates, graduates, postgraduates, as well as faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are especially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering-related disciplines.

A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the ORISE Catalog of Education and Training Programs, which is available at <http://orise.ornl.gov/default.aspx>, or by calling either of the contacts below.

ORAU's Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU's members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research and support programs as well as services to chief research officers.

For more information about ORAU and its programs, contact Andrew Meyers, Vice Provost for Research, ORAU Councilor for the University of Memphis; Monnie E. Champion, ORAU Corporate Secretary, at 423.576.3306; or ORAU at <http://www.ornl.gov>.

## Extended Programs

**THE OFFICE OF PUBLIC SERVICE** serves as a prime contact for individuals and organizations outside the University. Through this office, access may be gained to University facilities and resources.

**THE MEMPHIS SMALL BUSINESS DEVELOPMENT CENTER** is organized to provide business development services to new and existing small business firms throughout West Tennessee. These services add to the economic development efforts of the local communities by adding and retaining employment. Special attention is given to women, minority, and veteran-owned businesses.

**LAMBUTH CAMPUS** offers a wide variety of undergraduate and graduate courses and degree programs to students living in the Jackson area.

**THE CONTINUING EDUCATION SHORT COURSE PROGRAM** serves as an important link to the Memphis community, providing comprehensive, non-credit programs ranging from professional development to personal enrichment. The program is designed to narrow the education gap left by the degree-awarding academic programs at the University of Memphis, thus complementing the University's mission of service to the community. The program is strongly service-oriented, providing general interest instruction to learners of all ages, regardless of their educational background. The Short Course Continuing Education product is high quality, affordable, and requires no formal admission to the University.

**THE KEEP TENNESSEE BEAUTIFUL** program, established in 1983, serves as the state Keep America Beautiful agency and state resource center for litter prevention and proper solid waste management education. Keep Tennessee Beautiful is funded by Tennessee Department of Transportation.

## The Graduate School

The Graduate School of the University of Memphis is the center of advanced study and research within the University. The basic objectives of the Graduate School are:

- To preserve and disseminate knowledge;
- To extend knowledge through research; and
- To prepare men and women to assume responsible and useful roles in a changing society.

The Doctor of Philosophy degree is awarded in audiology and speech pathology, biology, biomedical engineering, business, chemistry, communication arts, counseling psychology, earth sciences, educational psychology and research, engineering, English, history, mathematics, music, philosophy, and psychology. The degrees of Doctor of Audiology, Doctor of Education, and Doctor of Musical Arts are awarded by the School of Communication Sciences and Disorders, the College of Education, Health and Human Sciences, and the College of Communication and Fine Arts, respectively. The College of Education, Health and Human Sciences also awards the degree of Education Specialist with a major in education. The Cecil C. Humphreys School of Law awards the Juris Doctor degree.

Masters programs are offered in forty-eight major areas through six colleges and one school. The degrees include Master of Science, Master of Arts, Master of Fine Arts, Master of Arts in Liberal Studies, Master of Arts in Teaching, Master of Business Administration, International Master of Business Administration, Master of City and Regional Planning, Master of Music, Master of Health Administration, Master of Public Administration, and Master of Science in Nursing.

Graduate certificates are also offered in African American Literature, Applied Lean Leadership, Artist Diploma in Music, Business Information Assurance, Cognitive Science, College Teaching, Community College Teaching and Leadership, Disability Studies, Geographic Information Systems, Information Assurance, Instructional Computing Applications, Local Government Management, Museum Studies, Philanthropy and Non-Profit Leadership, Software Testing, Teaching English as a Second Language, Urban Education, and Women's and Gender Studies. The Loewenberg School of Nursing awards the post-master's Family Nurse Practitioner certificate.

Visit the Graduate School at <http://www.memphis.edu/gradschool/>

## Cecil C. Humphreys School of Law

The Cecil C. Humphreys School of Law offers a program of instruction leading to the degree of Juris Doctor.

Admission to the Cecil C. Humphreys School of Law is on a selective basis. To be eligible for admission, a student must have received a bachelor's degree from an accredited college or university and must have made a satisfactory score on the Law School Admission Test. Questions concerning additional admissions requirements should be addressed to the Assistant Dean for Admissions, Recruitment, and Scholarships at <http://www.memphis.edu/law/>. The regulations and policies of the School of Law are set out in greater detail in the Law School Catalog, a separate publication of the University of Memphis Catalog.

## Courses

### Academics

**ACAD 1100 - Academic Strategies**

**ACAD 1102 - Intro To University II**

**ACAD 2200 - Academic Success Seminar**

### Accountancy

**ACCT 2010 - Fundamentals of Acct I**  
**ACCT 2020 - Fundamentals of Acct II**  
**ACCT 3011 - Business Law**  
**ACCT 3110 - Intermediate Accounting I**  
**ACCT 3120 - Intermediate Accounting II**  
**ACCT 3130 - Legal/Social/Political Environ**  
**ACCT 3310 - Cost Accounting**  
**ACCT 3510 - Federal Income Tax I**  
**ACCT 4020 - Accounting Systems**  
**ACCT 4130 - Intermediate Accounting III**  
**ACCT 4211 - Adv Financial Reporting**  
**ACCT 4240 - Audit/Assurance Services**  
**ACCT 4250 - Accounting Ethics/Regulation**  
**ACCT 4320 - Managerial Decision Making/Accounting**  
**ACCT 4540 - Govt/Health/Non-Profit**  
**ACCT 4625 - Internl Acct/IFRS/US GAAP**  
**ACCT 4910 - Problems in Accounting**  
**ACCT 4911 - Internship in Accounting**  
**ACCT 4920 - Special Topics in Accounting**  
**ACCT 4921 - Special Topics in Accounting**  
**ACCT 4922 - Special Topics in Accounting**  
**ACCT 4923 - Special Topics in Accounting**  
**ACCT 4924 - Special Topics in Accounting**  
**ACCT 4925 - Special Topics in Accounting**  
**ACCT 4926 - Special Topics in Accounting**  
**ACCT 4927 - Special Topics in Accounting**  
**ACCT 4928 - Special Topics in Accounting**  
**ACCT 4929 - Special Topics in Accounting**  
**ACCT 4996 - Senior Honors Thesis**

## **Advertising**

- ADVR 3300 - Survey of Advertising**
- ADVR 3310 - Branding and Strategic Media**
- ADVR 3324 - Creative Strategy**
- ADVR 4326 - Advertising Research**
- ADVR 4327 - Media Planning**
- ADVR 4328 - Strategic Adv Campaigns**

## **Aerospace Studies**

- AERO 1111 - The Air Force Today**
- AERO 1112 - The Air Force Today**
- AERO 2211 - The Air Force Way**
- AERO 2212 - The Air Force Way**
- AERO 3211 - Aerospace Study**
- AERO 3212 - Aerospace Study**
- AERO 3311 - AF Leadership/Managemnt**
- AERO 3312 - AF Leadership/Managemnt**
- AERO 4411 - Prep For Active Duty**
- AERO 4412 - Prep For Active Duty**

## **African and African American Studies**

- AAAS 2100 - Intro Afr/Afr American Study**
- AAAS 3100 - Research Method/Afr American**
- AAAS 4100 - Seminar Afr/Afr Amer Studies**
- AAAS 4251 - African Religions/Diaspora**
- AAAS 4351 - Ghanaian Hist/Culture**
- AAAS 4451 - Rhetoric of Hip Hop**
- AAAS 4501 - Internship**
- AAAS 4901 - Independent Study**

**AAAS 4990 - Hist Black-Jewish Relations**

**AAAS 4990 - Special Topics in African and African American Studies.**

**AAAS 4991 - Special Topics in African and African American Studies.**

**AAAS 4992 - Special Topics in African and African American Studies.**

**AAAS 4993 - Special Topics in African and African American Studies.**

**AAAS 4994 - Special Topics in African and African American Studies.**

**AAAS 4995 - Special Topics in African and African American Studies.**

**AAAS 4996 - Special Topics in African and African American Studies.**

**AAAS 4997 - Special Topics in African and African American Studies.**

**AAAS 4998 - Special Topics in African and African American Studies.**

**AAAS 4999 - Special Topics in African and African American Studies.**

## **Anthropology**

**ANTH 1100 - Biol Anth & Prehistory**

**ANTH 1200 - Cultural Anthropology**

**ANTH 2300 - Great Discoveries Archaeology**

**ANTH 2301 - Fundamentals of Archaeology**

**ANTH 3111 - Human Paleontology**

**ANTH 3200 - Peoples/Cultures World**

**ANTH 3242 - Peoples of Africa**

**ANTH 3253 - Magic & Religion**

**ANTH 3282 - American Communities**

**ANTH 3300 - Rise To Civilization**

**ANTH 3500 - Anth of Global Health**

**ANTH 3511 - Culture/Kin/Family**

**ANTH 4010 - Ethnographic Methods**

**ANTH 4065 - Anthropological Theory**

**ANTH 4111 - Evolution and Human Health**

**ANTH 4120 - Africa's New World Comm**

**ANTH 4220 - Cultural Perspec/Environment**  
**ANTH 4270 - Ancient Human Soc/Envir Chng**  
**ANTH 4301 - Archaeology of North America**  
**ANTH 4302 - Native People of North America**  
**ANTH 4325 - Archaeol Fld/Lab Techn**  
**ANTH 4335 - Analysis of Stone Artifacts**  
**ANTH 4350 - Archaeology of Collapse**  
**ANTH 4352 - Old World Archaeology**  
**ANTH 4365 - Cultural Resource Mgmt**  
**ANTH 4411 - Urban Anthropology**  
**ANTH 4412 - Neighborhood Development**  
**ANTH 4413 - Anth of Tourism/Environment**  
**ANTH 4415 - Anthropology Human Rights**  
**ANTH 4416 - Culture/Identity/Power**  
**ANTH 4417 - Hidden Worlds of Food**  
**ANTH 4431 - Shopping as a Social Science**  
**ANTH 4510 - Health/Culture/Environ Justice**  
**ANTH 4511 - Medical Anthropology**  
**ANTH 4521 - Culture, Soc & Mental Health**  
**ANTH 4531 - Alcohol/Drugs/Culture**  
**ANTH 4541 - Nutritional Anth**  
**ANTH 4551 - Culture/Sex/Childbirth**  
**ANTH 4571 - Race and Health Disparities**  
**ANTH 4660 - Museum Collections**  
**ANTH 4661 - Collections Research**  
**ANTH 4662 - Museum Exhibitions**  
**ANTH 4680 - Applied Archaeology/Museums**  
**ANTH 4840 - Israel/Antqty In Mdrnty**  
**ANTH 4841 - Biblical Archaeology**



**ANTH 4970 - Directed Anth Internshp**

**ANTH 4975 - Directed Ind Reading**

**ANTH 4985 - Direct Ind Research**

**ANTH 4990 - Special Topics in Anthropology**

**ANTH 4991 - Special Topics in Anthropology**

**ANTH 4992 - Special Topics in Anthropology**

**ANTH 4993 - Special Topics in Anthropology**

**ANTH 4994 - Special Topics in Anthropology**

**ANTH 4995 - Special Topics in Anthropology**

**ANTH 4996 - Special Topics in Anthropology**

**ANTH 4997 - Special Topics in Anthropology**

**ANTH 4998 - Special Topics in Anthropology**

**ANTH 4999 - Special Topics in Anthropology**

## **Applied Music**

**MUAP 1100 - Introductory Class Piano**

**MUAP 1105 - Class Inst Piano I**

**MUAP 1106 - Class Instr Piano II**

**MUAP 1110 - Trumpet Intro Instr**

**MUAP 1111 - Trumpet**

**MUAP 1112 - Commercial Music Trumpet**

**MUAP 1116 - Jazz Class Piano**

**MUAP 1118 - Class Instruction Guitar**

**MUAP 1120 - Horn Intro Instr**

**MUAP 1121 - Horn**

**MUAP 1130 - Trombone Intro Instr**

**MUAP 1131 - Trombone**

**MUAP 1132 - Commercial Music Trombone**

**MUAP 1140 - Tuba Intro Instr**

**MUAP 1141 - Tuba**

**MUAP 1142 - Euphonium**

**MUAP 1150 - Cornett Intro Instr**

**MUAP 1151 - Cornett**

**MUAP 1160 - Sackbut Intro Instr**

**MUAP 1161 - Sackbut**

**MUAP 1310 - Piano Intro Instr**

**MUAP 1311 - Piano**

**MUAP 1312 - Commerical Music Piano**

**MUAP 1320 - Harpsichord Intro Instr**

**MUAP 1321 - Harpsichord**

**MUAP 1330 - Organ Intro Instruction**

**MUAP 1331 - Organ**

**MUAP 1410 - Percussion Intro Instr**

**MUAP 1411 - Percussion**

**MUAP 1412 - Commerical Music Percussion**

**MUAP 1413 - Ethnic Percussion**

**MUAP 1414 - Ethnic Percussion**

**MUAP 1415 - Commercial Music Mallets**

**MUAP 1510 - Violin Intro Instr**

**MUAP 1511 - Violin**

**MUAP 1512 - Baroque Violin**

**MUAP 1520 - Viola Intro Instr**

**MUAP 1521 - Viola**

**MUAP 1530 - Cello Intro Instr**

**MUAP 1531 - Cello**

**MUAP 1540 - Bass Intro Instr**

**MUAP 1541 - Bass**

**MUAP 1542 - Commercial Music Bass**

**MUAP 1550 - Guitar Intro Instr**  
**MUAP 1551 - Guitar**  
**MUAP 1552 - Commercial Music Guitar**  
**MUAP 1560 - Harp Intro Instr**  
**MUAP 1561 - Harp**  
**MUAP 1570 - Viola Da Gamba Intr Ins**  
**MUAP 1571 - Viola Da Gamba**  
**MUAP 1610 - Voice Intro Instr**  
**MUAP 1611 - Voice**  
**MUAP 1612 - Commercial Music Voice**  
**MUAP 1710 - Flute Intro Instr**  
**MUAP 1711 - Flute**  
**MUAP 1720 - Oboe Intro Instr**  
**MUAP 1721 - Oboe**  
**MUAP 1730 - Clarinet Intro Instr**  
**MUAP 1731 - Clarinet**  
**MUAP 1740 - Saxophone Intro Instr**  
**MUAP 1741 - Saxophone**  
**MUAP 1742 - Commercial Music Saxophone**  
**MUAP 1750 - Bassoon Intro Instr**  
**MUAP 1751 - Bassoon**  
**MUAP 1760 - Recorder Intro Instr**  
**MUAP 1761 - Recorder**  
**MUAP 2001 - Symphonic Band**  
**MUAP 2002 - Marching Band**  
**MUAP 2003 - University Band**  
**MUAP 2004 - University Gospel Choir**  
**MUAP 2007 - Collegiate Choir**  
**MUAP 2008 - Pep Band**

**MUAP 2107 - Class Instruction in Piano III**  
**MUAP 2108 - Class Instruct Piano IV**  
**MUAP 2201 - Techniques in Woodwind Instru**  
**MUAP 3004 - Wind Ensemble**  
**MUAP 3005 - University Orchestra**  
**MUAP 3006 - University Singers**  
**MUAP 3007 - Opera Chorus**  
**MUAP 3008 - Oratorio Chorus**  
**MUAP 3012 - Univ Instrumentl Jazz Ensemble**  
**MUAP 3013 - Univ Voice Jazz Ensemble**  
**MUAP 3014 - Recording Studio Instr Ensembl**  
**MUAP 3015 - Recording Studio Vocal Ensmble**  
**MUAP 3016 - Sound Fuzion**  
**MUAP 3101 - Brass Ensemble**  
**MUAP 3103 - Commercial Music Combo**  
**MUAP 3104 - Collegium Musicum**  
**MUAP 3301 - Chamber Music/Keyboard**  
**MUAP 3401 - Percussion Ensemble**  
**MUAP 3402 - Contemporary Chamber Player**  
**MUAP 3403 - Orff Ensemble**  
**MUAP 3501 - Chamber Music/Strings**  
**MUAP 3503 - Double Bass Ensemble**  
**MUAP 3504 - Guitar Ensemble**  
**MUAP 3505 - Cello Ensemble**  
**MUAP 3506 - Trombone Ensemble**  
**MUAP 3507 - Tuba Ensemble**  
**MUAP 3508 - Trumpet Ensemble**  
**MUAP 3601 - Chamber Choir**  
**MUAP 3602 - Opera Workshop**

**MUAP 3603 - Opera Soloists**  
**MUAP 3604 - Opera Production Lab**  
**MUAP 3701 - Woodwind Ensemble**  
**MUAP 3999 - Junior Recital**  
**MUAP 4004 - Orchestral Excerpts**  
**MUAP 4103 - Jazz/Studio Ensemble Techniques**  
**MUAP 4111 - Applied Music Trumpet**  
**MUAP 4112 - Commercial Music Trumpet**  
**MUAP 4121 - Horn**  
**MUAP 4131 - Trombone**  
**MUAP 4132 - Commercial Music Trombone**  
**MUAP 4141 - Tuba**  
**MUAP 4142 - Euphonium**  
**MUAP 4151 - Cornett**  
**MUAP 4161 - Sackbut**  
**MUAP 4263 - Reed Making**  
**MUAP 4301 - Acting for Opera I**  
**MUAP 4302 - Acting for Opera II**  
**MUAP 4311 - Piano**  
**MUAP 4312 - Commercial Music Piano**  
**MUAP 4321 - Harpsichord**  
**MUAP 4331 - Organ**  
**MUAP 4411 - Percussion**  
**MUAP 4412 - Commercial Music Percussion**  
**MUAP 4414 - Ethnic Percussion**  
**MUAP 4511 - Violin**  
**MUAP 4512 - Baroque Violin**  
**MUAP 4521 - Viola**  
**MUAP 4531 - Cello**

**MUAP 4541 - Bass**

**MUAP 4542 - Commercial Music Bass**

**MUAP 4551 - Guitar**

**MUAP 4552 - Commercial Music Guitar**

**MUAP 4561 - Harp**

**MUAP 4571 - Viola Da Gamba**

**MUAP 4611 - Voice**

**MUAP 4612 - Commercial Music Voice**

**MUAP 4711 - Flute**

**MUAP 4721 - Oboe**

**MUAP 4731 - Clarinet**

**MUAP 4741 - Saxophone**

**MUAP 4742 - Commercial Music Saxophone**

**MUAP 4751 - Bassoon**

**MUAP 4761 - Recorder**

**MUAP 4801 - Individual Study Applied Music**

**MUAP 4895 - Sr Proj Jazz/Studio Perform**

**MUAP 4999 - Artist Recital**

## **Arabic**

**ARAB 1010 - Elementary Arabic I**

**ARAB 1020 - Elementary Arabic II**

**ARAB 2010 - Intermediate Arabic I**

**ARAB 2020 - Intermediate Arabic II**

## **Architecture**

**ARCH 1111 - Fundamentals of Design Studio**

**ARCH 1112 - Architecture Graphics Studio**

**ARCH 1113 - Design Visualization**

**ARCH 1120 - Intro to Architecture + Design**

**ARCH 1211 - History of Architecture 1**

**ARCH 2212 - History of Architecture 2**

**ARCH 2311 - Structural Concepts**

**ARCH 2411 - Building Technology 1**

**ARCH 2412 - Building Technology 2**

**ARCH 2611 - Computer Apps in Design 1**

**ARCH 2612 - Computer Apps in Design 2**

**ARCH 2711 - Design Studio 1**

**ARCH 2712 - Design Studio 2**

**ARCH 3213 - Survey of Interiors+Furniture**

**ARCH 3221 - Determinants of Modern Design**

**ARCH 3222 - Contemporary Architecture 1**

**ARCH 3312 - Structures 2**

**ARCH 3313 - Structures 3**

**ARCH 3321 - Structural Design 1**

**ARCH 3322 - Structural Design 2**

**ARCH 3421 - Environmental Systems**

**ARCH 3431 - Professional Practice**

**ARCH 3613 - Computer Apps in Design 3**

**ARCH 3713 - Design Studio 3**

**ARCH 3714 - Design Studio 4**

**ARCH 4021 - Architecture Independent Study**

**ARCH 4022 - Architecture+Urbanism Seminar**

**ARCH 4023 - Urban Design Seminar**

**ARCH 4231 - Issues in City Building**

**ARCH 4421 - Sustainable Design**

**ARCH 4430 - Internship in Architecture**

**ARCH 4441 - Construction Documents**

**ARCH 4451 - Site/Environmental Planning**  
**ARCH 4510 - Special Topics**  
**ARCH 4511 - Special Topics**  
**ARCH 4512 - Special Topics**  
**ARCH 4513 - Special Topics**  
**ARCH 4514 - Special Topics**  
**ARCH 4515 - Special Topics**  
**ARCH 4516 - Special Topics**  
**ARCH 4517 - Special Topics**  
**ARCH 4518 - Special Topics**  
**ARCH 4519 - Special Topics**  
**ARCH 4715 - Design Studio 5**  
**ARCH 4716 - Design Studio 6**  
**ARCH 4811 - Parameters Architecture Studio**  
**ARCH 4812 - Furniture Design Studio**  
**ARCH 4821 - Urban Design Studio**  
**ARCH 4822 - Architecture/Urbanism Studio**  
**ARCH 4823 - Design Collaborative Studio 1**  
**ARCH 4824 - Design Collaborative Studio 2**  
**ARCH 4825 - Design+Build Studio**  
**ARCH 4833 - Architectural Illustration**  
**ARCH 4841 - Studio Study Abroad**  
**ARCH 4930 - Senior Thesis**  
**ARCH 4931 - Senior Thesis Seminar**

## **Art**

**ART 1030 - Intro to Art**  
**ART 1210 - Foundations Studio I**  
**ART 1215 - Foundations Studio II**



**ART 1311 - Drawing I**  
**ART 1314 - Drawing II**  
**ART 2213 - Typographic Design I**  
**ART 2219 - Visual Thinking**  
**ART 2223 - Computer Assisted Graphc Des**  
**ART 2301 - Digital Art I**  
**ART 2305 - Princ Time/Based Media**  
**ART 2331 - Painting I**  
**ART 2351 - Intro to Printmaking**  
**ART 2352 - Intro Intaglio/Lithography**  
**ART 2511 - Sculpture I**  
**ART 2523 - Ceramics I**  
**ART 2701 - Photography I**  
**ART 2702 - Photography II**  
**ART 3000 - Photography Lab Management**  
**ART 3213 - Typographic Design II**  
**ART 3219 - Image Design**  
**ART 3222 - Graphic Design Method**  
**ART 3227 - Electronic Pre-Press Prod**  
**ART 3313 - Drawing And Composition**  
**ART 3314 - Drawing And Concepts**  
**ART 3332 - Painting II**  
**ART 3351 - Intaglio Printmaking**  
**ART 3352 - Lithography**  
**ART 3411 - Art for Children**  
**ART 3414 - Primary School Art Practicum**  
**ART 3416 - Middle School Art Practicum**  
**ART 3423 - Art Secondary Schools**  
**ART 3511 - Sculpture II**

**ART 3512 - Sculpture III**  
**ART 3522 - Kilns/Glazes/Tech Skill**  
**ART 3524 - Ceramics II**  
**ART 3701 - Photography III**  
**ART 4010 - Special Topics in Studio Art**  
**ART 4011 - Special Topics in Studio Art**  
**ART 4012 - Special Topics in Studio Art**  
**ART 4013 - Special Topics in Studio Art**  
**ART 4014 - Special Topics in Studio Art**  
**ART 4015 - Special Topics in Studio Art**  
**ART 4016 - Special Topics in Studio Art**  
**ART 4017 - Special Topics in Studio Art**  
**ART 4018 - Special Topics in Studio Art**  
**ART 4019 - Special Topics in Studio Art**  
**ART 4020 - Special Topics In Art Education**  
**ART 4021 - Special Topics In Art Education**  
**ART 4022 - Special Topics In Art Education**  
**ART 4023 - Special Topics In Art Education**  
**ART 4024 - Special Topics In Art Education**  
**ART 4025 - Special Topics In Art Education**  
**ART 4026 - Special Topics In Art Education**  
**ART 4027 - Special Topics In Art Education**  
**ART 4028 - Special Topics In Art Education**  
**ART 4029 - Special Topics In Art Education**  
**ART 4140 - Publication Design**  
**ART 4169 - Mural Painting as Public Art**  
**ART 4209 - Digitl/Motion Typogrphy**  
**ART 4211 - Writing/Design Process**  
**ART 4221 - Graphic Design/Print Comm**

**ART 4222 - Interactive Mltimd/Graphic Des**  
**ART 4223 - Special Studies/Graphic Des**  
**ART 4224 - History Graphic Design**  
**ART 4229 - Gallery Internship**  
**ART 4230 - Graphic Design Internship**  
**ART 4233 - Design Practice Studio**  
**ART 4235 - Graphic Design Portfolio**  
**ART 4314 - Art of the Book**  
**ART 4321 - Drawing and Painting I**  
**ART 4322 - Drawing and Painting II**  
**ART 4331 - Painting III**  
**ART 4332 - Painting IV**  
**ART 4333 - Painting V**  
**ART 4351 - Adv Printmaking I**  
**ART 4352 - Adv Printmaking II**  
**ART 4353 - Computer Image Print/Photo I**  
**ART 4354 - Computer Image Print/Photo II**  
**ART 4410 - Art Educ Independ Study**  
**ART 4418 - High School Art Practicum**  
**ART 4420 - Alternative Art/Ed Practicum**  
**ART 4427 - Method/Materials Art Instruc**  
**ART 4430 - Community Art Project**  
**ART 4440 - Analysis of Teaching**  
**ART 4441 - Art Ed Prof Seminar**  
**ART 4500 - Web Publishing I: html/CSS**  
**ART 4511 - Sculpture IV**  
**ART 4512 - Sculpture V**  
**ART 4521 - Ceramics III**  
**ART 4522 - Ceramics IV**

**ART 4526 - Advanced Photojournalism**  
**ART 4550 - Web Publishing II: html/CSS**  
**ART 4560 - Interactive Media Design**  
**ART 4621 - Workshop in Art I**  
**ART 4622 - Workshop in Art II**  
**ART 4641 - Study and Travel in Art**  
**ART 4650 - Profess Art Practices**  
**ART 4701 - Color Photography**  
**ART 4702 - Photographic Material/Process**  
**ART 4703 - Alternative Photogrphc Process**  
**ART 4704 - Photographic Lighting**  
**ART 4705 - Video for Artists**  
**ART 4711 - Adv Photography Seminar**  
**ART 4712 - Photography Portfolio Seminar**  
**ART 4912 - Art Education Residency II**  
**ART 4914 - Art Education Residency I**  
**ART 4920 - Information Design**  
**ART 4990 - Senior Thesis Preparation**  
**ART 4995 - Senior Thesis Exhibition**

## **Art History**

**ARTH 2000 - Introduction to Egyptology**  
**ARTH 2010 - World Art I**  
**ARTH 2020 - World Art II**  
**ARTH 2030 - Visual Studies/Indigenous Arts**  
**ARTH 4030 - Special Topics in Art History**  
**ARTH 4031 - Special Topics in Art History**  
**ARTH 4032 - Special Topics in Art History**  
**ARTH 4033 - Special Topics in Art History**

**ARTH 4034 - Special Topics in Art History**  
**ARTH 4035 - Special Topics in Art History**  
**ARTH 4036 - Special Topics in Art History**  
**ARTH 4037 - Special Topics in Art History**  
**ARTH 4038 - Special Topics in Art History**  
**ARTH 4039 - Special Topics in Art History**  
**ARTH 4111 - Art/Archaeology of Egypt**  
**ARTH 4112 - Egypt Art-Old Kingdom**  
**ARTH 4113 - Egypt Art-New Kingdom**  
**ARTH 4119 - Late Antique/Islamic Art/Egypt**  
**ARTH 4121 - Ancient Art Near East**  
**ARTH 4123 - Greek Art**  
**ARTH 4124 - Roman Art**  
**ARTH 4125 - Art/Archaeology Pompeii**  
**ARTH 4129 - Ancient/Medieval Architecture**  
**ARTH 4130 - Art/Medieval World**  
**ARTH 4131 - Art/Early Middle Ages**  
**ARTH 4134 - Art/High Middle Ages**  
**ARTH 4141 - Early Renaissance Italy**  
**ARTH 4142 - North Renaissance Art**  
**ARTH 4143 - High Renaissance Italy**  
**ARTH 4146 - Baroque Art**  
**ARTH 4148 - Neo-Class/Romanticism**  
**ARTH 4149 - Realism & Impressionism**  
**ARTH 4152 - Early Modern Art**  
**ARTH 4153 - Cubism through Surrealism**  
**ARTH 4155 - High Modern Art**  
**ARTH 4157 - Contemp Art/Theory/Criticism**  
**ARTH 4158 - Modern Architecture**

**ARTH 4160 - Architecture and Nature**

**ARTH 4162 - Latin American Art**

**ARTH 4163 - Pre-Columbian Art**

**ARTH 4166 - History of American Art**

**ARTH 4167 - American Art, 1860-1945**

**ARTH 4167 - American Art, 1960-1945**

**ARTH 4168 - Art/Soc Conflict USA 1920-Pres**

**ARTH 4181 - Arts Africa/Oceania/N America**

**ARTH 4183 - Visual Arts of Africa**

**ARTH 4184 - Arts of Colonialism/Empire**

**ARTH 4185 - African American Art**

**ARTH 4186 - Afr American Diaspora Cinema**

**ARTH 4187 - Af Am Diaspora Photo Culture**

**ARTH 4195 - Proseminar Art History**

**ARTH 4197 - Adv Indiv Research/ARTH**

**ARTH 4381 - Art Curatorial Techniques**

**ARTH 4386 - Introduction to Museums**

**ARTH 4660 - Museum Collections**

**ARTH 4661 - Collections Research**

**ARTH 4662 - Museum Exhibitions**

**ARTH 4721 - History Photography I**

**ARTH 4722 - History Photography II**

## **Audiology and Speech Language Pathology**

**AUSP 4001 - Accent Modification**

**AUSP 4100 - Intro Amer Sign Lang I**

**AUSP 4101 - Amer Sign Language II**

**AUSP 4102 - Inter Amer Sign Lang**

**AUSP 4103 - Intermediate American Sign Language II**

**AUSP 4106 - introduction to Audiology**

**AUSP 4111 - Fingerspelling**

**AUSP 4300 - Autism: Communication and Socialization**

## **Biology**

**BIOL 1010 - Biology of Cells**

**BIOL 1011 - Biology of Cells Lab**

**BIOL 1020 - Biology of Organisms**

**BIOL 1021 - Biology of Organisms Lab**

**BIOL 1110 - General Biology I**

**BIOL 1111 - General Biology I Lab**

**BIOL 1120 - General Biology II**

**BIOL 1121 - General Biol II Lab**

**BIOL 1230 - Microbiology**

**BIOL 1231 - Microbiology Lab**

**BIOL 2010 - Anatomy/Physiology I**

**BIOL 2011 - Anat/Physiology I Lab**

**BIOL 2020 - Anatomy/Physiology II**

**BIOL 2021 - Anat/Physiology II Lab**

**BIOL 3050 - General Ecology**

**BIOL 3051 - General Ecology Lab**

**BIOL 3072 - Genetics**

**BIOL 3073 - Genetics Laboratory**

**BIOL 3130 - Cell Biology**

**BIOL 3200 - General Botany**

**BIOL 3500 - Micro I/Fundmntl Aspect**

**BIOL 3505 - Gen Microbiology Lab**

**BIOL 3550 - Micro II/Med/Appl Aspct**

**BIOL 3610 - Vertebrate Embryology**

**BIOL 3620 - Comp Anatomy of Vertebrts**  
**BIOL 3730 - Vertebrate Physiology**  
**BIOL 4000 - Research I**  
**BIOL 4001 - Research II**  
**BIOL 4049 - Marine Ecology**  
**BIOL 4051 - Marine Ecology**  
**BIOL 4053 - Plant Ecology**  
**BIOL 4054 - Wetland Ecology**  
**BIOL 4055 - Ecology/Environment Iss**  
**BIOL 4056 - Tropical Ecology**  
**BIOL 4071 - Human Genetics**  
**BIOL 4090 - Special Topics in Biology**  
**BIOL 4091 - Special Topics in Biology**  
**BIOL 4092 - Special Topics in Biology**  
**BIOL 4093 - Special Topics in Biology**  
**BIOL 4094 - Special Topics in Biology**  
**BIOL 4095 - Special Topics in Biology**  
**BIOL 4096 - Special Topics in Biology**  
**BIOL 4097 - Special Topics in Biology**  
**BIOL 4098 - Special Topics in Biology**  
**BIOL 4099 - Special Topics in Biology**  
**BIOL 4100 - Evolution**  
**BIOL 4110 - Science of Medicine**  
**BIOL 4150 - Developmental Biology**  
**BIOL 4200 - Marine Botany**  
**BIOL 4230 - Plant Physiology**  
**BIOL 4241 - Biogeog/GIS Analyses/Ecology**  
**BIOL 4245 - Plant Systematics/Evolution**  
**BIOL 4300 - Microbial Physiology**



**BIOL 4320 - Biology of Stem Cells**  
**BIOL 4375 - Molec Biol/Parasite**  
**BIOL 4380 - Histology/Tissue/Organ**  
**BIOL 4401 - Plant Cell Molec Biol**  
**BIOL 4440 - Pathogenic Bacteriology**  
**BIOL 4445 - Immunology**  
**BIOL 4450 - Microbial Ecology**  
**BIOL 4465 - Adv Medical Micro Lab**  
**BIOL 4470 - Molecular Biology of the Gene**  
**BIOL 4480 - Cellular/Molec Pharm**  
**BIOL 4500 - Marine Microbiology**  
**BIOL 4501 - Virology**  
**BIOL 4503 - Lab Tech In Biochem**  
**BIOL 4504 - Lab Tech Molecular Biol**  
**BIOL 4511 - Biochemistry I**  
**BIOL 4512 - Biochemistry II**  
**BIOL 4570 - Practicum In Biology**  
**BIOL 4600 - Marine Vert Zoo Icht**  
**BIOL 4604 - Animal Behavior**  
**BIOL 4610 - Honors Senior Seminar**  
**BIOL 4630 - General Endocrinology**  
**BIOL 4635 - Neurobiology**  
**BIOL 4640 - Ornithology**  
**BIOL 4644 - Ichthyology**  
**BIOL 4646 - Marine Fisheries Mgmt**  
**BIOL 4651 - Field Tech/Vertebrate Zoology**  
**BIOL 4730 - Urban/Wildlife Eco/Mgmt**  
**BIOL 4740 - Mammalogy**  
**BIOL 4744 - Herpetology**

**BIOL 4745 - Tropical Herpetology**  
**BIOL 4800 - Marine Invertebrate Zoo**  
**BIOL 4801 - Marine Invertebrate Zoology Lab**  
**BIOL 4802 - Elasmobranch Biology**  
**BIOL 4803 - Elasmobranch Biology Lab**  
**BIOL 4804 - Elasmobranch Physiology**  
**BIOL 4806 - Marine Mammals**  
**BIOL 4807 - Marine Mammals Lab**  
**BIOL 4808 - Marine Ichthyology**  
**BIOL 4809 - Marine Ichthyology Lab**  
**BIOL 4810 - Field Exercises Coastal Herpetology**  
**BIOL 4811 - Cetacean Behavior**  
**BIOL 4812 - Marine Biology**  
**BIOL 4813 - Marine Biology Lab**  
**BIOL 4814 - Barrier Island Ecology**  
**BIOL 4840 - Invertebrate Zoology**  
**BIOL 4844 - Parasites Marine Animals**  
**BIOL 4850 - Fauna/Ecology Tidal Marsh**  
**BIOL 4900 - Entomology**

## **Biomedical Engineering**

**BIOM 1701 - Introduction to Biomedical Engineering Design**  
**BIOM 1702 - Biomedication Engineering Visualization**  
**BIOM 1720 - Intro Biomed Engr Tools**  
**BIOM 2720 - Experimental Design Analysis**  
**BIOM 2810 - Intro Biomechanics/Mechanics of Materials**  
**BIOM 3010 - Medical Measurements**  
**BIOM 3110 - Med Physiology/BIOM**  
**BIOM 3710 - Physiological System/Modeling**

**BIOM 4110 - Science of Medicine**

**BIOM 4150 - Engr Tools Design Med Devices**

**BIOM 4205 - Intro Biomed and Chem Sensors**

**BIOM 4210 - Research Studies**

**BIOM 4393 - Appld Finite Element Analysis**

**BIOM 4410 - Biomedical Engineering Practicum**

**BIOM 4590 - Fundamentals of Engineering Review Biomedical Engineering**

**BIOM 4702 - Biotechn Tools for BME Res**

**BIOM 4720 - Bioelectricity**

**BIOM 4730 - Biomaterials**

**BIOM 4750 - Biomechanics**

**BIOM 4760 - Biomed Engr Design Principles**

**BIOM 4780 - Senior Project**

**BIOM 4800 - BME Honors Seminar**

**BIOM 4900 - Special Topics in Biomedical Engineering**

**BIOM 4901 - Special Topics in Biomedical Engineering**

**BIOM 4902 - Special Topics in Biomedical Engineering**

**BIOM 4903 - Special Topics in Biomedical Engineering**

**BIOM 4904 - Special Topics in Biomedical Engineering**

**BIOM 4905 - Special Topics in Biomedical Engineering**

**BIOM 4906 - Special Topics in Biomedical Engineering**

**BIOM 4907 - Special Topics in Biomedical Engineering**

**BIOM 4908 - Special Topics in Biomedical Engineering**

**BIOM 4909 - Special Topics in Biomedical Engineering**

**BIOM 4910 - Special Topics in Biomedical Engineering**

**BIOM 4911 - Special Topics in Biomedical Engineering**

**BIOM 4912 - Special Topics in Biomedical Engineering**

**BIOM 4913 - Special Topics in Biomedical Engineering**

**BIOM 4914 - Special Topics in Biomedical Engineering**

**BIOM 4915 - Special Topics in Biomedical Engineering**

**BIOM 4916 - Special Topics in Biomedical Engineering**

**BIOM 4917 - Special Topics in Biomedical Engineering**

**BIOM 4918 - Special Topics in Biomedical Engineering**

**BIOM 4919 - Special Topics in Biomedical Engineering**

**BIOM 4999 - BME Honors Thesis**

## **Business Administration**

**BA 4811 - Internship in Business**

**BA 4900 - Practicum In Research**

**BA 4910 - Independent Study in International Business**

**BA 4911 - Internship International Business**

## **Chemistry**

**CHEM 1010 - Chemistry of Materials**

**CHEM 1011 - Chemistry of Materials Lab**

**CHEM 1020 - Chemistry of Life**

**CHEM 1021 - Chemistry of Life Lab**

**CHEM 1040 - Intro to General Chemistry**

**CHEM 1100 - Prep General Chemistry**

**CHEM 1110 - General Chemistry I**

**CHEM 1111 - General Chemistry I Lab**

**CHEM 1120 - General Chemistry II**

**CHEM 1121 - General Chemistry II Lab**

**CHEM 2220 - Quantitative Analysis I**

**CHEM 2310 - Intro/Quantitative Analysis**

**CHEM 3005 - Organic Chem Survey**

**CHEM 3111 - Foundations/Inorganic CHEM**

**CHEM 3201 - Foundation/Analytical CHEM lab**

**CHEM 3211 - Foundations/Analytical CHEM**

**CHEM 3301 - Foundations/Organic Chem Lab**

**CHEM 3310 - Foundations/Organic Chemistry**

**CHEM 3411 - Foundations/Physical Chemistry**

**CHEM 3501 - Foundation/Bioorganic Chem Lab**

**CHEM 3511 - Foundations/Bioorganic CHEM**

**CHEM 4001 - Environmental Chemistry**

**CHEM 4111 - Intermediate Inorganic CHEM**

**CHEM 4180 - Special Topics In Inorganic Chemistry**

**CHEM 4181 - Special Topics In Inorganic Chemistry**

**CHEM 4182 - Special Topics In Inorganic Chemistry**

**CHEM 4183 - Special Topics In Inorganic Chemistry**

**CHEM 4184 - Special Topics In Inorganic Chemistry**

**CHEM 4185 - Special Topics In Inorganic Chemistry**

**CHEM 4186 - Special Topics In Inorganic Chemistry**

**CHEM 4187 - Special Topics In Inorganic Chemistry**

**CHEM 4188 - Special Topics In Inorganic Chemistry**

**CHEM 4189 - Special Topics In Inorganic Chemistry**

**CHEM 4190 - Special Topics In Inorganic Chemistry**

**CHEM 4191 - Special Topics In Inorganic Chemistry**

**CHEM 4192 - Special Topics In Inorganic Chemistry**

**CHEM 4193 - Special Topics In Inorganic Chemistry**

**CHEM 4194 - Special Topics In Inorganic Chemistry**

**CHEM 4195 - Special Topics In Inorganic Chemistry**

**CHEM 4196 - Special Topics In Inorganic Chemistry**

**CHEM 4197 - Special Topics In Inorganic Chemistry**

**CHEM 4198 - Special Topics In Inorganic Chemistry**

**CHEM 4199 - Special Topics In Inorganic Chemistry**

**CHEM 4201 - Instrumental Analysis Lab**

**CHEM 4211 - Instrumental Analysis**

**CHEM 4280 - Special Topics In Analytical Chemistry**

**CHEM 4281 - Special Topics In Analytical Chemistry**

**CHEM 4282 - Special Topics In Analytical Chemistry**

**CHEM 4283 - Special Topics In Analytical Chemistry**

**CHEM 4284 - Special Topics In Analytical Chemistry**

**CHEM 4285 - Special Topics In Analytical Chemistry**

**CHEM 4286 - Special Topics In Analytical Chemistry**

**CHEM 4287 - Special Topics In Analytical Chemistry**

**CHEM 4288 - Special Topics In Analytical Chemistry**

**CHEM 4289 - Special Topics In Analytical Chemistry**

**CHEM 4290 - Special Topics In Analytical Chemistry**

**CHEM 4291 - Special Topics In Analytical Chemistry**

**CHEM 4292 - Special Topics In Analytical Chemistry**

**CHEM 4293 - Special Topics In Analytical Chemistry**

**CHEM 4294 - Special Topics In Analytical Chemistry**

**CHEM 4295 - Special Topics In Analytical Chemistry**

**CHEM 4296 - Special Topics In Analytical Chemistry**

**CHEM 4297 - Special Topics In Analytical Chemistry**

**CHEM 4298 - Special Topics In Analytical Chemistry**

**CHEM 4299 - Special Topics In Analytical Chemistry**

**CHEM 4300 - General Biochemistry**

**CHEM 4310 - Intermediate Organic Chemistry**

**CHEM 4310 - Intermediate Organic Chemistry**

**CHEM 4311 - Physical Organic Chemistry**

**CHEM 4315 - Organic Medicinal Chem**

**CHEM 4380 - Special Topics In Organic Chemistry**

**CHEM 4381 - Special Topics In Organic Chemistry**

**CHEM 4382 - Special Topics In Organic Chemistry**  
**CHEM 4383 - Special Topics In Organic Chemistry**  
**CHEM 4384 - Special Topics In Organic Chemistry**  
**CHEM 4385 - Special Topics In Organic Chemistry**  
**CHEM 4386 - Special Topics In Organic Chemistry**  
**CHEM 4387 - Special Topics In Organic Chemistry**  
**CHEM 4388 - Special Topics In Organic Chemistry**  
**CHEM 4389 - Special Topics In Organic Chemistry**  
**CHEM 4390 - Special Topics In Organic Chemistry**  
**CHEM 4391 - Special Topics In Organic Chemistry**  
**CHEM 4392 - Special Topics In Organic Chemistry**  
**CHEM 4393 - Special Topics In Organic Chemistry**  
**CHEM 4394 - Special Topics In Organic Chemistry**  
**CHEM 4395 - Special Topics In Organic Chemistry**  
**CHEM 4396 - Special Topics In Organic Chemistry**  
**CHEM 4397 - Special Topics In Organic Chemistry**  
**CHEM 4398 - Special Topics In Organic Chemistry**  
**CHEM 4399 - Special Topics In Organic Chemistry**  
**CHEM 4406 - Molecular Spectroscopy Lab**  
**CHEM 4411 - Advanced Physical Chem**  
**CHEM 4414 - Quantum Chemistry/Spectroscopy**  
**CHEM 4416 - Molecular Spectroscopy**  
**CHEM 4480 - Special Topics in Physical Chemistry**  
**CHEM 4481 - Special Topics in Physical Chemistry**  
**CHEM 4482 - Special Topics in Physical Chemistry**  
**CHEM 4483 - Special Topics in Physical Chemistry**  
**CHEM 4484 - Special Topics in Physical Chemistry**  
**CHEM 4485 - Special Topics in Physical Chemistry**  
**CHEM 4486 - Special Topics in Physical Chemistry**

**CHEM 4487 - Special Topics in Physical Chemistry**  
**CHEM 4488 - Special Topics in Physical Chemistry**  
**CHEM 4489 - Special Topics in Physical Chemistry**  
**CHEM 4490 - Special Topics in Physical Chemistry**  
**CHEM 4491 - Special Topics in Physical Chemistry**  
**CHEM 4492 - Special Topics in Physical Chemistry**  
**CHEM 4493 - Special Topics in Physical Chemistry**  
**CHEM 4494 - Special Topics in Physical Chemistry**  
**CHEM 4495 - Special Topics in Physical Chemistry**  
**CHEM 4496 - Special Topics in Physical Chemistry**  
**CHEM 4497 - Special Topics in Physical Chemistry**  
**CHEM 4498 - Special Topics in Physical Chemistry**  
**CHEM 4499 - Special Topics in Physical Chemistry**  
**CHEM 4501 - Lab Tech In Biochem**  
**CHEM 4511 - Biochemistry I**  
**CHEM 4512 - Biochemistry II**  
**CHEM 4580 - Special Topics in Biochemistry**  
**CHEM 4581 - Special Topics in Biochemistry**  
**CHEM 4582 - Special Topics in Biochemistry**  
**CHEM 4583 - Special Topics in Biochemistry**  
**CHEM 4584 - Special Topics in Biochemistry**  
**CHEM 4585 - Special Topics in Biochemistry**  
**CHEM 4586 - Special Topics in Biochemistry**  
**CHEM 4587 - Special Topics in Biochemistry**  
**CHEM 4588 - Special Topics in Biochemistry**  
**CHEM 4589 - Special Topics in Biochemistry**  
**CHEM 4590 - Special Topics in Biochemistry**  
**CHEM 4591 - Special Topics in Biochemistry**  
**CHEM 4592 - Special Topics in Biochemistry**



**CHEM 4593 - Special Topics in Biochemistry**

**CHEM 4594 - Special Topics in Biochemistry**

**CHEM 4595 - Special Topics in Biochemistry**

**CHEM 4596 - Special Topics in Biochemistry**

**CHEM 4597 - Special Topics in Biochemistry**

**CHEM 4598 - Special Topics in Biochemistry**

**CHEM 4599 - Special Topics in Biochemistry**

**CHEM 4603 - Materials Synthesis Lab**

**CHEM 4613 - Materials Synthesis**

**CHEM 4614 - Polymer Chemistry**

**CHEM 4615 - Biophysical Chemistry**

**CHEM 4901 - Chemical Research I**

**CHEM 4902 - Chemical Research II**

**CHEM 4903 - Chemical Research III**

**CHEM 4916 - Teaching Chemistry**

**CHEM 4918 - Chemistry Practicum**

**CHEM 4950 - Intro/Organic Lab Tech**

**CHEM 4960 - Intro/Analytical Lab Tech**

**CHEM 4999 - Senior Survey**

## **Child Development and Family Studies**

**CDFS 2100 - Intro Field of Child Dev & Fam St**

**CDFS 2101 - Family/Global Perspective**

**CDFS 3401 - Parent Child Relations**

**CDFS 3410 - Soc Emotion Lrng Early Child**

**CDFS 4101 - Int Curr for Early Learners**

**CDFS 4220 - Understand Childn/Behv/Guide**

**CDFS 4223 - Home/School/Comm Engage**

**CDFS 4230 - Math/Science Early Learning**

**CDFS 4240 - Hospitalized Children and Their Families**

**CDFS 4260 - Child Life: Theory and Practice**

**CDFS 4300 - Play/Therapeutic Interventions**

**CDFS 4910 - Ethics in Early Care and Learning**

**CDFS 4920 - Special Topics in Child Development and Family Studies**

**CDFS 4921 - Special Topics in Child Development and Family Studies**

**CDFS 4922 - Special Topics in Child Development and Family Studies**

**CDFS 4923 - Special Topics in Child Development and Family Studies**

**CDFS 4924 - Special Topics in Child Development and Family Studies**

**CDFS 4925 - Special Topics in Child Development and Family Studies**

**CDFS 4926 - Special Topics in Child Development and Family Studies**

**CDFS 4927 - Special Topics in Child Development and Family Studies**

**CDFS 4928 - Special Topics in Child Development and Family Studies**

**CDFS 4929 - Special Topics in Child Development and Family Studies**

**CDFS 4940 - Workshop in Child Development and Family Studies**

**CDFS 4941 - Workshop in Child Development and Family Studies**

**CDFS 4942 - Workshop in Child Development and Family Studies**

**CDFS 4943 - Workshop in Child Development and Family Studies**

**CDFS 4944 - Workshop in Child Development and Family Studies**

**CDFS 4945 - Workshop in Child Development and Family Studies**

**CDFS 4946 - Workshop in Child Development and Family Studies**

**CDFS 4947 - Workshop in Child Development and Family Studies**

**CDFS 4948 - Workshop in Child Development and Family Studies**

**CDFS 4949 - Workshop in Child Development and Family Studies**

## **Chinese**

**CHIN 1010 - Elementary Chinese I**

**CHIN 1020 - Elementary Chinese II**

**CHIN 2010 - Intermediate Chinese I**

**CHIN 2020 - Intermediate Chinese II**

**CHIN 3301 - Conversation and Composition**

**CHIN 3302 - Conversation and Composition**

**CHIN 3402 - Readings in Chinese Culture**

**CHIN 4301 - Modern Chinese Fiction**

**CHIN 4304 - Advanced Chinese I**

**CHIN 4305 - Advanced Chinese II**

**CHIN 4401 - Business Chinese**

**CHIN 4501 - Intro to Chinese Linguistics**

**CHIN 4780 - Individual Studies**

**CHIN 4791 - Special Topics in Chinese Literature, Language, or Civilization.**

**CHIN 4792 - Special Topics in Chinese Literature, Language, or Civilization.**

**CHIN 4793 - Special Topics in Chinese Literature, Language, or Civilization.**

**CHIN 4794 - Special Topics in Chinese Literature, Language, or Civilization.**

**CHIN 4795 - Special Topics in Chinese Literature, Language, or Civilization.**

**CHIN 4796 - Special Topics in Chinese Literature, Language, or Civilization.**

**CHIN 4797 - Special Topics in Chinese Literature, Language, or Civilization.**

**CHIN 4798 - Special Topics in Chinese Literature, Language, or Civilization.**

**CHIN 4799 - Special Topics in Chinese Literature, Language, or Civilization.**

## **City and Regional Planning**

**PLAN 3451 - Introduction to Planning**

**PLAN 4002 - Urban Food Security**

**PLAN 4003 - Community Economic Development**

**PLAN 4004 - Community Organizing**

**PLAN 4201 - Urbanization and Environment**

**PLAN 4261 - Plan Sustainable CitiesRegions**

**PLAN 4551 - Urban Planning Studio**

**PLAN 4800 - Special Topics in City and Regional Planning**

**PLAN 4801 - Special Topics in City and Regional Planning**

**PLAN 4802 - Special Topics in City and Regional Planning**

**PLAN 4803 - Special Topics in City and Regional Planning**

**PLAN 4804 - Special Topics in City and Regional Planning**

**PLAN 4805 - Special Topics in City and Regional Planning**

**PLAN 4806 - Special Topics in City and Regional Planning**

**PLAN 4807 - Special Topics in City and Regional Planning**

**PLAN 4808 - Special Topics in City and Regional Planning**

**PLAN 4809 - Special Topics in City and Regional Planning**

**PLAN 4810 - Special Topics in City and Regional Planning**

## **Civil Engineering**

**CIVL 1101 - Civil Engr Measurements**

**CIVL 1112 - Civil Engr Analysis**

**CIVL 2101 - Civil Engr Visualization**

**CIVL 2107 - Civil Engr Computation**

**CIVL 2131 - Statics**

**CIVL 3103 - Approx/Uncertainty in Engr**

**CIVL 3121 - Structural Analysis I**

**CIVL 3131 - Design of Steel Structures**

**CIVL 3137 - Civil Engr Materials**

**CIVL 3140 - Environmental Systems Engr**

**CIVL 3161 - Transportation Systems Engr**

**CIVL 3180 - Civil Engr Hydraulics**

**CIVL 3181 - Hydraulics and Hydrology**

**CIVL 3182 - Hydraulics and Hydrology Lab**

**CIVL 3322 - Mechanics of Materials**

**CIVL 3325 - Mechanics of Materials Lab**

**CIVL 4111 - Engineering Economics**

**CIVL 4122 - Structural Analysis II**

**CIVL 4131 - Intermediate Steel Design**

**CIVL 4135 - Reinforced Concrete Design**

**CIVL 4136 - Inter Reinforced Concrete Dsgn**

**CIVL 4140 - Environmental Engr Design**

**CIVL 4143 - Physical/Chemical Treatment**

**CIVL 4144 - Biological Wastewater Treatmnt**

**CIVL 4149 - Pump Station Design**

**CIVL 4151 - Soil Mechanics**

**CIVL 4152 - Applied Soil Mechanics**

**CIVL 4155 - Pavement Design and Evaluation**

**CIVL 4162 - Traffic Engineering**

**CIVL 4163 - Airport Planning and Design**

**CIVL 4164 - Route Location and Design**

**CIVL 4171 - Construction Engineering**

**CIVL 4180 - Adv Hydrology/Hydraulics**

**CIVL 4190 - Water Resource Plan/Dsgn**

**CIVL 4191 - Civil Engr Project**

**CIVL 4195 - Professional Practice/Civil En**

**CIVL 4197 - Review/Engineering Fundamental**

**CIVL 4199 - Civil Engr Design**

**CIVL 4211 - Physical Hydrology**

**CIVL 4900 - Special Topics in Civil Engineering**

**CIVL 4901 - Special Topics in Civil Engineering**

**CIVL 4902 - Special Topics in Civil Engineering**

**CIVL 4903 - Special Topics in Civil Engineering**

**CIVL 4904 - Special Topics in Civil Engineering**

**CIVL 4905 - Special Topics in Civil Engineering**

**CIVL 4906 - Special Topics in Civil Engineering**

**CIVL 4907 - Special Topics in Civil Engineering**

**CIVL 4908 - Special Topics in Civil Engineering**

**CIVL 4909 - Special Topics in Civil Engineering**

**CIVL 4910 - Special Topics in Civil Engineering**

**CIVL 4999 - Honors Thesis**

## **Classics**

**CLAS 2481 - Mythology**

**CLAS 3021 - Medical Terminology**

**CLAS 3413 - Greek Lit in Translation**

**CLAS 3414 - Roman Lit in Translation**

**CLAS 4780 - Individual Study Classics**

**CLAS 4791 - Studies in Classics**

## **College of Arts and Sciences**

**CAS 4800 - Internship**

## **Communication**

**COMM 1010 - Survey of Mass Communication**

**COMM 1851 - Introduction to Film**

**COMM 2020 - TV/Video/Radio Production Lab**

**COMM 2100 - Communication Inquiry**

**COMM 2101 - Media and Info Literacy**

**COMM 2381 - Oral Communication**

**COMM 3001 - Rhetoric/Civic Controversy**

**COMM 3003 - Television and Culture**

**COMM 3010 - Integrated Corp Comm**

**COMM 3012 - Health Communication**

**COMM 3100 - Communication Ethics**

**COMM 3321 - Argumentation and Advocacy**

**COMM 3322 - Theories of Persuasion**

**COMM 3330 - Communication Research Methods**

**COMM 3341 - Discussion**

**COMM 3342 - Communication and Leadership**

**COMM 3360 - Rhetoric/Pop Culture**

**COMM 3361 - African-American Rhetoric**

**COMM 3400 - Storytelling and Life**

**COMM 3560 - Intercultural Communtn**

**COMM 3800 - Media Industries**

**COMM 3801 - TV Production Technique/JOUR**

**COMM 3820 - Broadcast Prep and Performance**

**COMM 3821 - Audio Narratives**

**COMM 3823 - Motion Picture Prod I**

**COMM 3824 - Motion Picture Prod II**

**COMM 3842 - TV Studio Production I**

**COMM 4011 - Communication in Organizations**

**COMM 4013 - Political Communication**

**COMM 4014 - Communication on the Internet**

**COMM 4015 - Health Literacy**

**COMM 4016 - Public Health Campaigns**

**COMM 4210 - Special Topics In Communication Studies**

**COMM 4211 - Special Topics In Communication Studies**

**COMM 4212 - Special Topics In Communication Studies**

**COMM 4213 - Special Topics In Communication Studies**

**COMM 4214 - Special Topics In Communication Studies**

**COMM 4215 - Special Topics In Communication Studies**

**COMM 4216 - Special Topics In Communication Studies**

**COMM 4217 - Special Topics In Communication Studies**

**COMM 4218 - Special Topics In Communication Studies**

**COMM 4219 - Special Topics In Communication Studies**

**COMM 4220 - Special Topics in Film**

**COMM 4221 - Special Topics in Film**

**COMM 4222 - Special Topics in Film**

**COMM 4223 - Special Topics in Film**

**COMM 4224 - Special Topics in Film**

**COMM 4225 - Special Topics in Film**

**COMM 4226 - Special Topics in Film**

**COMM 4227 - Special Topics in Film**

**COMM 4228 - Special Topics in Film**

**COMM 4229 - Special Topics in Film**

**COMM 4340 - Listening**

**COMM 4341 - Interpersonal Communication**

**COMM 4342 - Small Group Communication**

**COMM 4360 - American Eloquence**

**COMM 4363 - Dialogue**

**COMM 4364 - Voices/American Women**

**COMM 4365 - Place/Community/Communication**

**COMM 4373 - Interracial Communication**

**COMM 4374 - Studies in Communication Arts**

**COMM 4375 - Intercultural Communication**

**COMM 4380 - Communication and Conflict**

**COMM 4381 - Senior Capstone**

**COMM 4400 - Contemplative Communication**

**COMM 4410 - Conflict Resolution and Negot**

**COMM 4802 - Internship**

**COMM 4811 - Media 2.0**

**COMM 4822 - Audio Production Film/Video**

**COMM 4824 - Cinema/Videography**



**COMM 4825 - Editing/Post Production**  
**COMM 4841 - Television Workshop**  
**COMM 4842 - TV Studio Production II**  
**COMM 4850 - Film History I**  
**COMM 4851 - Film History II**  
**COMM 4853 - Documentary Form Film**  
**COMM 4854 - Documentary Form Broadcasting**  
**COMM 4856 - Gender and Film**  
**COMM 4858 - Contemporary Cinema**  
**COMM 4859 - Monster Films**  
**COMM 4860 - Reality TV**  
**COMM 4891 - Producing/Directing Film/Video**  
**COMM 4892 - Film/Video Production**  
**COMM 4910 - Public Relations Campaign**  
**COMM 4960 - Documentary Writing**  
**COMM 4970 - Screenwriting**  
**COMM 4980 - Honors Studies**  
**COMM 4982 - Honors Seminar**  
**COMM 4993 - Senior Practicum**  
**COMM 4999 - Senior Honors Thesis**

## **Communication and Fine Arts**

**CCFA 3001 - Arts In Education**  
**CCFA 4001 - Arts/Schools Institute**  
**CCFA 4100 - CFA Internship**

## **Computer Science**

**COMP 1100 - Intro Video Game Programming**  
**COMP 1800 - Problem Solving/Computers**

**COMP 1900 - CS1:Intro Comp Science**  
**COMP 1950 - Ethics and Professional Dev**  
**COMP 2150 - CS2: OOP and Data Structures**  
**COMP 2700 - Discrete Structures**  
**COMP 3050 - Programming Languages**  
**COMP 3115 - Database Process and Design**  
**COMP 3150 - Programming in C/C++**  
**COMP 3160 - Adv Data Struct/Algorithm**  
**COMP 3410 - Computer Org/Architecture**  
**COMP 3825 - Network/Info Assurance**  
**COMP 4001 - Computer Programming**  
**COMP 4005 - Web Design/Development**  
**COMP 4014 - Intro Java Programming**  
**COMP 4030 - Design/Analysis Algorithms**  
**COMP 4040 - Programming Languages**  
**COMP 4041 - Intro To Compilers**  
**COMP 4081 - Software Engineering**  
**COMP 4118 - Introduction to Data Mining**  
**COMP 4242 - Intro Computer Graphics**  
**COMP 4270 - Operating Systems**  
**COMP 4272 - System Admin and Unix Prog**  
**COMP 4302 - Web Service/Internet**  
**COMP 4310 - Wireless Mobile Comp**  
**COMP 4410 - Computer Security**  
**COMP 4420 - Wireless and Mobile Security**  
**COMP 4430 - Digital Forensics**  
**COMP 4432 - Secure Coding and Testing**  
**COMP 4601 - Models of Computation**  
**COMP 4720 - Intro Artificial Intelligence**

**COMP 4730 - Expert Systems**

**COMP 4731 - Data Visualization**

**COMP 4745 - Intro to Machine Learning**

**COMP 4882 - Capstone Software Proj**

**COMP 4901 - Ind Study Computer Science**

**COMP 4911 - Internship Computer Science**

**COMP 4920 - Wireless and Mobile Security**

**COMP 4930 - Digital Forensics**

**COMP 4932 - Secure Coding and Testing**

**COMP 4980 - Senior Thesis**

**COMP 4990 - Topics in Computer Science**

**COMP 4991 - Topics in Computer Science**

**COMP 4992 - Topics in Computer Science**

**COMP 4993 - Topics in Computer Science**

**COMP 4994 - Topics in Computer Science**

**COMP 4995 - Topics in Computer Science**

**COMP 4996 - Topics in Computer Science**

**COMP 4997 - Topics in Computer Science**

**COMP 4998 - Topics in Computer Science**

**COMP 4999 - Topics in Computer Science**

## **Counseling and Personnel Services**

**COUN 1661 - Career Development**

**COUN 4002 - Independent Study**

**COUN 4010 - Special Topics in Counseling and Personnel Services**

**COUN 4011 - Special Topics in Counseling and Personnel Services**

**COUN 4012 - Special Topics in Counseling and Personnel Services**

**COUN 4013 - Special Topics in Counseling and Personnel Services**

**COUN 4014 - Special Topics in Counseling and Personnel Services**

**COUN 4015 - Special Topics in Counseling and Personnel Services**

**COUN 4016 - Special Topics in Counseling and Personnel Services**

**COUN 4017 - Special Topics in Counseling and Personnel Services**

**COUN 4018 - Special Topics in Counseling and Personnel Services**

**COUN 4019 - Special Topics in Counseling and Personnel Services**

**COUN 4020 - Special Topics in Counseling and Personnel Services**

**COUN 4021 - Special Topics in Counseling and Personnel Services**

**COUN 4022 - Special Topics in Counseling and Personnel Services**

**COUN 4023 - Special Topics in Counseling and Personnel Services**

**COUN 4024 - Special Topics in Counseling and Personnel Services**

**COUN 4025 - Special Topics in Counseling and Personnel Services**

**COUN 4026 - Special Topics in Counseling and Personnel Services**

**COUN 4027 - Special Topics in Counseling and Personnel Services**

**COUN 4028 - Special Topics in Counseling and Personnel Services**

**COUN 4029 - Special Topics in Counseling and Personnel Services**

**COUN 4611 - Intro to Counseling**

**COUN 4621 - Human Interactions**

**COUN 4781 - Strategy/Crisis Intervention**

**COUN 4783 - Alcohol/Drug Abuse Services**

**COUN 4901 - Princ/Tech/Rehab Counseling**

**COUN 4913 - Medical/Psyc Aspects/Rehab**

**COUN 4921 - Vocational Dev/Occupation Info**

## **Criminology and Criminal Justice**

**CJUS 1100 - Intro/Criminal Justice**

**CJUS 2110 - Comparative Justice System**

**CJUS 2120 - Contemporary Issues CJUS**

**CJUS 2140 - Crime/Public Policy/CJ System**

**CJUS 2226 - Introduction to Police**

**CJUS 2326 - Introduction to Courts**

**CJUS 2426 - Intro/Corrections in America**

**CJUS 3129 - Statistical Methods/CJUS**

**CJUS 3130 - Research Methods CJUS**

**CJUS 3226 - Police in America**

**CJUS 3326 - Courts in America**

**CJUS 3426 - Corrections in America**

**CJUS 3510 - Law and Society**

**CJUS 3521 - Constitutional Crmnl Procedure**

**CJUS 3540 - Criminology**

**CJUS 3542 - Crime/Criminal Behavior**

**CJUS 4010 - Special Topics in Criminal Justice**

**CJUS 4011 - Special Topics in Criminal Justice**

**CJUS 4012 - Special Topics in Criminal Justice**

**CJUS 4013 - Special Topics in Criminal Justice**

**CJUS 4014 - Special Topics in Criminal Justice**

**CJUS 4015 - Special Topics in Criminal Justice**

**CJUS 4016 - Special Topics in Criminal Justice**

**CJUS 4017 - Special Topics in Criminal Justice**

**CJUS 4018 - Special Topics in Criminal Justice**

**CJUS 4019 - Special Topics in Criminal Justice**

**CJUS 4100 - Ind Dir Studies**

**CJUS 4110 - Advanced Application in CJUS**

**CJUS 4126 - CJUS Admin and Mgmt**

**CJUS 4130 - Ethical Dilemmas/CJUS**

**CJUS 4150 - Internship Criminal Justice**

**CJUS 4152 - Drug Misuse and Abuse**

**CJUS 4160 - Forensic Sciences**

**CJUS 4170 - Prevention/Deterrence Crime**

**CJUS 4180 - Corporate/White Collar Crime**  
**CJUS 4190 - Terrorism Soc/Legl Prsp**  
**CJUS 4233 - Organized Crime**  
**CJUS 4235 - Security Management**  
**CJUS 4460 - Race/Ethnicity/Gender/America**  
**CJUS 4520 - Substantive Criminal Law**  
**CJUS 4521 - Foundation/Criminal Process**  
**CJUS 4530 - Prin Evidence/Proof**  
**CJUS 4531 - Issues/Constitutional Rights**  
**CJUS 4533 - Juvenile Delinq Theory/Process**  
**CJUS 4535 - Capital Punishment/America**  
**CJUS 4542 - Victimology**  
**CJUS 4999 - Senior Honors Thesis**

## **Dance**

**DANC 1151 - Introduction to Dance**  
**DANC 1821 - Contemporary Dance I**  
**DANC 1825 - Ballet I**  
**DANC 1827 - Jazz Dance I**  
**DANC 1831 - Tap Dance I**  
**DANC 2101 - Dance Improvisation**  
**DANC 2821 - Contemporary Dance II**  
**DANC 2825 - Ballet II**  
**DANC 2827 - Jazz Dance II**  
**DANC 3101 - History of Dance**  
**DANC 3201 - Dance Movement Analysis**  
**DANC 3825 - Ballet III**  
**DANC 3826 - Musical Theatre Dance I**  
**DANC 3827 - Musical Theatre Dance II**

**DANC 3829 - Adv Dance Techniques**  
**DANC 4000 - Special Topics in Dance**  
**DANC 4001 - Special Topics in Dance**  
**DANC 4002 - Special Topics in Dance**  
**DANC 4003 - Special Topics in Dance**  
**DANC 4004 - Special Topics in Dance**  
**DANC 4005 - Special Topics in Dance**  
**DANC 4006 - Special Topics in Dance**  
**DANC 4007 - Special Topics in Dance**  
**DANC 4008 - Special Topics in Dance**  
**DANC 4009 - Special Topics in Dance**  
**DANC 4010 - Special Topics in Dance**  
**DANC 4011 - Special Topics in Dance**  
**DANC 4012 - Special Topics in Dance**  
**DANC 4013 - Special Topics in Dance**  
**DANC 4014 - Special Topics in Dance**  
**DANC 4015 - Special Topics in Dance**  
**DANC 4016 - Special Topics in Dance**  
**DANC 4017 - Special Topics in Dance**  
**DANC 4018 - Special Topics in Dance**  
**DANC 4019 - Special Topics in Dance**  
**DANC 4020 - Special Topics in Dance**  
**DANC 4021 - Special Topics in Dance**  
**DANC 4022 - Special Topics in Dance**  
**DANC 4023 - Special Topics in Dance**  
**DANC 4024 - Special Topics in Dance**  
**DANC 4025 - Special Topics in Dance**  
**DANC 4026 - Special Topics in Dance**  
**DANC 4027 - Special Topics in Dance**

**DANC 4028 - Special Topics in Dance**

**DANC 4029 - Special Topics in Dance**

**DANC 4101 - Dance Repertory**

**DANC 4201 - Dance Composition**

**DANC 4202 - Adv Dance Composition**

**DANC 4301 - Directed Studies Dance**

**DANC 4402 - Dance Ed/Diverse Setting**

**DANC 4404 - Dance Teaching Methods**

## **Early Childhood Education**

**ECED 1310 - Intro to Early Childhood Ed**

**ECED 2030 - Infant/Toddler Care**

**ECED 2130 - Clinical Practicum I**

**ECED 2310 - Safe/Healthy Learning Environ**

**ECED 2312 - Administration/Child Care Cent**

**ECED 2315 - Early Childhood Curriculum**

**ECED 2320 - Infant/Toddler Child Develop**

**ECED 2330 - Infant/Toddler Care**

**ECED 2340 - Family Dynamics/Comm Involv**

**ECED 2360 - Development/Exceptional Child**

**ECED 2370 - Developmental Assess Methods**

**ECED 2380 - Language/Literacy/Early Child**

**ECED 2385 - Math/Science/Early Childhood**

**ECED 2390 - Creative Development**

**ECED 3130 - Clinical Practicum I**

**ECED 3555 - Obsrv/Assmnt Infant/Erly Ch**

**ECED 4005 - Fam/Sch Collaboration/ECED**

**ECED 4500 - Emergent Literacy/Lang Dev**

**ECED 4510 - Early Child Prgms/Pr**



**ECED 4515 - Teach/Lrng Erly Chld Ed**  
**ECED 4520 - Plan/Facilitn Social Lrng/Dev**  
**ECED 4525 - Practicum Early Chld Tch/Lrn**  
**ECED 4530 - Plan/Facitn Math/Science Lrng**  
**ECED 4540 - Pln/Fclt Infant/Toddler Dev**

## **Earth Sciences**

**ESCI 1010 - Weather and Climate**  
**ESCI 1020 - Landforms**  
**ESCI 1040 - Physical Geology**  
**ESCI 1050 - The Earth Through Time**  
**ESCI 1100 - Biol Anth & Prehistory**  
**ESCI 1103 - The Human Planet**  
**ESCI 1301 - Survey of World Regions**  
**ESCI 1401 - Intro/Cultural Geography**  
**ESCI 2300 - Great Discoveries in Archaeology**  
**ESCI 2301 - Fundamentals of Archaeology**  
**ESCI 3100 - Seminar in Emergency Management**  
**ESCI 3131 - Severe Weather**  
**ESCI 3200 - People/Culture World**  
**ESCI 3211 - Invertebrate Paleontology**  
**ESCI 3221 - Principles/Conservation**  
**ESCI 3311 - Mineralogy/Petrology**  
**ESCI 3451 - Intro/Urban Planning**  
**ESCI 3602 - Introduction to Geophysics**  
**ESCI 3712 - Sedimentology/Stratigraphy**  
**ESCI 3802 - Oceanography**  
**ESCI 4122 - Soils and Soil Processes**  
**ESCI 4201 - Urbanization/Environment**

**ESCI 4202 - Geomorphology**

**ESCI 4211 - Physical Hydrology**

**ESCI 4213 - Field Methods/Hydrology**

**ESCI 4214 - Climatology**

**ESCI 4215 - Physical Climatology**

**ESCI 4216 - Synoptic Meteorology**

**ESCI 4231 - Water Resources**

**ESCI 4241 - Biogeog/GIS Analyses/Ecology**

**ESCI 4251 - Environmental Hazards**

**ESCI 4252 - Global Environmental Change**

**ESCI 4261 - Plan Sustainable Cities/Region**

**ESCI 4301 - Archaeology/North America**

**ESCI 4307 - Thematic Studies/China**

**ESCI 4308 - Special Topics in Regional Geography**

**ESCI 4309 - Special Topics in Regional Geography**

**ESCI 4310 - Special Topics in Regional Geography**

**ESCI 4311 - Special Topics in Regional Geography**

**ESCI 4312 - Special Topics in Regional Geography**

**ESCI 4325 - Archaeol Fld/Lab Techn**

**ESCI 4332 - Intro to Geochemistry**

**ESCI 4335 - Analysis of Stone Artifacts**

**ESCI 4341 - Aqueous Geochemistry**

**ESCI 4350 - Archaeology of Collapse**

**ESCI 4352 - Old World Archaeology**

**ESCI 4365 - Cultural Resource Mgmt**

**ESCI 4370 - Special Topics in Archaeology**

**ESCI 4371 - Special Topics in Archaeology**

**ESCI 4372 - Special Topics in Archaeology**

**ESCI 4373 - Special Topics in Archaeology**

**ESCI 4374 - Special Topics in Archaeology**  
**ESCI 4375 - Special Topics in Archaeology**  
**ESCI 4376 - Special Topics in Archaeology**  
**ESCI 4377 - Special Topics in Archaeology**  
**ESCI 4378 - Special Topics in Archaeology**  
**ESCI 4379 - Special Topics in Archaeology**  
**ESCI 4430 - Economic Geography**  
**ESCI 4431 - Urban Geography**  
**ESCI 4443 - Transportation Planning**  
**ESCI 4502 - Computer Cartography**  
**ESCI 4511 - Remote Sensing/Environ**  
**ESCI 4512 - Structural Geology**  
**ESCI 4515 - Geographic Info Science**  
**ESCI 4521 - Quantitative Methods**  
**ESCI 4525 - Adv Geographic Info Science**  
**ESCI 4526 - Advanced Remote Sensing**  
**ESCI 4531 - Field Methods/Geography**  
**ESCI 4541 - Geography/Field Studies**  
**ESCI 4551 - Urban Planning Studio**  
**ESCI 4610 - Special Topics In Geography**  
**ESCI 4611 - Special Topics In Geography**  
**ESCI 4612 - Special Topics In Geography**  
**ESCI 4613 - Special Topics In Geography**  
**ESCI 4614 - Special Topics In Geography**  
**ESCI 4615 - Special Topics In Geography**  
**ESCI 4616 - Special Topics In Geography**  
**ESCI 4617 - Special Topics In Geography**  
**ESCI 4618 - Special Topics In Geography**  
**ESCI 4619 - Special Topics In Geography**

**ESCI 4621 - Investigations In GEOG**

**ESCI 4622 - Geology Field Camp**

**ESCI 4680 - Applied Archaeology/Museums**

**ESCI 4700 - Earth Science Internshp**

**ESCI 4701 - ESCI Field Excursions**

**ESCI 4722 - Investigation In ESCI**

**ESCI 4731 - Senior Thesis**

**ESCI 4801 - Seminar in Applied Geography**

## **Economics**

**ECON 2010 - Intro to Macroeconomics**

**ECON 2020 - Intro to Microeconomics**

**ECON 2900 - Experiential Learning Credit**

**ECON 3020 - Special Topics in Economics**

**ECON 3021 - Special Topics in Economics**

**ECON 3022 - Special Topics in Economics**

**ECON 3023 - Special Topics in Economics**

**ECON 3024 - Special Topics in Economics**

**ECON 3025 - Special Topics in Economics**

**ECON 3026 - Special Topics in Economics**

**ECON 3027 - Special Topics in Economics**

**ECON 3028 - Special Topics in Economics**

**ECON 3029 - Special Topics in Economics**

**ECON 3123 - Sports Economics**

**ECON 3210 - Labor Economics**

**ECON 3310 - Microeconomic Theory**

**ECON 3320 - Macroeconomic Theory**

**ECON 3610 - Money and Banking**

**ECON 3900 - Experiential Learning Credit**

**ECON 4112 - Organizational Econ**  
**ECON 4120 - Economic Forecasting**  
**ECON 4210 - Public Economics**  
**ECON 4220 - Urban Economics**  
**ECON 4230 - Ecological Economics**  
**ECON 4240 - Economics of Vice**  
**ECON 4250 - Econ Poverty/Discrimination**  
**ECON 4340 - Comparative Economic Systems**  
**ECON 4350 - International Econ**  
**ECON 4351 - International Monetary Theory/Policy**  
**ECON 4512 - Behavioral Economics**  
**ECON 4550 - Game Theory/Strategic Analysis**  
**ECON 4560 - Contemporary Issues in Econ**  
**ECON 4561 - Economics of Financial Crisis**  
**ECON 4740 - Health Care Economics**  
**ECON 4760 - Special Topics in Economics**  
**ECON 4761 - Special Topics in Economics**  
**ECON 4762 - Special Topics in Economics**  
**ECON 4763 - Special Topics in Economics**  
**ECON 4764 - Special Topics in Economics**  
**ECON 4765 - Special Topics in Economics**  
**ECON 4766 - Special Topics in Economics**  
**ECON 4767 - Special Topics in Economics**  
**ECON 4768 - Special Topics in Economics**  
**ECON 4769 - Special Topics in Economics**  
**ECON 4810 - Quant Economics Analysis**  
**ECON 4820 - Econometrics**  
**ECON 4910 - Independent Study in Economics**  
**ECON 4911 - Internship in Economics**

**ECON 4996 - Honors Thesis in Economics**

## **Educational Psychology and Research**

**EDPR 2111 - Development Across Lifespan**

**EDPR 3121 - Learning Process/Assessment**

**EDPR 3302 - Child/Adolescent Development**

**EDPR 4008 - Prob: Ed Psych/Research**

**EDPR 4301 - Early Child Dev/Begin Teacher**

**EDPR 4541 - Fundmntl/Applied Stat Method**

## **Educational Services**

**EDSV 4750 - Problems/Ed Services**

**EDSV 4850 - Practicum/Training Settings**

**EDSV 4950 - Internship/Training Settings**

## **Electrical and Computer Engineering**

**EECE 1202 - Elec/Comp Engr Concepts**

**EECE 1206 - Computer Engr Computations**

**EECE 1207 - Electrical Engr Computations**

**EECE 1208 - Intro EECE Lab**

**EECE 2201 - Circuit Analysis I**

**EECE 2203 - Circuit Analysis Lab**

**EECE 2207 - Engineering Math Applications**

**EECE 2222 - Digital Circuit Design**

**EECE 2281 - Instrumentation Lab**

**EECE 2283 - Electrical Engr/Instrumntation**

**EECE 3201 - Circuit Analysis II**

**EECE 3203 - Signals and Systems I**

**EECE 3204 - Signals and Systems II**

**EECE 3211 - Electronics I**

**EECE 3212 - Electronics II**  
**EECE 3213 - Electronics I Lab**  
**EECE 3221 - Matrix Computer Methods**  
**EECE 3240 - Electromagnetic Field Theory**  
**EECE 3270 - Intro to Microprocessor**  
**EECE 4081 - Software Engineering**  
**EECE 4201 - Energy Conversion**  
**EECE 4202 - Electrical Power Systems**  
**EECE 4203 - Energy Conversion Lab**  
**EECE 4204 - Power Distribution System**  
**EECE 4213 - Antenna Theory/Design**  
**EECE 4214 - Electromagnetic Fields Lab**  
**EECE 4215 - Applied Electromagnetic Fields**  
**EECE 4221 - Electronics III**  
**EECE 4222 - Digital Logic/Computer Design**  
**EECE 4230 - Data Communication System**  
**EECE 4231 - Communication Theory**  
**EECE 4232 - Discrete Signal Process**  
**EECE 4235 - Probabilistic System Analysis**  
**EECE 4241 - Solid State Physicl Electronics**  
**EECE 4242 - Electro-Optics**  
**EECE 4243 - Linear Optical Systems**  
**EECE 4251 - Control System Engr**  
**EECE 4252 - Digital Control Systems**  
**EECE 4253 - Control Systems Lab**  
**EECE 4254 - Digital Control System Lab**  
**EECE 4271 - Computer Interfacing**  
**EECE 4272 - Engineering Software**  
**EECE 4273 - Database Engineering**

**EECE 4275 - Network Programming**

**EECE 4276 - Adv Network Programming**

**EECE 4277 - DSP Microprocessors**

**EECE 4278 - Computer Organization**

**EECE 4279 - Professional Development**

**EECE 4280 - Electricl/Computer Engr Design**

**EECE 4710 - Computer Architecture**

**EECE 4711 - Fault Tolerant Computer Des**

**EECE 4712 - Embedded Systems**

**EECE 4720 - Intro Artificial Intelligence**

**EECE 4730 - Expert Systems**

**EECE 4731 - Data Visualization**

**EECE 4900 - Special Topics in Electrical and Computer Engineering**

**EECE 4901 - Special Topics in Electrical and Computer Engineering**

**EECE 4902 - Special Topics in Electrical and Computer Engineering**

**EECE 4903 - Special Topics in Electrical and Computer Engineering**

**EECE 4904 - Special Topics in Electrical and Computer Engineering**

**EECE 4905 - Special Topics in Electrical and Computer Engineering**

**EECE 4906 - Special Topics in Electrical and Computer Engineering**

**EECE 4907 - Special Topics in Electrical and Computer Engineering**

**EECE 4908 - Special Topics in Electrical and Computer Engineering**

**EECE 4909 - Special Topics in Electrical and Computer Engineering**

**EECE 4910 - Honors Special Topics**

**EECE 4911 - Honors Special Topics**

**EECE 4912 - Honors Special Topics**

**EECE 4913 - Honors Special Topics**

**EECE 4914 - Honors Special Topics**

**EECE 4915 - Honors Special Topics**

**EECE 4916 - Honors Special Topics**



EECE 4917 - Honors Special Topics  
 EECE 4918 - Honors Special Topics  
 EECE 4919 - Honors Special Topics  
 EECE 4991 - Electrical/Computer Projects I  
 EECE 4992 - Electrical/Computer Project II  
 EECE 4993 - Research Studies  
 EECE 4999 - Honors Thesis

## **Elementary Education**

ELED 3242 - Teaching/Learning Elem School  
 ELED 3251 - Method/Teach Math/Elem Grades  
 ELED 3261 - Method/Teach/Science/Elem Grde  
 ELED 3271 - Method/Social Studies/Elem Grd  
 ELED 3281 - Residency I/Elem Teach Pract  
 ELED 4351 - Teaching/Learning K-8  
 ELED 4352 - Curriculum and Methods K-8  
 ELED 4353 - Thematic Instruction K-8  
 ELED 4354 - Practicum Integrative Urb Env'n

## **Emergency Management**

EMGT 3100 - Seminar in Emergency Management  
 EMGT 4000 - Internship

## **Engineering**

ENGR 1009 - Prep Math for Engineering  
 ENGR 1010 - Engineering Problem Solving  
 ENGR 1011 - Special Topics in Engineering.  
 ENGR 1012 - Special Topics in Engineering.  
 ENGR 1013 - Special Topics in Engineering.  
 ENGR 1014 - Special Topics in Engineering.

**ENGR 1015 - Special Topics in Engineering.**  
**ENGR 1016 - Special Topics in Engineering.**  
**ENGR 1017 - Special Topics in Engineering.**  
**ENGR 1018 - Special Topics in Engineering.**  
**ENGR 1019 - Special Topics in Engineering.**  
**ENGR 1020 - Special Topics in Engineering.**  
**ENGR 1021 - Special Topics in Engineering.**  
**ENGR 1022 - Special Topics in Engineering.**  
**ENGR 1023 - Special Topics in Engineering.**  
**ENGR 1024 - Special Topics in Engineering.**  
**ENGR 1025 - Special Topics in Engineering.**  
**ENGR 4001 - Engineering Work Experience**  
**ENGR 4901 - Special Topics in Engineering**

## **English**

**ENGL 102 - English-2nd Language**  
**ENGL 103 - English-2nd Language**  
**ENGL 1001 - English as Second Language I**  
**ENGL 1002 - English as Second Language II**  
**ENGL 1010 - English Composition**  
**ENGL 1011 - Composition Workshop**  
**ENGL 1020 - English Comp/Analysis**  
**ENGL 1030 - Literary Studies Abroad**  
**ENGL 1110 - Research Writing Method**  
**ENGL 2201 - Literary Heritage**  
**ENGL 2202 - Lit Heritage: African-American**  
**ENGL 3100 - Special Topics in Literature**  
**ENGL 3101 - Special Topics in Literature**  
**ENGL 3102 - Special Topics in Literature**

**ENGL 3103 - Special Topics in Literature**  
**ENGL 3104 - Special Topics in Literature**  
**ENGL 3105 - Special Topics in Literature**  
**ENGL 3106 - Special Topics in Literature**  
**ENGL 3107 - Special Topics in Literature**  
**ENGL 3108 - Special Topics in Literature**  
**ENGL 3109 - Special Topics in Literature**  
**ENGL 3110 - Special Topics in Literature**  
**ENGL 3111 - Special Topics in Literature**  
**ENGL 3112 - Special Topics in Literature**  
**ENGL 3113 - Special Topics in Literature**  
**ENGL 3114 - Special Topics in Literature**  
**ENGL 3115 - Special Topics in Literature**  
**ENGL 3116 - Special Topics in Literature**  
**ENGL 3117 - Special Topics in Literature**  
**ENGL 3118 - Special Topics in Literature**  
**ENGL 3119 - Special Topics in Literature**  
**ENGL 3210 - British Lit to 1750**  
**ENGL 3212 - 16th Century British Lit**  
**ENGL 3213 - 17th Century British Lit**  
**ENGL 3214 - 18th Century British Lit**  
**ENGL 3215 - Shakespeare I**  
**ENGL 3216 - Topics in Medieval Literature**  
**ENGL 3220 - British Lit since 1750**  
**ENGL 3221 - British Lit Romantic Age**  
**ENGL 3222 - British Lit/Victorian Era**  
**ENGL 3224 - 20th Century British Lit**  
**ENGL 3325 - Af/Am Lit thru Harlem Ren**  
**ENGL 3326 - Af/Am Lit since Harlem Ren**

**ENGL 3327 - American Literature to 1865**  
**ENGL 3328 - American Literature since 1865**  
**ENGL 3329 - Major Authors in American Lit**  
**ENGL 3330 - Place/Time in American Lit**  
**ENGL 3401 - Children's Literature**  
**ENGL 3402 - Science Fiction and Fantasy**  
**ENGL 3403 - Mythic Backgrounds in Lit**  
**ENGL 3404 - Studies/Popular Texts**  
**ENGL 3500 - Practical English Grammar**  
**ENGL 3501 - Modern English Grammar**  
**ENGL 3511 - Intro to Linguistics**  
**ENGL 3521 - The American Language**  
**ENGL 3601 - Technical and Profess Writing**  
**ENGL 3602 - Professional Editing**  
**ENGL 3603 - Engineering Communications**  
**ENGL 3604 - Persuasive Writing**  
**ENGL 3606 - Poetry Writing**  
**ENGL 3607 - Fiction Writing**  
**ENGL 3608 - Creative Nonfiction Writing**  
**ENGL 3701 - Lit Criticism/Theory**  
**ENGL 4001 - Senior Honor Seminar I**  
**ENGL 4101 - Special Topics in English**  
**ENGL 4102 - Special Topics in English**  
**ENGL 4103 - Special Topics in English**  
**ENGL 4104 - Special Topics in English**  
**ENGL 4105 - Special Topics in English**  
**ENGL 4106 - Special Topics in English**  
**ENGL 4107 - Special Topics in English**  
**ENGL 4108 - Special Topics in English**

**ENGL 4109 - Special Topics in English**  
**ENGL 4110 - Special Topics in English**  
**ENGL 4230 - Chaucer/Medieval World**  
**ENGL 4234 - Milton**  
**ENGL 4237 - Shakespeare II**  
**ENGL 4243 - Studies in British Literature**  
**ENGL 4323 - Southern Literature**  
**ENGL 4346 - Studies in Amer Literature**  
**ENGL 4372 - Af/Am Author/Harlem Ren**  
**ENGL 4373 - Af/Am Author since Harlem Ren**  
**ENGL 4374 - African-Amer Lit Movements**  
**ENGL 4430 - Graphic Novel**  
**ENGL 4431 - Contemporary Literature**  
**ENGL 4442 - Studies in World Literature**  
**ENGL 4451 - Studies/Women and Literature**  
**ENGL 4452 - Modern Drama**  
**ENGL 4453 - Contemporary Drama**  
**ENGL 4454 - Literary Movements**  
**ENGL 4456 - Reading in Literary Nonfiction**  
**ENGL 4457 - Poetry and Poetics**  
**ENGL 4461 - Bible as Literature**  
**ENGL 4501 - History of English Lang**  
**ENGL 4511 - Language and Literature**  
**ENGL 4521 - Language and Society**  
**ENGL 4522 - Gender and Language**  
**ENGL 4523 - History of Rhetoric**  
**ENGL 4530 - Practicum in ESL**  
**ENGL 4531 - Methods and Techniques ESL**  
**ENGL 4532 - Skills/App/Assess ESL**

**ENGL 4533 - ESL/EFL in Multicult Setting**

**ENGL 4540 - Special Topics in Language and Linguistics**

**ENGL 4541 - Special Topics in Language and Linguistics**

**ENGL 4542 - Special Topics in Language and Linguistics**

**ENGL 4543 - Special Topics in Language and Linguistics**

**ENGL 4544 - Special Topics in Language and Linguistics**

**ENGL 4545 - Special Topics in Language and Linguistics**

**ENGL 4546 - Special Topics in Language and Linguistics**

**ENGL 4547 - Special Topics in Language and Linguistics**

**ENGL 4548 - Special Topics in Language and Linguistics**

**ENGL 4549 - Special Topics in Language and Linguistics**

**ENGL 4550 - Special Topics in Language and Linguistics**

**ENGL 4599 - Forms of Creative Nonfiction**

**ENGL 4600 - Creative Nonfiction Workshop**

**ENGL 4601 - Poetry Workshop**

**ENGL 4602 - Adv Composition**

**ENGL 4603 - Fiction Workshop**

**ENGL 4604 - Forms of Poetry**

**ENGL 4605 - Forms of Fiction**

**ENGL 4606 - Topics in Advanced Technical Writing.**

**ENGL 4607 - Topics in Advanced Technical Writing.**

**ENGL 4608 - Topics in Advanced Technical Writing.**

**ENGL 4609 - Topics in Advanced Technical Writing.**

**ENGL 4610 - Topics in Advanced Technical Writing.**

**ENGL 4611 - Topics in Advanced Technical Writing.**

**ENGL 4612 - Topics in Advanced Technical Writing.**

**ENGL 4613 - Topics in Advanced Technical Writing.**

**ENGL 4614 - Topics in Advanced Technical Writing.**

**ENGL 4615 - Topics in Advanced Technical Writing.**

**ENGL 4616 - The Publishing Process**

**ENGL 4618 - Document Design**

**ENGL 4619 - Web Design/Online Writing**

**ENGL 4630 - Intern Profsnl Writing**

**ENGL 4640 - Internship in English**

**ENGL 4701 - Being an English Teacher**

**ENGL 4900 - Independent Study**

**ENGL 4996 - Honors Thesis**

## **Environmental Studies**

**ENVR 4000 - Environ Studies Directed Rsrch**

**ENVR 4100 - Biological and Physical Environmental Study**

**ENVR 4101 - Biological and Physical Environmental Study**

**ENVR 4102 - Biological and Physical Environmental Study**

**ENVR 4103 - Biological and Physical Environmental Study**

**ENVR 4104 - Biological and Physical Environmental Study**

**ENVR 4105 - Biological and Physical Environmental Study**

**ENVR 4106 - Biological and Physical Environmental Study**

**ENVR 4107 - Biological and Physical Environmental Study**

**ENVR 4108 - Biological and Physical Environmental Study**

**ENVR 4109 - Biological and Physical Environmental Study**

**ENVR 4110 - Biological and Physical Environmental Study**

**ENVR 4120 - Social and Behavioral Environmental Study**

**ENVR 4121 - Social and Behavioral Environmental Study**

**ENVR 4122 - Social and Behavioral Environmental Study**

**ENVR 4123 - Social and Behavioral Environmental Study**

**ENVR 4124 - Social and Behavioral Environmental Study**

**ENVR 4125 - Social and Behavioral Environmental Study**

**ENVR 4126 - Social and Behavioral Environmental Study**

**ENVR 4127 - Social and Behavioral Environmental Study**

**ENVR 4128 - Social and Behavioral Environmental Study**

**ENVR 4129 - Social and Behavioral Environmental Study**

**ENVR 4130 - Social and Behavioral Environmental Study**

## **Exercise, Sport, and Movement Sciences**

**ESMS 2004 - Intro to Exercise Science**

**ESMS 2010 - Resistance Training Applications**

**ESMS 2015 - Resistance/Aerobic Training Applications**

**ESMS 2020 - Aerobics Training Application**

**ESMS 3020 - Exercise and Sport Mechanics**

**ESMS 3050 - Advanced Life Support Exercise, Conditioning, Testing**

**ESMS 3405 - Structure and Function of Anatomic Kinesiology**

**ESMS 3410 - Anatomic Kinesiology I**

**ESMS 3415 - Anatomic Kinesiology II**

**ESMS 3450 - Psychological Aspects of Exercise**

**ESMS 3502 - Prevention/Care of Athletic Injuries**

**ESMS 3603 - Exercise Physiology I**

**ESMS 3700 - Exercise Physiology Introduction**

**ESMS 3703 - Exercise Physiology II**

**ESMS 3803 - Motor Learning**

**ESMS 3853 - Motor Behavior**

**ESMS 4000 - Exercise Test Interpretation Lab**

**ESMS 4010 - Supplements/Food/Drugs Health**

**ESMS 4015 - Exercise Programs for Special Populations**

**ESMS 4020 - Clinical Biomechanics**

**ESMS 4406 - Exercise Test/ECG Interpretation**

**ESMS 4509 - Preparing to Work with Clients with Disabilities**

**ESMS 4603 - Adv Meth/Strength Condition**



**ESMS 4605 - Internship in Exercise Sport and Movement Sciences**

**ESMS 4705 - Special Topics Workshop in Exercise and Sport Science**

**ESMS 4706 - Special Topics Workshop in Exercise and Sport Science**

**ESMS 4707 - Special Topics Workshop in Exercise and Sport Science**

**ESMS 4708 - Special Topics Workshop in Exercise and Sport Science**

**ESMS 4709 - Special Topics Workshop in Exercise and Sport Science**

**ESMS 4710 - Special Topics Workshop in Exercise and Sport Science**

**ESMS 4711 - Special Topics Workshop in Exercise and Sport Science**

**ESMS 4902 - Special Topics in Exercise and Sport Science**

**ESMS 4903 - Special Topics in Exercise and Sport Science**

**ESMS 4904 - Special Topics in Exercise and Sport Science**

**ESMS 4905 - Special Topics in Exercise and Sport Science**

**ESMS 4906 - Special Topics in Exercise and Sport Science**

**ESMS 4907 - Special Topics in Exercise and Sport Science**

**ESMS 4908 - Special Topics in Exercise and Sport Science**

**ESMS 4909 - Special Topics in Exercise and Sport Science**

**ESMS 4910 - Special Topics in Exercise and Sport Science**

**ESMS 4911 - Special Topics in Exercise and Sport Science**

## **Experiential Learning**

**ELC 2900 - Experiential Learning Intermed**

**ELC 3900 - Experiential Learning Adv**

**ELC 4000 - Community Internship**

## **Finance, Insurance and Real Estate**

**FIR 1220 - Personal Financial Management**

**FIR 3220 - Personal Investing**

**FIR 3310 - Real Estate Principles**

**FIR 3410 - Financial Management**

**FIR 3710 - Investments**

**FIR 3720 - Financial Markets**

**FIR 3810 - Principles of Risk/Insurance**

**FIR 4011 - Retirement and Estate Planning**

**FIR 4110 - Special Topics**

**FIR 4111 - Special Topics**

**FIR 4112 - Special Topics**

**FIR 4113 - Special Topics**

**FIR 4114 - Special Topics**

**FIR 4115 - Special Topics**

**FIR 4116 - Special Topics**

**FIR 4117 - Special Topics**

**FIR 4118 - Special Topics**

**FIR 4119 - Special Topics**

**FIR 4310 - Real Estate Law**

**FIR 4320 - Real Estate Finance**

**FIR 4331 - Stock Portfolio Mgmt**

**FIR 4340 - Real Estate Appraisal**

**FIR 4350 - Real Estate Investment**

**FIR 4440 - Intermediate Managerial Finance**

**FIR 4550 - International Finance**

**FIR 4610 - Cases Managerial Finance**

**FIR 4620 - Cases in Financial Planning**

**FIR 4710 - Commercial Banking**

**FIR 4720 - Management of Financial Institutions**

**FIR 4721 - Financial Derivative Markets**

**FIR 4730 - Financial Analysis/Certification**

**FIR 4770 - Security Analysis/Portfolio Management**

**FIR 4810 - Property & Liability Insurance I**

**FIR 4820 - Life and Health Insurance**

**FIR 4870 - Risk Management**

**FIR 4910 - Independent Study in Finance, Insurance, Real Estate**

**FIR 4911 - Internship in Finance, Insurance, and Real Estate**

**FIR 4912 - Per Financial Plan Appl**

**FIR 4996 - Senior Honors Thesis**

## **French**

**FREN 1010 - Elementary French I**

**FREN 1020 - Elementary French II**

**FREN 2010 - Intermediate French I**

**FREN 2020 - Intermediate French II**

**FREN 3301 - Conversation and Composition**

**FREN 3302 - Conversation and Composition**

**FREN 3401 - French Civilization**

**FREN 3411 - Intro To French Lit**

**FREN 3791 - French for Commerce I**

**FREN 3900 - French Culture and Society**

**FREN 4301 - French Phonetics**

**FREN 4302 - Adv French Grammar**

**FREN 4412 - 17th & 18th Centuries**

**FREN 4413 - 19th Century French Lit**

**FREN 4414 - 20th Century French Lit**

**FREN 4415 - Francophone Literature**

**FREN 4780 - Individual Study French**

**FREN 4791 - Special Topics in French Literature, Language, or Civilization**

**FREN 4792 - Special Topics in French Literature, Language, or Civilization**

**FREN 4793 - Special Topics in French Literature, Language, or Civilization**

**FREN 4794 - Special Topics in French Literature, Language, or Civilization**

**FREN 4795 - Special Topics in French Literature, Language, or Civilization**

**FREN 4796 - Special Topics in French Literature, Language, or Civilization**

**FREN 4797 - Special Topics in French Literature, Language, or Civilization**

**FREN 4798 - Special Topics in French Literature, Language, or Civilization**

**FREN 4799 - Special Topics in French Literature, Language, or Civilization**

**FREN 4801 - Cont France/Francophone World**

## **German**

**GERM 701 - German Rdng Knwldge I**

**GERM 1010 - Elementary German I**

**GERM 1020 - Elementary German II**

**GERM 2010 - Intermediate German I**

**GERM 2020 - Intermediate German II**

**GERM 3301 - Conversation and Composition**

**GERM 3302 - Conversation and Composition**

**GERM 3303 - German Translation**

**GERM 3411 - Intro German Lit and Culture I**

**GERM 3412 - Intro Germ Lit and Culture II**

**GERM 3790 - Advanced German Grammar**

**GERM 3791 - Business German I**

**GERM 3792 - Business German II**

**GERM 3900 - Germany Today**

**GERM 4443 - German Writers 20th Century**

**GERM 4451 - German Drama**

**GERM 4465 - German Narrative Prose**

**GERM 4466 - German Poetry**

**GERM 4480 - Goethe**

**GERM 4501 - Teaching German Pedagogy**

**GERM 4511 - German Lang Dev/Structure**

**GERM 4780 - Individ Study German**

**GERM 4791 - Special Topics in German Language or Literature**

**GERM 4792 - Special Topics in German Language or Literature**

**GERM 4793 - Special Topics in German Language or Literature**

**GERM 4794 - Special Topics in German Language or Literature**

**GERM 4795 - Special Topics in German Language or Literature**

**GERM 4796 - Special Topics in German Language or Literature**

**GERM 4797 - Special Topics in German Language or Literature**

**GERM 4798 - Special Topics in German Language or Literature**

**GERM 4799 - Special Topics in German Language or Literature**

## **Health Administration**

**HADM 4101 - Health Systems**

## **Health and Sports Sciences**

**HMSE 1100 - Concepts Fitness/Wellness**

**HMSE 2000 - Health/Sport Sc Terminology**

**HMSE 2007 - Careers in Health Studies**

**HMSE 2102 - First Aid and CPR**

**HMSE 4105 - Prep/Work w/Clients w/Dis**

**HMSE 4305 - Problems/Health Sport Science**

**HMSE 4999 - Senior Project/HSS**

## **Healthcare Leadership**

**HCL 3000 - Healthcare Leadership**

**HCL 3010 - Healthcare Financial Mgmt**

**HCL 3020 - Healthcare Informatics**

**HCL 3030 - Healthcare Strategic Plan/Mktg**

**HCL 3040 - U S Health System**

**HCL 3050 - Prof Writing Healthcare**

**HCL 3060 - Interpersonal Skills**

**HCL 4000 - Health Policy Issues**

**HCL 4010 - Healthcare Stats/Research**

**HCL 4020 - Law/Ethics of Healthcare**

**HCL 4030 - Healthcare Human Resources**

**HCL 4040 - Business Principles/Healthcare**

**HCL 4605 - Internship in Healthcare Leadership**

## **Health Sciences**

**HLSC 2100 - Wellness Concepts Practice**

**HLSC 2200 - Introduction to Public Health/Health Studies**

**HLSC 3306 - Elementary School Health and Wellness**

**HLSC 3500 - Health Habits/Personal Wellness**

**HLSC 3505 - Prin/Health Fitness Instruc**

**HLSC 3506 - Principles of Health/Fitness Practicum**

**HLSC 3522 - Assessment and Program Evaluation in Health Sciences (HSCI)**

**HLSC 3606 - Leadership and Communication in Health Sciences**

**HLSC 3716 - Marketing and Entrepreneurship in Health Sciences**

**HLSC 3800 - Strategic Planning & Program Development**

**HLSC 4100 - Health and Aging**

**HLSC 4200 - Cultural Competence in Health**

**HLSC 4300 - Individuals with Disabilities and Special Needs**

**HLSC 4400 - Statistics for Health Sciences**

**HLSC 4500 - Project Management in Health Sciences**

**HLSC 4520 - Health and Lifestyle Counseling**

**HLSC 4530 - Epidemiology**

**HLSC 4605 - Internship in Health Sciences**

## **Hebrew**

**HEBR 1010 - Elementary Hebrew I**

**HEBR 1020 - Elementary Hebrew II**

**HEBR 2010 - Intermediate Hebrew I**

**HEBR 2020 - Intermediate Hebrew II**

## **History**

**HIST 220 - African American History**

**HIST 230 - African American History**

**HIST 1110 - World Civilization I**

**HIST 1120 - World Civilization II**

**HIST 2010 - U S to 1877**

**HIST 2020 - The U S Since 1877**

**HIST 2030 - Tennessee History**

**HIST 2050 - Appalachian History**

**HIST 3035 - Technology/Culture Am History**

**HIST 3121 - England Before 1714**

**HIST 3122 - England Since 1714**

**HIST 3211 - Colonial Latin America**

**HIST 3212 - Latin American Nations**

**HIST 3233 - Caribbean History**

**HIST 3273 - Islamic History to 1405**

**HIST 3274 - Islamic History since 1405**

**HIST 3275 - History of Jewish People**

**HIST 3281 - History/Africa to 1500**

**HIST 3282 - History of Africa since 1500**

**HIST 3290 - Traditional East Asia**

**HIST 3291 - Modern Asia**

**HIST 3301 - Early Modern Europe**

**HIST 3302 - Modern Europe 1800-Present**

**HIST 3320 - Ancient World**

**HIST 3370 - Medieval/Renaissance Europe**

**HIST 3670 - Civil War/Reconstruction**

**HIST 3803 - American Diplomatic History**

**HIST 3811 - U S Military/Naval History**

**HIST 3815 - World War II**

**HIST 3817 - Vietnam War Global Prsp**

**HIST 3823 - Economic History of U S**

**HIST 3840 - U S Constitutional History**

**HIST 3863 - Social/Intellct History of U S**

**HIST 3880 - Renaissance Reformation Europe**

**HIST 3881 - African American History**

**HIST 3905 - History of Memphis**

**HIST 3920 - The Old South**

**HIST 3930 - The New South**

**HIST 3941 - History of American Indian**

**HIST 4003 - Philosophy of History**

**HIST 4012 - Directed Reading/Honors**

**HIST 4014 - Directed Readings**

**HIST 4020 - Internship in History**

**HIST 4022 - Oral History**

**HIST 4050 - Special Topics in History**

**HIST 4051 - Special Topics in History**

**HIST 4052 - Special Topics in History**

**HIST 4053 - Special Topics in History**

**HIST 4054 - Special Topics in History**

**HIST 4055 - Special Topics in History**

**HIST 4056 - Special Topics in History**

**HIST 4057 - Special Topics in History**



**HIST 4058 - Special Topics in History**  
**HIST 4059 - Special Topics in History**  
**HIST 4060 - Special Topics in History**  
**HIST 4061 - Special Topics in History**  
**HIST 4062 - Special Topics in History**  
**HIST 4063 - Special Topics in History**  
**HIST 4064 - Special Topics in History**  
**HIST 4065 - Special Topics in History**  
**HIST 4066 - Special Topics in History**  
**HIST 4067 - Special Topics in History**  
**HIST 4068 - Special Topics in History**  
**HIST 4069 - Special Topics in History**  
**HIST 4105 - War in the Ancient World**  
**HIST 4106 - War in the Modern World**  
**HIST 4126 - Victorian/Edwardian England**  
**HIST 4145 - History of Modern Germany**  
**HIST 4151 - Habsburg Cent Europe 1740-1918**  
**HIST 4160 - Russia to 1917**  
**HIST 4162 - Russia after 1917**  
**HIST 4213 - Women/Gender/Latin America**  
**HIST 4221 - 20th Century Latin Amer Rev**  
**HIST 4222 - Race/Class in Latin America**  
**HIST 4260 - World Since 1945**  
**HIST 4272 - Modern Middle East**  
**HIST 4276 - The Arab-Israeli Conflict**  
**HIST 4277 - Ottoman Empire**  
**HIST 4283 - History/South Africa**  
**HIST 4285 - Afro-Cuban History and Culture**  
**HIST 4288 - West Africa/Diaspora**

**HIST 4289 - African Women's History**  
**HIST 4292 - Modern China 1800-Present**  
**HIST 4294 - Modern Japan 1800-Present**  
**HIST 4297 - Ancient India**  
**HIST 4320 - Ancient Near East**  
**HIST 4321 - Greek Experience**  
**HIST 4322 - The Roman World**  
**HIST 4323 - Egypt of the Pharaohs**  
**HIST 4361 - History of Byzantine Empire**  
**HIST 4372 - High Middle Ages**  
**HIST 4380 - Renaissance Europe**  
**HIST 4386 - Intro to Museums**  
**HIST 4390 - Europe-Age Reformation**  
**HIST 4401 - Europe-Age Baroque**  
**HIST 4440 - French Revolution**  
**HIST 4453 - Europe 1815-1914**  
**HIST 4461 - Europe 1914-1945**  
**HIST 4506 - Cultural Int'l Hist Europe**  
**HIST 4620 - Colonial America to 1783**  
**HIST 4630 - New Nation/1783-1815**  
**HIST 4640 - Jackson America 1815-1850**  
**HIST 4670 - Civil War/Reconstruc 1850-1877**  
**HIST 4680 - Emr Modern America 1877-1914**  
**HIST 4685 - Emergence/Modern America**  
**HIST 4701 - U S 1914 to World War II**  
**HIST 4702 - U S Since W War II**  
**HIST 4823 - American Labor History**  
**HIST 4824 - Business History**  
**HIST 4831 - History American Family**

**HIST 4851 - History of Women in America**

**HIST 4853 - African American Women**

**HIST 4861 - Parks/People/Public Policy**

**HIST 4863 - History/Childhood in America**

**HIST 4871 - U S Urban History**

**HIST 4879 - Africa to the Americas**

**HIST 4880 - Slavery/Freedom/Segregation**

**HIST 4882 - Civil Rights Movement**

**HIST 4996 - Honors Thesis**

**HIST 4999 - Nature of Historical Inquiry**

## **Hospitality and Resort Management**

**HPRM 1050 - Business of Hospitality**

**HPRM 2003 - Special Events**

**HPRM 2004 - Distinguished Speakers**

**HPRM 2006 - Professional Development**

**HPRM 2007 - Resort Management**

**HPRM 2011 - Hosp Ind Managerial Acct**

**HPRM 2056 - Restaurant Serv Mgmt Lab**

**HPRM 2111 - Intr/Hospitality Indstry Exper**

**HPRM 2900 - Intermed ELC in Hospitality Mgm**

**HPRM 2999 - Purchase/Hospitality Industry**

**HPRM 3010 - Hospitality/Resort Colloquium**

**HPRM 3050 - Food/Beverage Controls**

**HPRM 3060 - Food & Bev. Production Theory**

**HPRM 3061 - Basic Food & Bev Prod Lab**

**HPRM 3062 - Rest. Managemet Service Lab**

**HPRM 3070 - Food Production and Service**

**HPRM 3130 - Hospitality Law Ethics & Risk**

**HPRM 3315 - Hospitality Human Resource Mgm**  
**HPRM 3320 - Hospitality Financial Mgmt**  
**HPRM 3330 - Managing Hotel/Resort Ops**  
**HPRM 3331 - Lodging Mgmt Lab**  
**HPRM 3600 - Entertainment Management**  
**HPRM 3650 - Comm & Rec Food Serv Mgmt**  
**HPRM 3680 - Intro to Wine & Spirits**  
**HPRM 3810 - Food Safety & Sanitation in Hospitality**  
**HPRM 3911 - Pre-Internship in HPRM**  
**HPRM 4007 - Resort and Timeshare Mgmt**  
**HPRM 4111 - Prof Development/Hospitality**  
**HPRM 4301 - Event Management for HPRM/PR**  
**HPRM 4320 - Hospitality Services Mktg**  
**HPRM 4322 - Adv Food/Beverage Management**  
**HPRM 4331 - Adv Resort/Lodging Management**  
**HPRM 4340 - Information Technology HPRM**  
**HPRM 4350 - Properties Develomnt/Planning**  
**HPRM 4360 - Entprn in Hosp & Tourism**  
**HPRM 4400 - International Hospitality**  
**HPRM 4401 - Management of Tourism**  
**HPRM 4620 - Hospitality Operational Anlys**  
**HPRM 4700 - Integrative Challenge**  
**HPRM 4900 - Advanced ELC in Hospitality Mg**  
**HPRM 4910 - HPRM Problems**  
**HPRM 4911 - Hospitality Mgmt Internship**  
**HPRM 4996 - Senior Honors Thesis**

## **Instruction and Curriculum Leadership**

**ICL 3000 - Principles of Teaching**

**ICL 3001 - Know/Learn/Math/Science**  
**ICL 3002 - Classroom Interactions**  
**ICL 3003 - Pract Secondary Math/Science**  
**ICL 3333 - Stdnt Assess/Inst Dec Mknng**  
**ICL 3901 - Special Problems Instruction**  
**ICL 4001 - Teaching/Diverse Environment**  
**ICL 4002 - Fndmtl/Urban Mid Grade Ed**  
**ICL 4003 - Teach Mid School Language Arts**  
**ICL 4004 - Teach Mid Grade/Math**  
**ICL 4005 - Teach Mid Grade/Science**  
**ICL 4006 - Teach Mid Grade/Social Science**  
**ICL 4007 - Curriculum/Instr Sec Math**  
**ICL 4008 - Teaching Math in Urban Schools**  
**ICL 4020 - Language/Comm/Diverse Classrm**  
**ICL 4021 - Professional/Ethical Practices**  
**ICL 4080 - Math Methods High School I**  
**ICL 4081 - Math Methods HS Teachers II**  
**ICL 4121 - Library Materl Yng Peop/Adlts**  
**ICL 4450 - Indivilized Instrctn Practicum**  
**ICL 4701 - Workshops in Curriculum and Instructional Leadership**  
**ICL 4702 - Workshops in Curriculum and Instructional Leadership**  
**ICL 4703 - Workshops in Curriculum and Instructional Leadership**  
**ICL 4704 - Workshops in Curriculum and Instructional Leadership**  
**ICL 4705 - Workshops in Curriculum and Instructional Leadership**  
**ICL 4706 - Workshops in Curriculum and Instructional Leadership**  
**ICL 4707 - Workshops in Curriculum and Instructional Leadership**  
**ICL 4708 - Workshops in Curriculum and Instructional Leadership**  
**ICL 4709 - Workshops in Curriculum and Instructional Leadership**  
**ICL 4715 - Clinical/Practicum**

**ICL 4716 - Project-Based Instruction**

**ICL 4717 - Pract in Project-Based Instruc**

**ICL 4761 - Aerospace Ed in Schools**

**ICL 4762 - Adv Aerospace Ed in Schools**

**ICL 4800 - Residency II Prof Seminar**

**ICL 4901 - Student Teach/Early Child**

**ICL 4902 - Clinical Residency II/ECED**

**ICL 4904 - Residency II Clinical**

**ICL 4906 - Teaching All Learners**

**ICL 4907 - Stdnt Tchng/Secondary School**

**ICL 4908 - Student Teaching/Health**

**ICL 4909 - Student Teaching/Phys Ed**

**ICL 4910 - Stdnt Tchng/Voc Home Ec**

**ICL 4911 - Student Teaching in Music**

**ICL 4913 - Clinical Residency II/Mid Grds**

**ICL 4914 - Residency I Practicum**

**ICL 4950 - Special Topics in Instruction and Curriculum Leadership**

**ICL 4951 - Special Topics in Instruction and Curriculum Leadership**

**ICL 4952 - Special Topics in Instruction and Curriculum Leadership**

**ICL 4953 - Special Topics in Instruction and Curriculum Leadership**

**ICL 4954 - Special Topics in Instruction and Curriculum Leadership**

**ICL 4955 - Special Topics in Instruction and Curriculum Leadership**

**ICL 4956 - Special Topics in Instruction and Curriculum Leadership**

**ICL 4957 - Special Topics in Instruction and Curriculum Leadership**

**ICL 4958 - Special Topics in Instruction and Curriculum Leadership**

**ICL 4959 - Special Topics in Instruction and Curriculum Leadership**

**ICL 4960 - Academic Content for Teaching**

**ICL 4999 - Experiential Learning Credit**

## **Instructional Design and Technology**

**IDT 3600 - Technology in Education**

## **International Studies**

**INTL 1101 - Introduction to International Studies**

**INTL 3700 - Special Topics in International Studies**

**INTL 3701 - Special Topics in International Studies**

**INTL 3702 - Special Topics in International Studies**

**INTL 3703 - Special Topics in International Studies**

**INTL 3704 - Special Topics in International Studies**

**INTL 3705 - Special Topics in International Studies**

**INTL 3706 - Special Topics in International Studies**

**INTL 3707 - Special Topics in International Studies**

**INTL 3708 - Special Topics in International Studies**

**INTL 3709 - Special Topics in International Studies**

**INTL 4601 - Seminar International Studies**

**INTL 4911 - Internship Internatl Studies**

**INTL 4912 - Directed Individual Study**

## **Italian**

**ITAL 1010 - Elementary Italian I**

**ITAL 1020 - Elementary Italian II**

**ITAL 2010 - Intermediate Italian I**

**ITAL 2020 - Intermediate Italian II**

**ITAL 3301 - Conversation/Composition I**

**ITAL 3302 - Conversation/Composition II**

**ITAL 3311 - Adv Conversation/Composition I**

**ITAL 3312 - Adv Conversation/Compositn II**

**ITAL 3411 - Intro to Italian Literature**

**ITAL 3900 - Italian Culture and Society**

**ITAL 4401 - Business Italian**

**ITAL 4441 - Dante**

**ITAL 4780 - Indiv Studies Italian**

**ITAL 4791 - Special Topics in Italian Literature, Language, and Civilization**

**ITAL 4792 - Special Topics in Italian Literature, Language, and Civilization**

**ITAL 4793 - Special Topics in Italian Literature, Language, and Civilization**

**ITAL 4794 - Special Topics in Italian Literature, Language, and Civilization**

**ITAL 4795 - Special Topics in Italian Literature, Language, and Civilization**

**ITAL 4796 - Special Topics in Italian Literature, Language, and Civilization**

**ITAL 4797 - Special Topics in Italian Literature, Language, and Civilization**

**ITAL 4798 - Special Topics in Italian Literature, Language, and Civilization**

**ITAL 4799 - Special Topics in Italian Literature, Language, and Civilization**

## **Japanese**

**JAPN 1010 - Elementary Japanese I**

**JAPN 1020 - Elementary Japanese II**

**JAPN 2010 - Intermediate Japanese I**

**JAPN 2020 - Intermediate Japanese II**

**JAPN 3301 - Conversation/Composition I**

**JAPN 3302 - Conversation/Composition II**

**JAPN 3401 - Intro to Japanese Literature**

**JAPN 3402 - Readings/JAPN Culture**

**JAPN 3900 - Japan Culture/Society**

**JAPN 4401 - Advanced Japanese I**

**JAPN 4402 - Advanced Japanese II**

**JAPN 4501 - Japanese Linguistics**

**JAPN 4701 - Japn/Professional Purpose I**

**JAPN 4702 - Japn/Professional Purposes II**



**JAPN 4780 - Individual Study in Japanese**

**JAPN 4791 - Special Topics in Japanese Language, Culture or Literature**

**JAPN 4792 - Special Topics in Japanese Language, Culture or Literature**

**JAPN 4793 - Special Topics in Japanese Language, Culture or Literature**

**JAPN 4794 - Special Topics in Japanese Language, Culture or Literature**

**JAPN 4795 - Special Topics in Japanese Language, Culture or Literature**

**JAPN 4796 - Special Topics in Japanese Language, Culture or Literature**

**JAPN 4797 - Special Topics in Japanese Language, Culture or Literature**

**JAPN 4798 - Special Topics in Japanese Language, Culture or Literature**

**JAPN 4799 - Special Topics in Japanese Language, Culture or Literature**

## **Journalism**

**JOUR 3120 - Reporting**

**JOUR 3130 - Feature Writing/Reporting**

**JOUR 3526 - Multimedia Storytelling**

**JOUR 3950 - Experiential Learning Credit**

**JOUR 4102 - Entrepreneurial Media**

**JOUR 4124 - Data Writing/Reporting**

**JOUR 4140 - Publication Design**

**JOUR 4150 - Sports Writing/Reporting**

**JOUR 4155 - Multimedia Sports Reporting**

**JOUR 4160 - Food Writing/Reporting**

**JOUR 4170 - Business Writing/Reporting**

**JOUR 4180 - Public Issues Writing/Reporting**

**JOUR 4190 - Opinion Writing/Reporting**

**JOUR 4500 - Web Publish I: html/CSS**

**JOUR 4526 - Advanced Photojournalism**

**JOUR 4550 - Web Publish II: html/CSS**

**JOUR 4560 - Interactive Media**

**JOUR 4629 - TV News Writing/Reporting**  
**JOUR 4639 - TV News Producing**  
**JOUR 4800 - Special Topics in Journalism**  
**JOUR 4801 - Special Topics in Journalism**  
**JOUR 4802 - Special Topics in Journalism**  
**JOUR 4803 - Special Topics in Journalism**  
**JOUR 4804 - Special Topics in Journalism**  
**JOUR 4805 - Special Topics in Journalism**  
**JOUR 4806 - Special Topics in Journalism**  
**JOUR 4807 - Special Topics in Journalism**  
**JOUR 4808 - Special Topics in Journalism**  
**JOUR 4809 - Special Topics in Journalism**  
**JOUR 4830 - Directed Indiv Study**  
**JOUR 4900 - Advanced Visual Media**  
**JOUR 4920 - Information Design**  
**JOUR 4998 - Multimedia News Lab**

## **Journalism and Strategic Media**

**JRSM 1700 - Survey of Media**  
**JRSM 1750 - Precision Language**  
**JRSM 1950 - Experiential Learning**  
**JRSM 2121 - Media Writing**  
**JRSM 3900 - Visual Media**  
**JRSM 4700 - Media Law**  
**JRSM 4702 - Media, Diversity & Society**  
**JRSM 4704 - Issues in Sport and Media**  
**JRSM 4708 - Media Ethics**  
**JRSM 4716 - Media History**  
**JRSM 4720 - Presidents and the Press**

**JRSM 4910 - Advanced Social Media**

**JRSM 4930 - Media Internship**

**JRSM 4940 - Student Media Practicum**

## **Judaic Studies**

**JDST 2850 - Religions of Abraham**

**JDST 3601 - Judaism**

**JDST 3661 - Old Testament**

**JDST 3801 - Jewish Thought I**

**JDST 3802 - Jewish Thought II**

**JDST 4511 - Holocaust Studies**

**JDST 4671 - Jewish Literary Texts**

**JDST 4700 - Special Topics**

**JDST 4701 - Special Topics**

**JDST 4702 - Special Topics**

**JDST 4703 - Special Topics**

**JDST 4704 - Special Topics**

**JDST 4705 - Special Topics**

**JDST 4706 - Special Topics**

**JDST 4707 - Special Topics**

**JDST 4708 - Special Topics**

**JDST 4709 - Special Topics**

**JDST 4710 - Special Topics**

**JDST 4711 - Special Topics**

**JDST 4712 - Special Topics**

**JDST 4713 - Special Topics**

**JDST 4714 - Special Topics**

**JDST 4715 - Special Topics**

**JDST 4716 - Special Topics**

**JDST 4717 - Special Topics**  
**JDST 4718 - Special Topics**  
**JDST 4719 - Special Topics**  
**JDST 4720 - Special Topics**  
**JDST 4721 - Special Topics**  
**JDST 4722 - Special Topics**  
**JDST 4723 - Special Topics**  
**JDST 4724 - Special Topics**  
**JDST 4725 - Special Topics**  
**JDST 4726 - Special Topics**  
**JDST 4727 - Special Topics**  
**JDST 4728 - Special Topics**  
**JDST 4729 - Special Topics**  
**JDST 4730 - Special Topics**  
**JDST 4731 - Special Topics**  
**JDST 4732 - Special Topics**  
**JDST 4733 - Special Topics**  
**JDST 4734 - Special Topics**  
**JDST 4735 - Special Topics**  
**JDST 4736 - Special Topics**  
**JDST 4737 - Special Topics**  
**JDST 4738 - Special Topics**  
**JDST 4739 - Special Topics**  
**JDST 4740 - Special Topics**  
**JDST 4741 - Special Topics**  
**JDST 4742 - Special Topics**  
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**JDST 4771 - Special Topics**  
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**JDST 4773 - Special Topics**  
**JDST 4774 - Special Topics**

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**JDST 4776 - Special Topics**  
**JDST 4777 - Special Topics**  
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**JDST 4779 - Special Topics**  
**JDST 4780 - Special Topics**  
**JDST 4781 - Special Topics**  
**JDST 4782 - Special Topics**  
**JDST 4783 - Special Topics**  
**JDST 4784 - Special Topics**  
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**JDST 4789 - Special Topics**  
**JDST 4790 - Special Topics**  
**JDST 4791 - Special Topics**  
**JDST 4792 - Special Topics**  
**JDST 4793 - Special Topics**  
**JDST 4794 - Special Topics**  
**JDST 4795 - Special Topics**  
**JDST 4796 - Special Topics**  
**JDST 4797 - Special Topics**  
**JDST 4798 - Special Topics**  
**JDST 4799 - Special Topics**  
**JDST 4801 - Jewish Mysticism**  
**JDST 4820 - Political History of Israel**  
**JDST 4830 - Israeli/Arab Conflict**  
**JDST 4840 - Israel/Antiquity in Modernity**

**JDST 4841 - Biblical Archaeology**

**JDST 4900 - Independent Study**

## **Languages and Literature**

**LALI 1010 - Special Foreign Lang I**

**LALI 1020 - Special Foreign Lang II**

**LALI 2010 - Intermediate Foreign Lang I**

**LALI 2020 - Intermediate Foreign Lang II**

**LALI 3661 - Old Testament**

**LALI 4010 - Special Topics in Foreign Literatures**

**LALI 4011 - Special Topics in Foreign Literatures**

**LALI 4012 - Special Topics in Foreign Literatures**

**LALI 4013 - Special Topics in Foreign Literatures**

**LALI 4014 - Special Topics in Foreign Literatures**

**LALI 4015 - Special Topics in Foreign Literatures**

**LALI 4016 - Special Topics in Foreign Literatures**

**LALI 4017 - Special Topics in Foreign Literatures**

**LALI 4018 - Special Topics in Foreign Literatures**

**LALI 4019 - Special Topics in Foreign Literatures**

**LALI 4020 - Special Topics in Foreign Literatures**

**LALI 4021 - Special Topics in Foreign Literatures**

**LALI 4022 - Special Topics in Foreign Literatures**

**LALI 4023 - Special Topics in Foreign Literatures**

**LALI 4024 - Special Topics in Foreign Literatures**

**LALI 4025 - Special Topics in Foreign Literatures**

**LALI 4026 - Special Topics in Foreign Literatures**

**LALI 4027 - Special Topics in Foreign Literatures**

**LALI 4028 - Special Topics in Foreign Literatures**

**LALI 4029 - Special Topics in Foreign Literatures**

**LALI 4441 - Dante**

**LALI 4442 - Italian Cinema**

**LALI 4493 - Contemporary French Lit**

**LALI 4780 - Individual Study Lang and Lit**

**LALI 4791 - Special Topics in Foreign Literature, Language, or Civilization**

**LALI 4792 - Special Topics in Foreign Literature, Language, or Civilization**

**LALI 4793 - Special Topics in Foreign Literature, Language, or Civilization**

**LALI 4794 - Special Topics in Foreign Literature, Language, or Civilization**

**LALI 4795 - Special Topics in Foreign Literature, Language, or Civilization**

**LALI 4796 - Special Topics in Foreign Literature, Language, or Civilization**

**LALI 4797 - Special Topics in Foreign Literature, Language, or Civilization**

**LALI 4798 - Special Topics in Foreign Literature, Language, or Civilization**

**LALI 4799 - Special Topics in Foreign Literature, Language, or Civilization**

## **Latin**

**LATN 1010 - Elementary Latin I**

**LATN 1020 - Elementary Latin II**

**LATN 2010 - Intermediate Latin I**

**LATN 2020 - Intermediate Latin II**

**LATN 4001 - Latin Prose**

**LATN 4002 - Latin Poetry**

## **Leadership**

**LEAD 2010 - Foundations/American Education**

**LEAD 3350 - The Adult Learner**

**LEAD 4000 - Education/School/Amer Society**

**LEAD 4044 - SPED Law for Educators**

## **Legal Studies**

**LEGL 2400 - Legal Ethics**



**LEGL 2410 - Intro to Law**  
**LEGL 3150 - Legal Research/Writing I**  
**LEGL 3400 - Estates and Probates**  
**LEGL 3410 - Contracts Commercial Law**  
**LEGL 3420 - Torts**  
**LEGL 3430 - Business Associations**  
**LEGL 3440 - Civil Procedure**  
**LEGL 3481 - Family Law**  
**LEGL 3482 - Labor Law**  
**LEGL 3483 - Computers in Law**  
**LEGL 3484 - Bankruptcy Practices**  
**LEGL 3485 - Real Estate Practices**  
**LEGL 3486 - Criminal Law & Procedure**  
**LEGL 3487 - Admin Law/Procedure**  
**LEGL 4150 - Legal Research Writing II**  
**LEGL 4200 - Healthcare Liability**  
**LEGL 4300 - Immigration Law**

## **Management**

**MGMT 1010 - Intro to Business**  
**MGMT 1812 - Life Skills: Personal Development/Change Management**  
**MGMT 2811 - Field Experience in Business**  
**MGMT 2820 - Intro to Entrepreneurship**  
**MGMT 2900 - Experiential Learning Credit**  
**MGMT 3110 - Organization and Mgmt**  
**MGMT 3215 - Management of Human Resources**  
**MGMT 3510 - Business Communications**  
**MGMT 3812 - Managing Employee Wellness**  
**MGMT 3900 - Experiential Learning Credit**

**MGMT 4110 - Special Topics in Management.**

**MGMT 4111 - Special Topics in Management.**

**MGMT 4112 - Special Topics in Management.**

**MGMT 4113 - Special Topics in Management.**

**MGMT 4114 - Life Skills-Personal Devlpment**

**MGMT 4114 - Special Topics in Management.**

**MGMT 4115 - Special Topics in Management.**

**MGMT 4116 - Special Topics in Management.**

**MGMT 4117 - Special Topics in Management.**

**MGMT 4118 - Special Topics in Management.**

**MGMT 4119 - Special Topics in Management.**

**MGMT 4240 - Compensation Performance Appraisal**

**MGMT 4251 - Employee Relations**

**MGMT 4260 - Employee Staffing/Training/Development**

**MGMT 4420 - Organizational Behavior in Business**

**MGMT 4461 - Managerial Leadership**

**MGMT 4481 - Teamwork/Group Dynamics in Organizations**

**MGMT 4510 - International Business Communication**

**MGMT 4710 - Strategic Management**

**MGMT 4810 - International Management**

**MGMT 4820 - Entrepreneurship**

**MGMT 4910 - Independent Study Management**

**MGMT 4911 - Internship In Mgmt**

**MGMT 4920 - Independent Study in Entrepreneurship**

**MGMT 4921 - Internship in Entrepreneurship**

**MGMT 4996 - Senior Honors Thesis**

## **Management Information Systems**

**MIS 2749 - Foundation/Information Systems**

**MIS 2845 - Applied Program Development I**

**MIS 2900 - Field Experience**

**MIS 3210 - Critical Thinking Using Analytics**

**MIS 3765 - E Commerce Business Applicatn**

**MIS 3770 - System Analysis Methods**

**MIS 3775 - Database/Information Management**

**MIS 3790 - Enterprise Architecture**

**MIS 3885 - Strategic IT Project Management**

**MIS 3900 - Experiential Learning Credit**

**MIS 4110 - Special Topics in Management Information Systems**

**MIS 4111 - Special Topics in Management Information Systems**

**MIS 4112 - Special Topics in Management Information Systems**

**MIS 4113 - Special Topics in Management Information Systems**

**MIS 4114 - Special Topics in Management Information Systems**

**MIS 4115 - Special Topics in Management Information Systems**

**MIS 4116 - Special Topics in Management Information Systems**

**MIS 4117 - Special Topics in Management Information Systems**

**MIS 4118 - Special Topics in Management Information Systems**

**MIS 4119 - Special Topics in Management Information Systems**

**MIS 4160 - Mobile Application Development**

**MIS 4310 - Global Information Technology**

**MIS 4321 - Global Outsourcing/Technology**

**MIS 4672 - Project Management Tools and Leadership**

**MIS 4681 - Fundamental/Software Testing**

**MIS 4682 - Advanced Software Testing**

**MIS 4760 - Web Site Development**

**MIS 4800 - Strategy/Mgmt/Acquisition**

**MIS 4845 - Application Program Development III**

**MIS 4910 - Management Information Systems Problems**

**MIS 4911 - Internship in Management Information Systems**

**MIS 4996 - Senior Honors Thesis/MIS**

## **Marketing**

**MKTG 3010 - Principles of Marketing**

**MKTG 3012 - Consumer Behavior**

**MKTG 3140 - Advertising/Sales Promotion**

**MKTG 3320 - Retailing Management**

**MKTG 3340 - Principles of Social Media Marketing**

**MKTG 3410 - Building Buyer/Seller Relationships**

**MKTG 4080 - Marketing Research**

**MKTG 4230 - Services Marketing**

**MKTG 4410 - Sales Management**

**MKTG 4411 - Sales Internship**

**MKTG 4470 - Essentials of Negotiation**

**MKTG 4530 - International Marketing**

**MKTG 4611 - Social Commerce Internship/Practicum**

**MKTG 4630 - Social Commerce Strategies and Analytics**

**MKTG 4901 - Management of Marketing Strategies**

**MKTG 4910 - Problems in Marketing**

**MKTG 4911 - Marketing Internship**

**MKTG 4920 - Special Topics in Marketing**

**MKTG 4921 - Special Topics in Marketing**

**MKTG 4922 - Special Topics in Marketing**

**MKTG 4923 - Special Topics in Marketing**

**MKTG 4924 - Special Topics in Marketing**

**MKTG 4925 - Special Topics in Marketing**

**MKTG 4926 - Special Topics in Marketing**

**MKTG 4927 - Special Topics in Marketing**

**MKTG 4928 - Special Topics in Marketing**

**MKTG 4929 - Special Topics in Marketing**

**MKTG 4996 - Senior Honors Thesis**

## **Mathematics**

**MATH 1100 - Basic Algebra**

**MATH 1420 - Foundations of Mathematics**

**MATH 1421 - Honors Calculus I**

**MATH 1480 - Math/Elem School Teachers I**

**MATH 1481 - Math/Elem School Teachers II**

**MATH 1530 - Prob/Statistics/Non Calculus**

**MATH 1710 - College Algebra**

**MATH 1720 - Trigonometry**

**MATH 1730 - Pre-Calculus**

**MATH 1830 - Elementary Calculus**

**MATH 1900 - Experience/Calculus**

**MATH 1910 - Calculus I**

**MATH 1920 - Calculus II**

**MATH 2011 - Special Topics in Mathematics**

**MATH 2012 - Special Topics in Mathematics**

**MATH 2013 - Special Topics in Mathematics**

**MATH 2014 - Special Topics in Mathematics**

**MATH 2015 - Special Topics in Mathematics**

**MATH 2016 - Special Topics in Mathematics**

**MATH 2017 - Special Topics in Mathematics**

**MATH 2018 - Special Topics in Mathematics**

**MATH 2019 - Special Topics in Mathematics**

**MATH 2050 - Calculus Based Prob/Stats**

**MATH 2110 - Calculus III**

**MATH 2120 - Differential Equations**

**MATH 2421 - Honors Calculus II**

**MATH 2422 - Honors Calculus III**

**MATH 2702 - Intro Proof/Fundamental Math**

**MATH 2810 - Discrete Structure & Reasoning**

**MATH 3221 - Elementary Number Theory**

**MATH 3242 - Intro Linear Algebra**

**MATH 3402 - Honors Mathematics IV**

**MATH 3410 - Honors Seminar in Math I**

**MATH 3411 - Honors Seminar in Math II**

**MATH 3581 - College Geometry**

**MATH 3810 - College Geometry**

**MATH 4000 - Mathematics Seminar**

**MATH 4010 - Special Topics in Mathematics and Statistics**

**MATH 4011 - Special Topics in Mathematics and Statistics**

**MATH 4012 - Special Topics in Mathematics and Statistics**

**MATH 4013 - Special Topics in Mathematics and Statistics**

**MATH 4014 - Special Topics in Mathematics and Statistics**

**MATH 4015 - Special Topics in Mathematics and Statistics**

**MATH 4016 - Special Topics in Mathematics and Statistics**

**MATH 4017 - Special Topics in Mathematics and Statistics**

**MATH 4018 - Special Topics in Mathematics and Statistics**

**MATH 4019 - Special Topics in Mathematics and Statistics**

**MATH 4020 - Actuarial Mathematics**

**MATH 4022 - Fin Math I/Theory of Interest**

**MATH 4025 - Fin Math II/Derivatives**

**MATH 4028 - Models for Fin Econ/Options**

**MATH 4030 - Model Fin Econ/Adv Pre Thry**

**MATH 4050 - Foundations of Geometry and Trigonometry**

**MATH 4051 - Methods of Proof for Teachers**  
**MATH 4080 - Math/Sec School Teachers I**  
**MATH 4081 - Math/Sec School Teachers II**  
**MATH 4082 - Math/Mid School Teacher**  
**MATH 4083 - Dynamical Systems/Chaos**  
**MATH 4084 - Introduction to Graph Theory**  
**MATH 4085 - Introduction to Combinatorics**  
**MATH 4086 - Analytic Number Theory**  
**MATH 4120 - Ordinary Differential Equations**  
**MATH 4151 - History of Mathematics**  
**MATH 4171 - Special Problems in Math**  
**MATH 4242 - Linear Algebra**  
**MATH 4261 - Abstract Algebra**  
**MATH 4350 - Intro Real Analysis I**  
**MATH 4351 - Intro Real Analysis II**  
**MATH 4361 - Complex Variables**  
**MATH 4391 - Partial Differential Eqns I**  
**MATH 4392 - Partial Differential Eqns II**  
**MATH 4396 - Perturbation Methods**  
**MATH 4402 - Senior Honors Seminar**  
**MATH 4411 - Topology**  
**MATH 4607 - Intro SAS Programming**  
**MATH 4608 - R for Data Proc and Visual**  
**MATH 4611 - Intro Applied Statistics**  
**MATH 4614 - Probability/Statistics**  
**MATH 4635 - Intro Probability Theory**  
**MATH 4636 - Intro Statistical Theory**  
**MATH 4637 - Intro/Stat Models/Analysis**  
**MATH 4640 - Intro Probability Models**

**MATH 4643 - Intro Regression/Time Ser Anyl**

**MATH 4685 - Statistical Learning I**

**MATH 4686 - Statistical Learning II**

**MATH 4692 - Exp. in Data Science**

**MATH 4721 - Numerical Analysis**

## **Mechanical Engineering**

**MECH 1310 - Intro/Mechanical Engineering**

**MECH 1312 - Mech Engr Computing I**

**MECH 1314 - Mech Engr Computing II**

**MECH 1395 - Honors Studies**

**MECH 2316 - Engineering Design Comm I**

**MECH 2318 - Engr Design Communication**

**MECH 2320 - Mechanics of Materials**

**MECH 2332 - Dynamics**

**MECH 2395 - Honors Studies**

**MECH 3301 - Engineering Analysis**

**MECH 3310 - Intro to Thermal Systems**

**MECH 3311 - Engineering Thermodynamics I**

**MECH 3312 - Engineering Thermodynamics II**

**MECH 3316 - Engineering Design Comm II**

**MECH 3320 - Engineering Materials**

**MECH 3321 - Mechanics of Machines**

**MECH 3322 - Mechanics of Materials**

**MECH 3323 - Machine Design**

**MECH 3325 - Materials Laboratory**

**MECH 3331 - Fluid Mechanics**

**MECH 3335 - Fluid Mechanics Lab**

**MECH 3341 - Numerical/Statistical Methods**



**MECH 3351 - Heat Transfer I**

**MECH 3355 - Thermo/Heat Transfer Lab**

**MECH 3395 - Honors Studies**

**MECH 4300 - Prep/Professional Practice**

**MECH 4305 - Fluid Mechanics II**

**MECH 4309 - Gas Dynamics**

**MECH 4312 - Power Generation**

**MECH 4313 - Heat Transfer II**

**MECH 4314 - Senior Design I**

**MECH 4315 - Principles of HVAC Systems**

**MECH 4319 - Engineering Econ/Project Mgmt**

**MECH 4320 - Mechanics of Materials II**

**MECH 4322 - System Dynamics**

**MECH 4323 - Senior Design II**

**MECH 4324 - Computer Methods in Design**

**MECH 4325 - Adv Mech Materials**

**MECH 4326 - Biomedical System Analys/Mech**

**MECH 4330 - Intro Composite Materials**

**MECH 4331 - Turbomachinery**

**MECH 4333 - Aerospace Propulsion Syst**

**MECH 4335 - System Dynamics Lab**

**MECH 4337 - Internal Combustion Engines**

**MECH 4339 - Appld Computational Fluid Dyna**

**MECH 4340 - Manufacturing Processes**

**MECH 4342 - Intro/Packaging Engineering**

**MECH 4344 - Mechanical Controls**

**MECH 4345 - Design of Mechanisms**

**MECH 4346 - Adv Mechanical Controls**

**MECH 4350 - Principles of Biomechanics**

**MECH 4360 - Selection of Engr Materials**

**MECH 4365 - Biomaterials**

**MECH 4369 - Process Engineering**

**MECH 4371 - Mechanical Vibrations**

**MECH 4383 - Nondestructive Test I**

**MECH 4384 - Nondestructive Test II**

**MECH 4391 - Mechanical Engineering Proj**

**MECH 4393 - Appld Finite Element Analysis**

**MECH 4395 - Honors Thesis Proposal**

**MECH 4396 - Honors Thesis**

**MECH 4397 - Mechanical Engr Practicum**

**MECH 4990 - Special Topics in Mechanical Engineering**

**MECH 4991 - Special Topics in Mechanical Engineering**

**MECH 4992 - Special Topics in Mechanical Engineering**

**MECH 4993 - Special Topics in Mechanical Engineering**

**MECH 4994 - Special Topics in Mechanical Engineering**

**MECH 4995 - Special Topics in Mechanical Engineering**

**MECH 4996 - Special Topics in Mechanical Engineering**

**MECH 4997 - Special Topics in Mechanical Engineering**

**MECH 4998 - Special Topics in Mechanical Engineering**

## **Merchandising**

**MRCH 2000 - Visual Imaging for Fashion and Merchandising**

**MRCH 2004 - Tech Skills for Merchandising**

**MRCH 2005 - Introd to the Fashion Industry**

**MRCH 2010 - Textiles**

**MRCH 2106 - 3D Visual Merchandising**

**MRCH 2200 - Fashion Sketching and Illustration for Design**

**MRCH 3000 - Color and Basic Design Studies and Applications**

**MRCH 3050 - Costume History**

**MRCH 3075 - Basic Industry Sewing and Construction**

**MRCH 3100 - Pattern Drafting I**

**MRCH 3104 - Housing and Related Arts**

**MRCH 3204 - Residential Kitchen Planning**

**MRCH 3206 - Merchandising Systems**

**MRCH 3215 - Textiles Applications**

**MRCH 3217 - Readings/Merchandising**

**MRCH 3300 - Draping Techniques**

**MRCH 3400 - Computer Aided Fashion Drawing and Design**

**MRCH 3450 - Computer Patternmaking**

**MRCH 3600 - Consumer Engagement in the Digital Era**

**MRCH 3650 - Merchandise Buying**

**MRCH 4000 - Advanced Sewing Techniques**

**MRCH 4204 - Furnishing Prblms/Presentatns**

**MRCH 4205 - Behavioral Sci Aspects Clothng**

**MRCH 4217 - Rdngs: Family/Consumer Science**

**MRCH 4300 - Family Resource Management**

**MRCH 4304 - Trends Housing Home Furnishing**

**MRCH 4400 - Pattern Drafting II**

**MRCH 4500 - Advanced Computer Patternmaking**

**MRCH 4550 - Fit Analysis**

**MRCH 4560 - Trend Analysis and Styling Concepts**

**MRCH 4575 - Sourcing and Technical Design**

**MRCH 4600 - Senior Seminar**

**MRCH 4900 - Study Tour/FCS**

**MRCH 4920 - Special Topics in Merchandising**

**MRCH 4921 - Special Topics in Merchandising**

**MRCH 4922 - Special Topics in Merchandising**

**MRCH 4923 - Special Topics in Merchandising**

**MRCH 4924 - Special Topics in Merchandising**

**MRCH 4925 - Special Topics in Merchandising**

**MRCH 4926 - Special Topics in Merchandising**

**MRCH 4927 - Special Topics in Merchandising**

**MRCH 4928 - Special Topics in Merchandising**

**MRCH 4929 - Special Topics in Merchandising**

## **Military Science**

**ARMY 1100 - Leadership Laboratory**

**ARMY 1110 - Leadership/Personal Developmnt**

**ARMY 1115 - Leadership Laboratory**

**ARMY 1120 - Intro to Tactical Leadership**

**ARMY 2100 - Leadership Laboratory**

**ARMY 2115 - Leadership Laboratory**

**ARMY 2140 - Innovative Team Leadership**

**ARMY 2145 - Foundations Tactical Leadershp**

**ARMY 2190 - Leaders Training Course**

**ARMY 3100 - Leadership Laboratory**

**ARMY 3105 - American Military History**

**ARMY 3111 - Adaptive Tactical Lead I**

**ARMY 3115 - Advanced Leadership Laboratory**

**ARMY 3121 - Leadership in Changing Environ**

**ARMY 3190 - Leadership Development/Assess**

**ARMY 4100 - Advanced Leadership Laboratory**

**ARMY 4111 - Developing Adaptive Leaders**

**ARMY 4115 - Advanced Leadership Laboratory**

**ARMY 4121 - Leadership in Complex World**

**ARMY 4150 - Independent Study**

## **Music Appreciation**

**MUS 1030 - Introduction to Music**

**MUS 1040 - Music in America**

## **Music Education**

**MUSE 1101 - Class Inst Brass**

**MUSE 1103 - Class Inst Percussion**

**MUSE 1104 - Class Inst Woodwinds**

**MUSE 1112 - Class Inst Voice**

**MUSE 1116 - Class Instr Strings**

**MUSE 1119 - Guitar/Music Teacher**

**MUSE 2002 - Foundations Music Ed**

**MUSE 3101 - Functional Keyboard Skills**

**MUSE 3700 - Basic Conducting**

**MUSE 4201 - Individual Study Music Educatn**

**MUSE 4205 - Marching Band Technique**

**MUSE 4208 - Band Literature**

**MUSE 4209 - Piano Tuning/Repair**

**MUSE 4211 - Vocal Diction I**

**MUSE 4212 - Vocal Diction II**

**MUSE 4213 - Mat/Method/Elementary Music**

**MUSE 4215 - Jazz Ensemble Technique**

**MUSE 4251 - Guitar Pedagogy**

**MUSE 4260 - Special Topics in Music Education**

**MUSE 4261 - Special Topics in Music Education**

**MUSE 4262 - Special Topics in Music Education**

**MUSE 4263 - Special Topics in Music Education**

**MUSE 4264 - Special Topics in Music Education**

**MUSE 4265 - Special Topics in Music Education**

**MUSE 4266 - Special Topics in Music Education**  
**MUSE 4267 - Special Topics in Music Education**  
**MUSE 4268 - Special Topics in Music Education**  
**MUSE 4269 - Special Topics in Music Education**  
**MUSE 4403 - Material/Method Inst Musc Grades 9-12**  
**MUSE 4405 - Matrl/Method Choral Mus 7-12**  
**MUSE 4501 - Piano Pedagogy I**  
**MUSE 4503 - Piano Pedagogy II**  
**MUSE 4505 - Collab Piano Technique**  
**MUSE 4506 - Suzuki String Pedagogy I**  
**MUSE 4508 - Prin of Suzuki Piano**  
**MUSE 4509 - Suzuki String Pedagogy II**  
**MUSE 4510 - Suzuki String Pedagogy III**  
**MUSE 4511 - Class Piano Pedagogy**  
**MUSE 4513 - Suzuki String Pedagogy IV**  
**MUSE 4514 - Brass Pedagogy**  
**MUSE 4520 - Percussion Pedagogy**  
**MUSE 4521 - Woodwind Pedagogy**  
**MUSE 4523 - Vocal Pedagogy**  
**MUSE 4601 - Integrative Arts**  
**MUSE 4700 - Instrumental Conducting**  
**MUSE 4701 - Choral Conducting**  
**MUSE 4802 - Level I Orff-Schulwerk**  
**MUSE 4901 - Residency I**  
**MUSE 4911 - Residency II**  
**MUSE 4999 - Professional Seminar**

## **Music History, Literature, and Appreciation**

**MUHL 3301 - History of Music to 1750**

**MUHL 3302 - History of Music Since 1750**

**MUHL 3303 - Western Music History**

**MUHL 4001 - Piano Repertory**

**MUHL 4002 - Song Repertory I**

**MUHL 4003 - Song Repertory II**

**MUHL 4005 - History/Literature of Organ**

**MUHL 4008 - The Symphony**

**MUHL 4009 - Choral Literature I**

**MUHL 4010 - Choral Literature II**

**MUHL 4011 - String Quartet Literature**

**MUHL 4012 - Hist Chamber Music/Wind Instr**

**MUHL 4013 - Women and Music**

**MUHL 4014 - Chamber Music/Piano**

**MUHL 4015 - Guitar Literature**

**MUHL 4016 - Jazz Vocal Styles**

**MUHL 4020 - Solo Brass Literature**

**MUHL 4021 - American Amateur Brass Band**

**MUHL 4022 - Early Chamber Music**

**MUHL 4030 - Percussion Repertory**

**MUHL 4259 - Studies in Bibliography**

**MUHL 4260 - European Music Seminar**

**MUHL 4263 - Oratorio Literature**

**MUHL 4304 - Music History Review**

**MUHL 4406 - Music since 1900**

**MUHL 4407 - History of Opera**

**MUHL 4500 - String Repertory**

**MUHL 4800 - World Musical Styles**

**MUHL 4801 - American Folk/Popular Music**

**MUHL 4803 - Indiv Study in Music History**

**MUHL 4804 - Blues**

**MUHL 4805 - History of Rock and Roll**

**MUHL 4806 - History of Jazz**

**MUHL 4807 - Memphis Music**

**MUHL 4999 - Music History Senior Project**

## **Music Industry**

**MUID 1001 - Intro Music Technology**

**MUID 2201 - Intro to Music Industry**

**MUID 3103 - Contmp Songwrt/Prod Technique**

**MUID 3105 - Music Marketing & Management**

**MUID 3506 - Music Distribution**

**MUID 3704 - Recording Studio Tech/Practice**

**MUID 3705 - Cont Sngwrting/Prod Techniques**

**MUID 3800 - Recording Studio Technology**

**MUID 3801 - Digital Data Structures**

**MUID 3802 - Audio Rcrd/Non Tech Maj**

**MUID 3901 - Critical Listening I**

**MUID 3902 - Critical Listening II**

**MUID 3903 - Critical Listening III**

**MUID 3905 - Digital Audio Workstations**

**MUID 4201 - Studies in Commercial Music**

**MUID 4250 - Rec Studio Tech/Prac**

**MUID 4260 - Special Topics in Commercial Music**

**MUID 4604 - Legal Aspects Music Industry**

**MUID 4701 - Music Licensing/Publishing**

**MUID 4800 - Basic Recording**

**MUID 4801 - Problems in Commercial Music**

**MUID 4802 - Advanced Recording**



**MUID 4803 - Adv Mix/Master Audio**  
**MUID 4806 - Concert Sound Reinforcement**  
**MUID 4810 - Audio Production Practicum**  
**MUID 4811 - Studio Maintenance Practicum**  
**MUID 4812 - Concert Sound Practicum**  
**MUID 4820 - International Music Business**  
**MUID 4822 - Applied Lessons in Recording**  
**MUID 4825 - Concerts and Touring**  
**MUID 4830 - Trends Business Pract/Tech**  
**MUID 4833 - Applied Lessons in Mixing**  
**MUID 4840 - Entrepreneurship Comm Music**  
**MUID 4850 - Record Company Operations I**  
**MUID 4851 - Record Company Operations II**  
**MUID 4898 - Sr Proj Music Bus/Rec Technlgy**  
**MUID 4899 - Internship**

## **Music Theory and Composition**

**MUTC 1001 - Basic Music Theory**  
**MUTC 1008 - Music Theory I**  
**MUTC 1009 - Music Theory II**  
**MUTC 1010 - Ear Training I**  
**MUTC 1011 - Ear Training II**  
**MUTC 2008 - Music Theory III**  
**MUTC 2010 - Ear Training III**  
**MUTC 2103 - Theory Jazz/Pop/Commercial I**  
**MUTC 2501 - Composition**  
**MUTC 2502 - Composition**  
**MUTC 2503 - Comp/Arrange Jazz/Commercial I**  
**MUTC 2504 - Comp/Arrange Jazz/Commrcial II**

**MUTC 2511 - Electronic Music I**

**MUTC 3008 - Music Theory IV**

**MUTC 3009 - Ear Training IV**

**MUTC 3010 - Aural Theory V**

**MUTC 3101 - Orchestration**

**MUTC 3102 - Analysis of Tonal Music**

**MUTC 3109 - Analysis of Post-Tonal Music**

**MUTC 3201 - Jazz Arrange/Orchestration**

**MUTC 3301 - Commercial Music Arranging**

**MUTC 3501 - Comp/Arrang/Jazz/Comrcial III**

**MUTC 3701 - Theory/Musicianship I**

**MUTC 3702 - Theory/Musicianship II**

**MUTC 3825 - Material/Techniques Improv I**

**MUTC 3826 - Material/Techniques Improv II**

**MUTC 3827 - Material/Techniques Improv III**

**MUTC 4106 - Composition Proccses 20th Cent**

**MUTC 4202 - Music Theory Review**

**MUTC 4204 - Indiv Study Music Theory/Comp**

**MUTC 4205 - 16th Cent Counterpoint**

**MUTC 4206 - 18th Cent Counterpoint**

**MUTC 4209 - Advanced Orchestration**

**MUTC 4210 - Music Theory: Popular Styles**

**MUTC 4260 - Special Topics in Theory and Composition**

**MUTC 4261 - Special Topics in Theory and Composition**

**MUTC 4262 - Special Topics in Theory and Composition**

**MUTC 4263 - Special Topics in Theory and Composition**

**MUTC 4264 - Special Topics in Theory and Composition**

**MUTC 4265 - Special Topics in Theory and Composition**

**MUTC 4266 - Special Topics in Theory and Composition**

**MUTC 4267 - Special Topics in Theory and Composition**

**MUTC 4268 - Special Topics in Theory and Composition**

**MUTC 4269 - Special Topics in Theory and Composition**

**MUTC 4501 - Composition**

**MUTC 4502 - Comp For Non-Comp Major**

**MUTC 4503 - Comp/Arrange Jazz/Commrcial IV**

**MUTC 4504 - Intro Film/Video Score**

**MUTC 4511 - Electronic Music II**

**MUTC 4512 - Electronic Music III**

**MUTC 4599 - Senior Composition Recital**

**MUTC 4896 - Sr Prj Jazz Studio/Comp Arrang**

## **Naval Science**

**NAVY 1500 - Introduction to Naval Science**

**NAVY 1510 - Naval Leadership Laboratory**

**NAVY 1600 - Sea Power/Maritime Affairs**

**NAVY 1610 - Naval Leadership Laboratory**

**NAVY 2500 - Naval Leadership & Management**

**NAVY 2510 - Naval Leadership Laboratory**

**NAVY 2600 - Naval Ship Systems I/Engr**

**NAVY 2610 - Navy Leadership Laboratory**

**NAVY 3000 - Naval Science Institute**

**NAVY 3500 - Navigation**

**NAVY 3510 - Naval Leadership Laboratory**

**NAVY 3520 - Evolution of Warfare**

**NAVY 3600 - Naval Operations & Seamanship**

**NAVY 3610 - Naval Leadership Laboratory**

**NAVY 3620 - Officer Candidate School Prep**

**NAVY 4500 - Naval Ship Systems II/Weapons**

**NAVY 4510 - Naval Leadership Laboratory**  
**NAVY 4520 - Fundamentals of Maneuver Warfare**  
**NAVY 4600 - Naval Leadership and Ethics**  
**NAVY 4610 - Naval Leadership Laboratory**  
**NAVY 4710 - Naval Leadership Lab/5th Year**

## **Nursing**

**NURS 1030 - Fundmntls of Nursing**  
**NURS 1040 - Fundmtl/Nursing II**  
**NURS 1041 - Fndmtl/NURS II/Clinical**  
**NURS 1050 - Medical/Surgical Nursing I**  
**NURS 1051 - Med/Surgical NURS I/Clinical**  
**NURS 1060 - Mental Health Nursing**  
**NURS 1061 - Mental Health Nursing/Clinical**  
**NURS 3000 - Pharmacology in Nursing**  
**NURS 3005 - Intro Professional Nursing**  
**NURS 3006 - Professional Nursing Seminar**  
**NURS 3101 - Health Assessment**  
**NURS 3103 - Health Assessment Lab**  
**NURS 3105 - Foundations PT-Centered Care**  
**NURS 3106 - Foundational Nursing Skills**  
**NURS 3127 - Mental Health Nursing**  
**NURS 3129 - Mental Health Nurs Practicum**  
**NURS 3205 - Nurs Adult I/Common Hlth Alt**  
**NURS 3206 - Nursing Adult I/Practicum**  
**NURS 3217 - Nursing/Childbearing Family**  
**NURS 3219 - Nurs Childbearing Family Pract**  
**NURS 3227 - Pediatric Nursing**  
**NURS 3229 - Pediatric Nursing Practicum**

**NURS 3230 - Gerontological Nursing**  
**NURS 3231 - Gerontological Nurs Practicum**  
**NURS 3305 - Nurs Adult II/Complex Hlt Alt**  
**NURS 3306 - Nurs Adult II/Complex Pract**  
**NURS 3317 - Perioperative Nursing**  
**NURS 3319 - Perioperative Nurs Practicum**  
**NURS 3327 - Oncology Nursing**  
**NURS 3400 - Clinical Pathophysiology**  
**NURS 3900 - RN-BSN Experiential Learning**  
**NURS 4110 - Evidence Based Practice Nurs**  
**NURS 4127 - Community Health Nursing**  
**NURS 4129 - Community Hlth Nurs Practicum**  
**NURS 4137 - Emergency/Trauma Nursing**  
**NURS 4205 - Transition Professional Nurs**  
**NURS 4206 - Transition Prof Nurs Practicum**  
**NURS 4210 - Health Care Research**  
**NURS 4211 - Nursing Leadership/Management**  
**NURS 4212 - Trends/Issues/Nurs/Healthcare**  
**NURS 4213 - Community Health Nursing**  
**NURS 4230 - Nursing Content Mastery**  
**NURS 4300 - Special Topics in Nursing.**  
**NURS 4301 - Special Topics in Nursing.**  
**NURS 4302 - Special Topics in Nursing.**  
**NURS 4303 - Special Topics in Nursing.**  
**NURS 4304 - Special Topics in Nursing.**  
**NURS 4305 - Special Topics in Nursing.**  
**NURS 4306 - Special Topics in Nursing.**  
**NURS 4307 - Special Topics in Nursing.**  
**NURS 4308 - Special Topics in Nursing.**

**NURS 4309 - Special Topics in Nursing.**  
**NURS 4319 - Pop Focused Practicum/RNs**  
**NURS 4326 - Global Perspectives on Nursing**  
**NURS 4331 - Nursing/Diverse Culture**  
**NURS 4335 - Ethical Dialogue**  
**NURS 4800 - Independent Study**

## **Nutrition**

**NUTR 2102 - Intro to Dietetics**  
**NUTR 2202 - Nutrition**  
**NUTR 2302 - Introduction to Foods**  
**NUTR 2303 - Intro to Foods Laboratory**  
**NUTR 3002 - Advanced Human Metabolism I**  
**NUTR 3202 - Nutrition/Health Care**  
**NUTR 3502 - Adv Foods/Food Systems**  
**NUTR 4000 - Senior Seminar in Dietetics**  
**NUTR 4001 - Special Topics in Nutrition**  
**NUTR 4002 - Special Topics in Nutrition**  
**NUTR 4003 - Special Topics in Nutrition**  
**NUTR 4004 - Special Topics in Nutrition**  
**NUTR 4005 - Special Topics in Nutrition**  
**NUTR 4006 - Special Topics in Nutrition**  
**NUTR 4102 - Medical Nutrition Therapy I**  
**NUTR 4112 - Medical Nutrition Therapy II**  
**NUTR 4212 - Reading/Food/Nutrition**  
**NUTR 4322 - Adv Food/Beverage Mgmt**  
**NUTR 4332 - Purc/Financl Mgmt/Food System**  
**NUTR 4602 - Community Nutrition**  
**NUTR 4605 - Internship in Nutrition**

**NUTR 4702 - Food Production Internship**

**NUTR 4722 - Catering Internship**

**NUTR 4802 - Experimental Foods**

**NUTR 4803 - Experimental Foods Laboratory**

**NUTR 4812 - Adv Human Metabolism II**

**NUTR 4902 - Study Tour/Foods/Nutrition**

## **Open Learning Fire Services Program**

**PADM 3100 - Seminar Emergency Mgmt**

**PADM 3501 - Civic Engagement, Voluntarism**

**PADM 3601 - Public Admin**

**PADM 3610 - Personnel Mgmt Fire Service**

**PADM 3611 - Disaster Planning/Control**

**PADM 3612 - Fire Preven Org/Mgmt**

**PADM 3613 - Fire/Emergency Admin**

**PADM 3614 - Political/Legl Fnd Fire Prtctn**

**PADM 3615 - Community Risk Reduction**

**PADM 4101 - Political Statistics**

**PADM 4207 - Health Politics/Policy**

**PADM 4221 - Issues/Urban Admin**

**PADM 4225 - Application/Urban Admin**

**PADM 4226 - Intro Nonprofit Organizations**

**PADM 4227 - Issues/Nonprofit Admin**

**PADM 4228 - Grant Development/Management**

**PADM 4231 - Admin Internship**

**PADM 4401 - Comparative Public Adm**

**PADM 4412 - Neighborhood Dev/Social Entrep**

## **Philosophy**

**PHIL 121 - Elementary Ethics**

**PHIL 201 - Intro to World Religions**

**PHIL 210 - Intro To Philosophy**

**PHIL 1030 - Intro to Philosophy**

**PHIL 1101 - Fundamental Issues/Philosophy**

**PHIL 1102 - Values and Modern World**

**PHIL 1311 - Critical Thinking**

**PHIL 1611 - Elementary Logic**

**PHIL 2430 - Philosophy of Religion**

**PHIL 3001 - History of Ancient Philosophy**

**PHIL 3002 - History of Modern Philosophy**

**PHIL 3411 - Contemporary Moral Problems**

**PHIL 3451 - Existentialism**

**PHIL 3452 - Feminist Theory**

**PHIL 3453 - 19th/20th Century Continental**

**PHIL 3460 - Nature/Mind/Knowledge**

**PHIL 3511 - Ethical Theory**

**PHIL 3512 - Science/Technology/Human Values**

**PHIL 3514 - Biomedical Ethics**

**PHIL 3515 - Environmental Ethics**

**PHIL 3516 - Philosophy of Law**

**PHIL 3550 - Issues in Political Philosophy**

**PHIL 3571 - Business Ethics and Society**

**PHIL 3621 - Intermediate Logic**

**PHIL 3701 - Human and the Divine**

**PHIL 3702 - Philosophy of Religion**

**PHIL 3721 - Chinese Philosophy**

**PHIL 3741 - African American Philosophy**

**PHIL 3771 - Philosophy in Literature**



**PHIL 3772 - Critical Theory**  
**PHIL 3781 - Philosophy and Film**  
**PHIL 3880 - Problems in Philosophy**  
**PHIL 4211 - Ancient Philosophy**  
**PHIL 4311 - Modern Philosophy**  
**PHIL 4421 - Philosophy of Mind**  
**PHIL 4422 - Recent Anglo American Phil**  
**PHIL 4441 - Recent Continental Philosophy**  
**PHIL 4551 - Social and Political Philosophy**  
**PHIL 4632 - Advanced Logic**  
**PHIL 4661 - Philosophy of Science**  
**PHIL 4671 - Aesthetics**  
**PHIL 4801 - Special Topics In Philosophy**  
**PHIL 4802 - Special Topics In Philosophy**  
**PHIL 4803 - Special Topics In Philosophy**  
**PHIL 4804 - Special Topics In Philosophy**  
**PHIL 4805 - Special Topics In Philosophy**  
**PHIL 4806 - Special Topics In Philosophy**  
**PHIL 4807 - Special Topics In Philosophy**  
**PHIL 4808 - Special Topics In Philosophy**  
**PHIL 4809 - Special Topics In Philosophy**  
**PHIL 4810 - Special Topics In Philosophy**  
**PHIL 4811 - Special Topics In Philosophy**  
**PHIL 4812 - Special Topics In Philosophy**  
**PHIL 4813 - Special Topics In Philosophy**  
**PHIL 4814 - Special Topics In Philosophy**  
**PHIL 4815 - Special Topics In Philosophy**  
**PHIL 4816 - Special Topics In Philosophy**  
**PHIL 4817 - Special Topics In Philosophy**

**PHIL 4818 - Special Topics In Philosophy**

**PHIL 4819 - Special Topics In Philosophy**

**PHIL 4820 - Special Topics In Philosophy**

**PHIL 4891 - Senior Honors Thesis**

**PHIL 4994 - Reading and Research**

## **Physical Education**

**PHED 1003 - Aerobics**

**PHED 1004 - Jogging**

**PHED 1005 - Condtn: Varsity Sports**

**PHED 1006 - Water Aerobics**

**PHED 1007 - Yoga Stretching/Relaxation**

**PHED 1008 - Walking Health/Fitness**

**PHED 1009 - Fitness Thru Cross Training**

**PHED 1010 - Selected Physical Education Activities**

**PHED 1011 - Selected Physical Education Activities**

**PHED 1012 - Selected Physical Education Activities**

**PHED 1013 - Selected Physical Education Activities**

**PHED 1014 - Selected Physical Education Activities**

**PHED 1015 - Selected Physical Education Activities**

**PHED 1016 - Selected Physical Education Activities**

**PHED 1017 - Selected Physical Education Activities**

**PHED 1018 - Selected Physical Education Activities**

**PHED 1019 - Selected Physical Education Activities**

**PHED 1107 - Yoga II**

**PHED 1108 - Universal Survival Tech**

**PHED 1140 - Walking for Fitness**

**PHED 1141 - AbLab**

**PHED 1301 - Weight Train/Machines**

**PHED 1302 - Free Weights & Machines**

**PHED 1305 - Kettlebell**

**PHED 1331 - Camping**

**PHED 1333 - Backpacking**

**PHED 1334 - Rock Climbing**

**PHED 1336 - Orienteering**

**PHED 1340 - Intro To Fly Fishing**

**PHED 1361 - Horseback Riding**

**PHED 1412 - Judo**

**PHED 1413 - Self Defense Techniques**

**PHED 1414 - Intermediate Judo**

**PHED 1415 - Crossfit**

**PHED 1438 - Mixed Martial Arts**

**PHED 1439 - Brazilian JiuJitsu**

**PHED 1440 - Muay Thai**

**PHED 1441 - Karate**

**PHED 1442 - Advanced Karate**

**PHED 1443 - Aikido**

**PHED 1444 - Kickboxing**

**PHED 1445 - Tae Kwon Do**

**PHED 1446 - Tai Chi**

**PHED 1447 - Krav Maga**

**PHED 1461 - Modern Fencing**

**PHED 1463 - Intermed Modern Fencing**

**PHED 1464 - Padded Weapons**

**PHED 1500 - Table Tennis**

**PHED 1501 - Beginning Tennis**

**PHED 1502 - Intermediate Tennis**

**PHED 1521 - Racquetball**

**PHED 1522 - Intermediate Racquetball**

**PHED 1530 - Pickleball**

**PHED 1541 - Badminton**

**PHED 1561 - Bowling**

**PHED 1562 - Intermediate Bowling**

**PHED 1571 - Golf**

**PHED 1572 - Intermediate Golf**

**PHED 1710 - Aqua Zumba**

**PHED 1711 - Beginning Swimming I**

**PHED 1712 - Beginning Swim II**

**PHED 1713 - Intermediate Swim**

**PHED 1722 - Swim-Lifeguarding**

**PHED 1742 - Condition Thru Swimming**

**PHED 1743 - Triathlon Tech/Training**

**PHED 1744 - PiYo/Pilates/Yoga**

**PHED 1745 - ROTC Bootcamp**

**PHED 1771 - Scuba**

**PHED 1772 - Advanced Scuba**

**PHED 1782 - Kayaking**

**PHED 1783 - Canoeing**

**PHED 1784 - Sea Kayaking**

**PHED 1811 - Rhythms For Elem Sch**

**PHED 1814 - Ballroom Dancing**

**PHED 1815 - Hip Hop**

**PHED 1921 - Basketball**

**PHED 1923 - Volleyball**

**PHED 1924 - Intermediate Volleyball**

**PHED 1925 - Beach Volleyball**

**PHED 1926 - Rugby**

**PHED 1931 - Soccer and Fieldsports**

**PHED 1932 - Zumba**

**PHED 2703 - Teaching Swimming and WSI**

**PHED 3406 - Lifeguarding Instructors**

## **Physical Education Teacher Education**

**PETE 2000 - Introduction to PETE**

**PETE 2001 - Individual Fitness Teaching**

**PETE 2002 - Ed Games/Team Sport Skill**

**PETE 2003 - Skill Comp Individual Sport**

**PETE 2006 - Ed Gym/Movement Concepts**

**PETE 2009 - Ed Dance/Movement Concepts**

**PETE 2500 - Methods Techniques of Coaching**

**PETE 3307 - Psychosocial Aspect of Sport**

**PETE 3308 - Exceptional Learner Phys Ed**

**PETE 3604 - Teach Phys Ed/Health/K-Middle**

**PETE 3800 - Instr Strategies Phys Ed**

**PETE 3903 - Hist/Phil Aspect/Phys Activity**

**PETE 4200 - Curr/Integrate Learn Elem PE**

**PETE 4201 - Curr/Integ Learn/EI PE Well**

**PETE 4300 - Curr/Aspect Lrng Secondary Ed**

**PETE 4301 - Curr/Integ Learn/Sec PE/Well**

**PETE 4400 - Learner Assessmnt in PE**

**PETE 4401 - Learner Assessment PE/Well**

**PETE 4501 - Residency I Practicum PE/Well**

**PETE 4601 - Residency II Seminar PE/Well**

**PETE 4605 - Intern/PETE/Community PE**

**PETE 4701 - Residency II Practicum PE/Well**

**PETE 4800 - Prof Seminar Leaders PE**

**PETE 4909 - Student Teaching in PETE**

## **Physics**

**PHYS 1001 - Introductory Physics Lab**

**PHYS 1002 - Astronomy Laboratory**

**PHYS 1010 - Introductory Physics**

**PHYS 1020 - Survey of Astronomy I**

**PHYS 1030 - Concepts of Phys W/Lab**

**PHYS 1031 - Astronomy II Laboratory**

**PHYS 1040 - Intro to Careers in Physics**

**PHYS 1301 - Astronomy II**

**PHYS 2010 - General Physics I/Trig**

**PHYS 2011 - General Physics Lab I**

**PHYS 2020 - General Physics II/Trig**

**PHYS 2021 - Gen Physics Lab II**

**PHYS 2110 - Sci/Engr Phys I/Calc**

**PHYS 2111 - Sci/Engr Phys Lab I**

**PHYS 2120 - Sci/Engr Phys II/Calc**

**PHYS 2121 - Sci/Engr Phys Lab II**

**PHYS 2130 - Intermediate Physics**

**PHYS 2990 - Research in Physics I**

**PHYS 3010 - Intro Modern Physics**

**PHYS 3011 - Methods of Theoretical Phys I**

**PHYS 3012 - Methods of Theoretical Phys II**

**PHYS 3060 - Advanced Physics Methodology**

**PHYS 3111 - Mechanics I**

**PHYS 3211 - Electricity/Magnetism I**

**PHYS 3990 - Research in Physics II**

**PHYS 4000 - Special Topics in Physics**

**PHYS 4001 - Special Topics in Physics**  
**PHYS 4002 - Special Topics in Physics**  
**PHYS 4003 - Special Topics in Physics**  
**PHYS 4004 - Special Topics in Physics**  
**PHYS 4005 - Special Topics in Physics**  
**PHYS 4006 - Special Topics in Physics**  
**PHYS 4007 - Special Topics in Physics**  
**PHYS 4008 - Special Topics in Physics**  
**PHYS 4009 - Special Topics in Physics**  
**PHYS 4020 - Soft Matter/Biological Physics**  
**PHYS 4021 - Applied Radiation Physics**  
**PHYS 4040 - Medical Physics**  
**PHYS 4050 - Astrophysics I**  
**PHYS 4051 - Astrophysics II**  
**PHYS 4110 - Nuclear Physics**  
**PHYS 4112 - Mechanics II**  
**PHYS 4211 - Waves and Optics**  
**PHYS 4212 - Electric/Magnetism II**  
**PHYS 4222 - Environmental Physics**  
**PHYS 4230 - Electronics**  
**PHYS 4410 - Intro Quantum Theory**  
**PHYS 4420 - Intro Computational Physics**  
**PHYS 4510 - Thermal and Statistical Phys**  
**PHYS 4610 - Solid State Physics**  
**PHYS 4620 - Device Physics and Microfabric**  
**PHYS 4720 - Materials Physics**  
**PHYS 4820 - Materials Physics Lab**  
**PHYS 4910 - Seminar**  
**PHYS 4911 - Senior Honors Seminar**

**PHYS 4914 - Research Methods/Tigers Teach**

**PHYS 4990 - Research in Physics III**

**PHYS 4991 - Honors Research/Phys I**

**PHYS 4992 - Honors Research/Phys II**

**PHYS 4994 - Research in Materials Physics**

**PHYS 4999 - Senior Honors Thesis**

## **Political Science**

**POLS 1020 - Intro to Political Science**

**POLS 1030 - American Government**

**POLS 1101 - Intro Ancient Political Thgt**

**POLS 1102 - Intro Modern Political Thought**

**POLS 1301 - Intro to Comparative Politics**

**POLS 1501 - International Relations**

**POLS 2010 - State and Local Government**

**POLS 3010 - Comparative Politics**

**POLS 3102 - Religion and Politics**

**POLS 3211 - State/Local Government**

**POLS 3213 - Intro to Public Policy**

**POLS 3215 - Interest Groups/Amer Politics**

**POLS 3216 - Political Parties/Elections**

**POLS 3217 - The Political Media**

**POLS 3218 - The American Presidency**

**POLS 3219 - Judicial Process**

**POLS 3220 - U. S. Congress**

**POLS 3221 - Public Opinion**

**POLS 3302 - West Europe Govt/Politics**

**POLS 3306 - Latin American Govt/Politics**

**POLS 3309 - Govt/Politics of Mid East**



**POLS 3310 - Politics/Developed World**  
**POLS 3320 - Human Rights/World Politics**  
**POLS 3325 - Politics/Developing World**  
**POLS 3330 - Politics/Globalization**  
**POLS 3340 - Power/Politics/State**  
**POLS 3401 - Legal/Pol Thght Classical**  
**POLS 3402 - Legal/Political Thght Modern**  
**POLS 3405 - Intro Law/Jurisprudence**  
**POLS 3410 - Contemporary Political Thght**  
**POLS 3415 - Feminist Political Theory**  
**POLS 3420 - Race and Politics in U.S.**  
**POLS 3505 - International Organizations**  
**POLS 3506 - American Foreign Policy**  
**POLS 3507 - Terrorism**  
**POLS 3509 - Contmp Prblm Intl Relation**  
**POLS 3700 - Special Topics in Contemporary Politics**  
**POLS 3701 - Special Topics in Contemporary Politics**  
**POLS 3702 - Special Topics in Contemporary Politics**  
**POLS 3703 - Special Topics in Contemporary Politics**  
**POLS 3704 - Special Topics in Contemporary Politics**  
**POLS 3705 - Special Topics in Contemporary Politics**  
**POLS 3706 - Special Topics in Contemporary Politics**  
**POLS 3707 - Special Topics in Contemporary Politics**  
**POLS 3708 - Special Topics in Contemporary Politics**  
**POLS 3709 - Special Topics in Contemporary Politics**  
**POLS 4101 - Political Statistics**  
**POLS 4200 - Envrnmntl Law/Policy/Regulatn**  
**POLS 4211 - Const Law/National Powers**  
**POLS 4212 - Const Law Civil Liberty**

**POLS 4222 - Urban Politics**  
**POLS 4223 - Issues/Urban Politics**  
**POLS 4230 - Legislative Interns**  
**POLS 4231 - Admin Internship**  
**POLS 4307 - Govt and Pol Communist China**  
**POLS 4315 - Revolution/Political Violence**  
**POLS 4317 - Democratic Transitions**  
**POLS 4399 - Res & Studies Abroad**  
**POLS 4405 - Origin/Dev Amer Pol Thought**  
**POLS 4415 - African-Am Pol Thght to 1900**  
**POLS 4416 - African-Am Pol Tht from 1900**  
**POLS 4504 - International Law**  
**POLS 4506 - Prob American Foreign Policy**  
**POLS 4508 - Theories Internatl Relations**  
**POLS 4510 - Politics of Global Economy**  
**POLS 4511 - International Security**  
**POLS 4512 - Global Environmental Politics**  
**POLS 4701 - Policy Perspectives**  
**POLS 4702 - Independent Study**  
**POLS 4709 - Mock Trial**  
**POLS 4710 - Special Topics in Political Science**  
**POLS 4711 - Special Topics in Political Science**  
**POLS 4712 - Special Topics in Political Science**  
**POLS 4713 - Special Topics in Political Science**  
**POLS 4714 - Special Topics in Political Science**  
**POLS 4715 - Special Topics in Political Science**  
**POLS 4716 - Special Topics in Political Science**  
**POLS 4717 - Special Topics in Political Science**  
**POLS 4718 - Special Topics in Political Science**

**POLS 4719 - Special Topics in Political Science**

**POLS 4820 - Political History of Israel**

**POLS 4999 - Senior Thesis**

## **Portuguese**

**PORT 3301 - Conversation/Culture I**

**PORT 3311 - Conversation/Culture II**

**PORT 4024 - Brazilian Short Story**

## **Psychology**

**PSYC 215 - Child Growth/Development**

**PSYC 223 - Psychology of Aging**

**PSYC 1030 - General Psychology**

**PSYC 1300 - Careers in Psychology**

**PSYC 2110 - Psychology of Adjustment**

**PSYC 2120 - Social Psychology**

**PSYC 2130 - Life Span Psychology**

**PSYC 3010 - Research and Statistics I**

**PSYC 3020 - Research and Statistics II**

**PSYC 3101 - Psychology of Personality**

**PSYC 3102 - Abnormal Psychology**

**PSYC 3103 - Child Psychology**

**PSYC 3106 - Social Psychology**

**PSYC 3108 - Positive Psychology**

**PSYC 3210 - Abnormal Psychology**

**PSYC 3236 - Psychology of Gender**

**PSYC 3303 - Thinking/Cognitive Processes**

**PSYC 3304 - Perceptual Psychology**

**PSYC 3305 - Psyc Learning/Memory**

**PSYC 3306 - Physiological Psyc**  
**PSYC 3307 - Animal Behavior**  
**PSYC 3506 - Human Sexuality**  
**PSYC 3507 - Alcohol/Drugs/Behavior**  
**PSYC 3508 - Indust/Organizatnl Psyc**  
**PSYC 3509 - Applying Psyc/Community**  
**PSYC 3510 - Deviance/Role History**  
**PSYC 3512 - Health Psychology**  
**PSYC 3520 - Legal/Forensic Psyc**  
**PSYC 3530 - Psychology of Language**  
**PSYC 3601 - Psychology of Evil**  
**PSYC 3700 - Peer Advising**  
**PSYC 3900 - Practicum in General Psyc**  
**PSYC 4010 - Special Topics in Psychology**  
**PSYC 4011 - Special Topics in Psychology**  
**PSYC 4012 - Special Topics in Psychology**  
**PSYC 4013 - Special Topics in Psychology**  
**PSYC 4014 - Special Topics in Psychology**  
**PSYC 4015 - Special Topics in Psychology**  
**PSYC 4016 - Special Topics in Psychology**  
**PSYC 4017 - Special Topics in Psychology**  
**PSYC 4018 - Special Topics in Psychology**  
**PSYC 4019 - Special Topics in Psychology**  
**PSYC 4020 - Special Topics in Psychology**  
**PSYC 4021 - Special Topics in Psychology**  
**PSYC 4022 - Special Topics in Psychology**  
**PSYC 4023 - Special Topics in Psychology**  
**PSYC 4024 - Special Topics in Psychology**  
**PSYC 4025 - Special Topics in Psychology**

**PSYC 4026 - Special Topics in Psychology**  
**PSYC 4027 - Special Topics in Psychology**  
**PSYC 4028 - Special Topics in Psychology**  
**PSYC 4029 - Special Topics in Psychology**  
**PSYC 4030 - Issues Psychotherapy Rsrch**  
**PSYC 4032 - Research Methodology**  
**PSYC 4034 - Children Soc Relationships**  
**PSYC 4040 - Honors Special Topics**  
**PSYC 4041 - Honors Special Topics**  
**PSYC 4042 - Honors Special Topics**  
**PSYC 4043 - Honors Special Topics**  
**PSYC 4044 - Honors Special Topics**  
**PSYC 4045 - Honors Special Topics**  
**PSYC 4046 - Honors Special Topics**  
**PSYC 4047 - Honors Special Topics**  
**PSYC 4048 - Honors Special Topics**  
**PSYC 4049 - Honors Special Topics**  
**PSYC 4101 - History of Psychology**  
**PSYC 4102 - Abnormal Child Psych**  
**PSYC 4305 - Mind/Brain/Intelligence**  
**PSYC 4401 - Intro to Clinical Psychology**  
**PSYC 4503 - Special Problems in Psyc**  
**PSYC 4504 - Directed Research**  
**PSYC 4505 - Special Prob/Behav Neurosci**  
**PSYC 4506 - Direct Rsch Behav Neuro**  
**PSYC 4507 - Psyc Internship**  
**PSYC 4513 - Psychology of Grief/Loss**  
**PSYC 4994 - Senior Thesis**  
**PSYC 4995 - Honors Sr Thesis/Behav Neuro**

**PSYC 4996 - Honors Senior Thesis**

**PSYC 4997 - Senior Thesis/Behav Neurosci**

**PSYC 4998 - Sr Thesis/Cognitive Science**

**PSYC 4999 - Honors Sr Thesis/Cognitive Sc**

## **Public Health**

**PUBH 3101 - Environ Health in the Media**

**PUBH 3102 - Epidemics: The Plague to Ebola**

**PUBH 4101 - Healthcare in America**

**PUBH 4707 - Internl Health Problems/Issue**

## **Public Relations**

**PBRL 3400 - Survey of Public Relations**

**PBRL 3409 - Public Relations Case Studies**

**PBRL 3421 - Public Relations Writing**

**PBRL 4301 - Event Management/HPRM & PR**

**PBRL 4410 - Public Relations Research**

**PBRL 4421 - Crisis Comm in Public Relation**

**PBRL 4431 - Music Promo/Public Relations**

**PBRL 4440 - Public Relations Campaigns**

## **Reading**

**RDNG 3001 - Literacy Tutoring**

**RDNG 4240 - Literacy in Grades K-4**

**RDNG 4241 - Literacy in Grades 4-8**

## **Religious Studies**

**RLGN 1100 - Introduction to Religion**

**RLGN 3100 - Perspectives on Religion**

**RLGN 4010 - Directed Readings**

**RLGN 4050 - Special Topics in Religious Studies**  
**RLGN 4051 - Special Topics in Religious Studies**  
**RLGN 4052 - Special Topics in Religious Studies**  
**RLGN 4053 - Special Topics in Religious Studies**  
**RLGN 4054 - Special Topics in Religious Studies**  
**RLGN 4055 - Special Topics in Religious Studies**  
**RLGN 4056 - Special Topics in Religious Studies**  
**RLGN 4057 - Special Topics in Religious Studies**  
**RLGN 4058 - Special Topics in Religious Studies**  
**RLGN 4059 - Special Topics in Religious Studies**  
**RLGN 4060 - Special Topics in Religious Studies**  
**RLGN 4061 - Special Topics in Religious Studies**  
**RLGN 4062 - Special Topics in Religious Studies**  
**RLGN 4063 - Special Topics in Religious Studies**  
**RLGN 4064 - Special Topics in Religious Studies**  
**RLGN 4065 - Special Topics in Religious Studies**  
**RLGN 4066 - Special Topics in Religious Studies**  
**RLGN 4067 - Special Topics in Religious Studies**  
**RLGN 4068 - Special Topics in Religious Studies**  
**RLGN 4069 - Special Topics in Religious Studies**  
**RLGN 4070 - Special Topics in Religious Studies**  
**RLGN 4071 - Special Topics in Religious Studies**  
**RLGN 4072 - Special Topics in Religious Studies**  
**RLGN 4073 - Special Topics in Religious Studies**  
**RLGN 4074 - Special Topics in Religious Studies**  
**RLGN 4075 - Special Topics in Religious Studies**  
**RLGN 4990 - Capstone Project**

## **Russian**

**RUSS 1010 - Elementary Russian I**  
**RUSS 1020 - Elementary Russian II**  
**RUSS 2010 - Intermediate Russian I**  
**RUSS 2020 - Intermediate Russian II**  
**RUSS 3301 - Conversation and Composition**  
**RUSS 3302 - Conversation and Composition**  
**RUSS 4780 - Individual Study Russian**  
**RUSS 4791 - Special Topics in Russian**  
**RUSS 4792 - Special Topics in Russian**  
**RUSS 4793 - Special Topics in Russian**  
**RUSS 4794 - Special Topics in Russian**  
**RUSS 4795 - Special Topics in Russian**  
**RUSS 4796 - Special Topics in Russian**  
**RUSS 4797 - Special Topics in Russian**  
**RUSS 4798 - Special Topics in Russian**  
**RUSS 4799 - Special Topics in Russian**

## **Sacred Music**

**MUSA 4260 - Special Topics in Sacred Music**  
**MUSA 4261 - Special Topics in Sacred Music**  
**MUSA 4262 - Special Topics in Sacred Music**  
**MUSA 4263 - Special Topics in Sacred Music**  
**MUSA 4264 - Special Topics in Sacred Music**  
**MUSA 4265 - Special Topics in Sacred Music**  
**MUSA 4266 - Special Topics in Sacred Music**  
**MUSA 4267 - Special Topics in Sacred Music**  
**MUSA 4268 - Special Topics in Sacred Music**  
**MUSA 4269 - Special Topics in Sacred Music**

## **Social Work**



**SWRK 245 - Introduction to Counseling**

**SWRK 2010 - Introduction to Social Work**

**SWRK 2011 - Writing for Social Work**

**SWRK 2911 - Soc Response to Human Need**

**SWRK 3902 - Human Behavior/Soc Envrnmnt**

**SWRK 3903 - Social Work Practice I**

**SWRK 3904 - Social Work Practice II**

**SWRK 3906 - Social Work Practice III**

**SWRK 3920 - Soc Welfare Policy/Programs**

**SWRK 3930 - Intro Soc Work Research**

**SWRK 4060 - Social Work Integrated Health**

**SWRK 4061 - Substance Abuse Treatment**

**SWRK 4830 - Field Instruction Soc Work I**

**SWRK 4831 - Field Instruction Soc Work II**

**SWRK 4833 - Religion/Spiritly SWRK Prac**

**SWRK 4840 - Integrative Field Seminar I**

**SWRK 4841 - Integrative Field Seminar II**

**SWRK 4911 - Special Topics in Social Work**

**SWRK 4912 - Special Topics in Social Work**

**SWRK 4913 - Special Topics in Social Work**

**SWRK 4914 - Special Topics in Social Work**

**SWRK 4915 - Special Topics in Social Work**

**SWRK 4916 - Special Topics in Social Work**

**SWRK 4917 - Special Topics in Social Work**

**SWRK 4918 - Special Topics in Social Work**

**SWRK 4919 - Special Topics in Social Work**

**SWRK 4933 - Directed Ind Study**

**SWRK 4934 - Child Welfare Policy/Services**

**SWRK 4935 - Child Welfare II**

**SWRK 4937 - School Social Work**

**SWRK 4939 - Mental Health Concepts**

**SWRK 4940 - Grief and Loss**

## **Sociology**

**SOCI 1010 - Introduction to Sociology**

**SOCI 2100 - Sociology of Globalization**

**SOCI 3112 - Contemporary Social Problems**

**SOCI 3311 - Social Statistics**

**SOCI 3322 - Methods of Social Research**

**SOCI 3401 - Social Inequality**

**SOCI 3420 - Sociology of the South**

**SOCI 3422 - Racial/Ethnc Minorities**

**SOCI 3432 - Sociology of Gender**

**SOCI 3501 - Sociology of Deviant Behavior**

**SOCI 3540 - Gambling and Society**

**SOCI 3541 - Criminology**

**SOCI 3701 - Individual and Society**

**SOCI 3820 - Sociology of Education**

**SOCI 3831 - Marriage and Family**

**SOCI 3860 - Sociology of Religion**

**SOCI 3940 - Social Change**

**SOCI 4210 - Rise of Sociological Theory**

**SOCI 4211 - Contemp Sociological Theory**

**SOCI 4312 - Intermediate Social Stat**

**SOCI 4413 - Global/Culture/Info Technology**

**SOCI 4420 - Racial Inequality**

**SOCI 4425 - Environmental Sociology**

**SOCI 4442 - Sociology of Poverty**

**SOCI 4460 - Black/White Women in South**  
**SOCI 4510 - Intro to Social Research**  
**SOCI 4541 - Sociology of Aging**  
**SOCI 4631 - Cities in Change**  
**SOCI 4641 - Sociology/Global Environment**  
**SOCI 4842 - Sociology/Occup/Professions**  
**SOCI 4851 - Medical Sociology**  
**SOCI 4852 - Sociology of Mental Illness**  
**SOCI 4912 - Directed Indiv Study**  
**SOCI 4996 - Public Sociology Seminar**  
**SOCI 4997 - Internship in Sociology**  
**SOCI 4998 - Honors Thesis**  
**SOCI 4999 - Senior Thesis Seminar**

## **Spanish**

**SPAN 1010 - Elementary Spanish I**  
**SPAN 1020 - Elementary Spanish II**  
**SPAN 2010 - Intermediate Spanish I**  
**SPAN 2020 - Intermediate Spanish II**  
**SPAN 3000 - Spanish Integrated Skills**  
**SPAN 3301 - Conversation**  
**SPAN 3303 - Composition**  
**SPAN 3308 - Spanish Phonetics**  
**SPAN 3311 - Intrmdiate Conversation**  
**SPAN 3312 - Adv Conversation**  
**SPAN 3313 - Advanced Composition**  
**SPAN 3550 - Latin America Country & People**  
**SPAN 4306 - Applied Span Linguistics**  
**SPAN 4307 - Adv Grammar/Writing**

**SPAN 4308 - Adv Grammar/Speech**  
**SPAN 4310 - Spanish of Heritage Speakers**  
**SPAN 4410 - Spanish Lit and Civilization**  
**SPAN 4431 - Contemporary Spanish Prose**  
**SPAN 4432 - Contemp Spanish Poetry/Drama**  
**SPAN 4510 - Spanish Amer Lit/Civilization**  
**SPAN 4561 - Pre-Contemp Span Amer Fiction**  
**SPAN 4562 - Contemporary Span Amer Fiction**  
**SPAN 4563 - Hispanic Literature Genres**  
**SPAN 4701 - Spanish for Commerce I**  
**SPAN 4702 - Spanish for Commerce II**  
**SPAN 4703 - Languages/Cultures/Communities**  
**SPAN 4704 - Spanish for Healthcare**  
**SPAN 4780 - Individual Study Spanish**  
**SPAN 4790 - Special Topics in Literature and Linguistics**  
**SPAN 4791 - Special Topics in Literature and Linguistics**  
**SPAN 4792 - Special Topics in Literature and Linguistics**  
**SPAN 4793 - Special Topics in Literature and Linguistics**  
**SPAN 4794 - Special Topics in Literature and Linguistics**  
**SPAN 4795 - Special Topics in Literature and Linguistics**  
**SPAN 4796 - Special Topics in Literature and Linguistics**  
**SPAN 4797 - Special Topics in Literature and Linguistics**  
**SPAN 4798 - Special Topics in Literature and Linguistics**  
**SPAN 4799 - Special Topics in Literature and Linguistics**

## **Special Education**

**SPED 2000 - Foundation/Exceptional Learn**  
**SPED 2010 - Intro to Comm Disorders**  
**SPED 2030 - Speech Language Phonetics**

**SPED 2060 - Speech Therapy/Public School**  
**SPED 3002 - Indep Study Special Educ**  
**SPED 3201 - Behv Supt Stdnt Diverse Set**  
**SPED 3310 - Disorders of Speech**  
**SPED 3401 - Academic Support Diverse Lrns**  
**SPED 3410 - Disorders of Language**  
**SPED 3420 - Intro to Audiology**  
**SPED 3440 - Non Verbal Comm/Stdnt Disability**  
**SPED 3501 - Suprt Stdnt/Mental Retardation**  
**SPED 3610 - Speech Therapy Methods**  
**SPED 3800 - Methods I/Instruct/Literacy**  
**SPED 3801 - Practicum/Inclusive Settings**  
**SPED 3802 - Ed Assessment/Inclusive Set**  
**SPED 3803 - Classroom/Behavior Management**  
**SPED 3804 - SPED Methods II. Content Area**  
**SPED 4000 - Meth/Mat Modrt/Severe Dis**  
**SPED 4001 - Modrt/Sevr Dsbilty Practicum**  
**SPED 4010 - Anatomy/Physiology Spch/Hear**  
**SPED 4020 - Language/Comm/Diverse Classrm**  
**SPED 4050 - Diagnostic Proc/Therapy Technq**  
**SPED 4101 - Special Topics in Special Education**  
**SPED 4102 - Special Topics in Special Education**  
**SPED 4103 - Special Topics in Special Education**  
**SPED 4104 - Special Topics in Special Education**  
**SPED 4105 - Special Topics in Special Education**  
**SPED 4106 - Special Topics in Special Education**  
**SPED 4107 - Special Topics in Special Education**  
**SPED 4108 - Special Topics in Special Education**  
**SPED 4109 - Special Topics in Special Education**

**SPED 4110 - Special Topics in Special Education**

**SPED 4111 - Intro/Apppl Behav Analysis**

**SPED 4112 - Assess/Measure/Apppl Behav Anly**

**SPED 4113 - Appl Behav Intervent/Strateg**

**SPED 4114 - Practitioner Issues/ABA**

**SPED 4513 - Assistive Tech/Trans Instruc**

**SPED 4601 - Student Phys/Health Dis**

**SPED 4801 - Workshop in Special Education**

**SPED 4802 - Workshop in Special Education**

**SPED 4803 - Workshop in Special Education**

**SPED 4804 - Workshop in Special Education**

**SPED 4805 - Workshop in Special Education**

**SPED 4806 - Workshop in Special Education**

**SPED 4807 - Workshop in Special Education**

**SPED 4808 - Workshop in Special Education**

**SPED 4809 - Workshop in Special Education**

**SPED 4810 - Workshop in Special Education**

**SPED 4900 - Consultation Schl/Fmly/Cmtly**

## **Sport and Leisure Commerce**

**SLC 4001 - Sport Sales/Revenue Prod I**

**SLC 4002 - Sport Sales/Revenue Prod II**

**SLC 4622 - Fan Behavior/Rivalry**

**SLC 4800 - Adv Computer Apps in SPRT**

## **Sport and Leisure Management**

**SLS 1005 - Condtion/Leadership:Vars Sports**

**SLS 2105 - Foundation/Sport/Leisure Mgt**

**SLS 2605 - Field Experience in SLM**

**SLS 3005 - Computer Applctn Sport/Leisure**  
**SLS 3103 - Outdoor Rec/Ed Urban America**  
**SLS 3104 - Commercial Rec and Tourism**  
**SLS 3105 - Sport/Leisure as Pop Culture**  
**SLS 3141 - Experiential Learning Credit**  
**SLS 3202 - Park/Recreation Resource Mgmt**  
**SLS 3204 - Org Analysis Sport/Leisure**  
**SLS 3205 - Venue Planning and Management**  
**SLS 3305 - Leisure/Recreation Prog Devlp**  
**SLS 3600 - Event Management**  
**SLS 3605 - Financial Management SLS**  
**SLS 3650 - Promotions in Sport & Leisure**  
**SLS 3905 - Leisure/Recr Disabilities**  
**SLS 4001 - Park/Rec Visitor Mgmt**  
**SLS 4105 - Leadership in Leisure Services**  
**SLS 4125 - Gender/Race/Class Urb Sp/Lei**  
**SLS 4135 - Sport/Culture Global Perspect**  
**SLS 4141 - Chronology of Sport**  
**SLS 4155 - Sport/Leisure Governance**  
**SLS 4165 - Sport/Global City**  
**SLS 4175 - Internationl Persp Sport Mgmt**  
**SLS 4205 - Legal Aspects SLM**  
**SLS 4500 - Sport/Leisure Mktg**  
**SLS 4509 - Christianity Culture Sport/Rec**  
**SLS 4603 - Administration of Athletics**  
**SLS 4605 - Senior SLM Capstone Experience**

## **Supply Chain Management Sciences**

**SCMS 2610 - Introduction to Supply Chain Management**

**SCMS 2710 - Business Analytics -Statistics**

**SCMS 3510 - Operations Management**

**SCMS 3620 - Logistics Management**

**SCMS 3650 - Supply Management**

**SCMS 3711 - Business Analytics - Tools**

**SCMS 4510 - Operations Planning and Resources Management**

**SCMS 4511 - Supply Chain Strategy**

**SCMS 4512 - Current Topics in Supply Chain Management**

**SCMS 4810 - Problems in Supply Chain Management**

**SCMS 4811 - Internship in Supply Chain Management**

**SCMS 4996 - Senior Honors Thesis**

## **Teacher Education ESL**

**TEAE 4020 - Read Write Learn Methods ESL**

**TEAE 4260 - Teach ESL w/Internet Tech**

**TEAE 4300 - Multicultural Education**

**TEAE 4437 - Assessment for ESL**

**TEAE 4500 - Linguistics**

**TEAE 4501 - Modern English Grammar**

**TEAE 4550 - Latin Amer/Country/Peop**

## **Teacher Education Licensure**

**TELC 2007 - Adolescent/Adult Learner**

**TELC 2008 - Learning thru Assessment/Eval**

**TELC 2009 - Learn Env'n School Set**

**TELC 2010 - Survey of Excep and Diversity**

**TELC 2011 - Teaching & Learning w/Tech Sch**

**TELC 2012 - Agents/Change In School**

**TELC 2013 - Adult Learner**



**TELC 2014 - Learn Environ/Post Secd**

**TELC 2015 - Excptnl/Diverse Post Sc**

**TELC 2016 - Agent/Change/Post Secon**

**TELC 4001 - Adolescent Development**

**TELC 4002 - Assessment/Evaluation**

**TELC 4003 - Managing Learning Environment**

**TELC 4004 - Survey Exceptional Children**

**TELC 4005 - Teaching and Learning w/Tech**

**TELC 4006 - Teacher/Agent Of Change**

### **Teacher Education Special**

**TEAS 4001 - Col Prac/Trnd/Issue/Char Sp Ed**

**TEAS 4003 - Assess Procedure in Special Ed**

**TEAS 4004 - Appl Behavior Interven/Suppt**

**TEAS 4005 - Read Methods Across Curriculum**

**TEAS 4006 - Assistive Technology**

**TEAS 4007 - Math Method Across Curr**

**TEAS 4008 - Teach Mild/Moderate**

**TEAS 4009 - Adaptive PE in Special Educ**

**TEAS 4010 - Methods Instruct/Teach Compre**

**TEAS 4011 - Assess/Infant/Toddlers**

**TEAS 4012 - Instruction: Early Child/Sp Ed**

### **Engineering Technology**

**TECH 1010 - Computer Applications in Tech**

**TECH 1211 - Computer Programming**

**TECH 1411 - Introduction to Technology**

**TECH 1521 - Graphics/Descriptive Geometry**

**TECH 1711 - Manufacturing Process I**

**TECH 1811 - Electronic Circuit Technology**  
**TECH 2251 - Adv Programming Technology**  
**TECH 2261 - Data Structures**  
**TECH 2812 - Basic Industrial Control Device**  
**TECH 2813 - Industrial Control Systems**  
**TECH 2821 - Solid State Technology**  
**TECH 2822 - Circuit Analysis**  
**TECH 2831 - Advanced Solid State Tech**  
**TECH 3044 - Analysis for Engineering Tech**  
**TECH 3232 - Digital Technology**  
**TECH 3233 - Microprocessor Technology**  
**TECH 3241 - Internet Technology**  
**TECH 3251 - Assembly Language Program**  
**TECH 3281 - Computer Aided Circuit Design**  
**TECH 3386 - Occupational Safety**  
**TECH 3401 - Strength of Materials**  
**TECH 3408 - Industrial Materials**  
**TECH 3421 - Manufacturing Process II**  
**TECH 3440 - Project Plan/Cost Evaluation**  
**TECH 3462 - Industrial Statistics**  
**TECH 3573 - Dynamics/Design/Automation**  
**TECH 3691 - Construction Estimating**  
**TECH 3811 - Electronic Communication**  
**TECH 3812 - Adv Electronic Comm Technology**  
**TECH 3821 - Industrial Electronics**  
**TECH 3822 - Programmable Logic Control**  
**TECH 3841 - Electrical Power/Motor Control**  
**TECH 3940 - Analysis/Public Fire Protect**  
**TECH 3942 - Fire Related Human Factors**

**TECH 3944 - Fire Protect Struc/Sys Design**  
**TECH 3945 - Fire Investigation/Analysis**  
**TECH 3946 - Fire Dynamics**  
**TECH 3947 - Application of Fire Research**  
**TECH 3948 - Managerial Issues/Hazard Mtrl**  
**TECH 4234 - Microproc Interface Technology**  
**TECH 4242 - Client Application Technology**  
**TECH 4262 - Modern Programming**  
**TECH 4263 - Server Application Technology**  
**TECH 4272 - Operating Systems**  
**TECH 4281 - Computer Network Technology**  
**TECH 4381 - Principles of Supervision**  
**TECH 4401 - Science/Technology/Society**  
**TECH 4460 - Work Design/Improvement**  
**TECH 4462 - Quality Improvement**  
**TECH 4463 - Quality Systems**  
**TECH 4464 - Production Control Systems**  
**TECH 4466 - Facility Design**  
**TECH 4472 - Computer Aided Design**  
**TECH 4474 - Automation and Robotics**  
**TECH 4476 - Computer Aided Manufacturing**  
**TECH 4510 - Construction Planning/Schedule**  
**TECH 4571 - Tool Design**  
**TECH 4821 - Microwave Technology**  
**TECH 4823 - Adv Programmable Logic Control**  
**TECH 4943 - Senior Project Plan Seminar**  
**TECH 4944 - Senior Thesis**  
**TECH 4945 - Senior Project**  
**TECH 4990 - Special Topics**

**TECH 4991 - Special Topics**  
**TECH 4992 - Special Topics**  
**TECH 4993 - Special Topics**  
**TECH 4994 - Special Topics**  
**TECH 4995 - Special Topics**  
**TECH 4996 - Special Topics**  
**TECH 4997 - Special Topics**  
**TECH 4998 - Special Topics**  
**TECH 4999 - Engineering Tech Projects**

## **Theatre**

**THEA 1030 - Intro to Theatre**  
**THEA 1561 - Introduction to Design**  
**THEA 2501 - Stage Movement**  
**THEA 2503 - Basic Keyboard Skills/Actors**  
**THEA 2504 - Singing for the Actor**  
**THEA 2511 - Intro Theatre Production**  
**THEA 2512 - Intro Theatre Graphics**  
**THEA 2514 - Theatre Drafting**  
**THEA 2515 - Stage Makeup**  
**THEA 2530 - Acting/Non-Majors**  
**THEA 2532 - Acting I**  
**THEA 3200 - Musical Theatre Applied Voice**  
**THEA 3212 - Dynamics/Vocal Prod I**  
**THEA 3213 - Dynamics/Vocal Prod II**  
**THEA 3412 - Directing Experiments**  
**THEA 3505 - Movement Styles**  
**THEA 3506 - Stage Combat**  
**THEA 3511 - Stagecraft**

**THEA 3515 - Costume Construction**  
**THEA 3531 - Acting II**  
**THEA 3532 - Acting III**  
**THEA 3551 - Audition Prep Performance**  
**THEA 3561 - Principles Scene Design**  
**THEA 3562 - Principles Costume Dsgn**  
**THEA 3563 - Principles of Light & Sound Design**  
**THEA 3601 - Mgmt/Publicity Prod Lab**  
**THEA 3602 - Costumes Production Lab**  
**THEA 3603 - Lighting Production Lab**  
**THEA 3604 - Sound Production Lab**  
**THEA 3605 - Scenery Production Lab**  
**THEA 3606 - Props Production Lab**  
**THEA 3608 - Dance Production Lab**  
**THEA 3609 - Stage Management Lab**  
**THEA 3620 - Stage Management Skills**  
**THEA 3621 - Introduction to Prop Craft**  
**THEA 4209 - Advanced Scenic Production**  
**THEA 4210 - Special Topics in Theatre**  
**THEA 4211 - Special Topics in Theatre**  
**THEA 4212 - Special Topics in Theatre**  
**THEA 4213 - Special Topics in Theatre**  
**THEA 4214 - Special Topics in Theatre**  
**THEA 4215 - Special Topics in Theatre**  
**THEA 4216 - Special Topics in Theatre**  
**THEA 4217 - Special Topics in Theatre**  
**THEA 4218 - Special Topics in Theatre**  
**THEA 4219 - Special Topics in Theatre**  
**THEA 4220 - Acting/Musical Theatre**

**THEA 4221 - Stage Dialects**  
**THEA 4222 - Asian Theatre**  
**THEA 4223 - Musical Theatre Performance Practicum**  
**THEA 4224 - Principle/Music Theory/Theatre**  
**THEA 4441 - Performance Repertory**  
**THEA 4455 - Directing Narrative Theatre**  
**THEA 4457 - Vocal Style/Performance**  
**THEA 4501 - Adv Movement Styles**  
**THEA 4503 - Creative Dramatics**  
**THEA 4511 - Automation & Mechanization**  
**THEA 4512 - Digital Rendering**  
**THEA 4513 - Digital Fabrication**  
**THEA 4514 - Theatre Rendering Techniques**  
**THEA 4515 - Scene Painting**  
**THEA 4516 - Technical Direction**  
**THEA 4517 - Scene Painting II**  
**THEA 4521 - Principles of Stage Direction**  
**THEA 4531 - Acting Styles**  
**THEA 4532 - Mask Performance**  
**THEA 4541 - Internship**  
**THEA 4542 - Dramatic Literature I**  
**THEA 4543 - Dramatic Literature II**  
**THEA 4544 - Gay and Lesbian Dramatic Lit**  
**THEA 4544 - Thea/African Diaspora**  
**THEA 4548 - Musical Theatre History**  
**THEA 4549 - Theatre History**  
**THEA 4553 - Individual Studies Thtr**  
**THEA 4554 - Visual History I**  
**THEA 4555 - Scenic Technology**

**THEA 4556 - Lighting Technology**  
**THEA 4557 - Costume Technology**  
**THEA 4558 - Visual History II**  
**THEA 4561 - Scenic Design I**  
**THEA 4562 - Lighting Design I**  
**THEA 4563 - Costume Design I**  
**THEA 4565 - Costume Design II**  
**THEA 4568 - Sound Design II**  
**THEA 4571 - Playwriting**  
**THEA 4573 - Costume Technology II**  
**THEA 4575 - Scenic Design II**  
**THEA 4577 - Lighting Design II**  
**THEA 4578 - Projection Design & Control**  
**THEA 4582 - Script Interpretation**  
**THEA 4591 - Professional Theatre Practice**  
**THEA 4592 - Theatre Architec/Facility Plan**  
**THEA 4596 - Sound Design I**  
**THEA 4631 - Acting for Film and TV**  
**THEA 4982 - Honors Seminar**  
**THEA 4999 - Senior Honors Thesis**

## **University College**

**COBH 4707 - International Health/Prob/Iss**  
**UNIV 1005 - Directed Study**  
**UNIV 1500 - Career Skill Build/Workforce**  
**UNIV 2110 - Field Experience**  
**UNIV 2555 - Intro Creativity/Innov/Design**  
**UNIV 2860 - Cultural Confrontations H/P**  
**UNIV 2900 - Experiential Learning Intern**

**UNIV 3100 - Seminar in Emergency Management**

**UNIV 3303 - Phil/Theory of Leadership**

**UNIV 3304 - Leadership & Social Change**

**UNIV 3500 - Thematic Studies**

**UNIV 3501 - Thematic Studies**

**UNIV 3502 - Thematic Studies**

**UNIV 3503 - Thematic Studies**

**UNIV 3504 - Thematic Studies**

**UNIV 3505 - Thematic Studies**

**UNIV 3506 - Thematic Studies**

**UNIV 3507 - Thematic Studies**

**UNIV 3508 - Thematic Studies**

**UNIV 3509 - Thematic Studies**

**UNIV 3510 - Thematic Studies**

**UNIV 3511 - Thematic Studies**

**UNIV 3512 - Thematic Studies**

**UNIV 3513 - Thematic Studies**

**UNIV 3514 - Thematic Studies**

**UNIV 3515 - Thematic Studies**

**UNIV 3516 - Thematic Studies**

**UNIV 3517 - Thematic Studies**

**UNIV 3518 - Thematic Studies**

**UNIV 3519 - Thematic Studies**

**UNIV 3520 - Thematic Studies**

**UNIV 3521 - Thematic Studies**

**UNIV 3522 - American Cinema**

**UNIV 3523 - Thematic Studies**

**UNIV 3524 - Thematic Studies**

**UNIV 3525 - Thematic Studies**



**UNIV 3526 - War & American Society**  
**UNIV 3527 - Thematic Studies**  
**UNIV 3528 - Thematic Studies**  
**UNIV 3529 - Thematic Studies**  
**UNIV 3530 - Thematic Studies**  
**UNIV 3531 - Am Exp: Image/Narrative**  
**UNIV 3532 - Thematic Studies**  
**UNIV 3533 - Thematic Studies**  
**UNIV 3534 - Theatre & Therapy**  
**UNIV 3535 - Family Communication**  
**UNIV 3536 - Thematic Studies**  
**UNIV 3537 - Thematic Studies**  
**UNIV 3538 - Thematic Studies**  
**UNIV 3539 - Thematic Studies**  
**UNIV 3540 - Ethics & Professionalism**  
**UNIV 3541 - Thematic Studies**  
**UNIV 3542 - Baseball in America**  
**UNIV 3543 - Thematic Studies**  
**UNIV 3544 - Thematic Studies**  
**UNIV 3545 - Thematic Studies**  
**UNIV 3546 - Thematic Studies**  
**UNIV 3547 - Thematic Studies**  
**UNIV 3548 - Thematic Studies**  
**UNIV 3549 - Thematic Studies**  
**UNIV 3550 - Clash of Cultures**  
**UNIV 3551 - Thematic Studies**  
**UNIV 3552 - Thematic Studies**  
**UNIV 3553 - Thematic Studies**  
**UNIV 3554 - Thematic Studies**

**UNIV 3555 - Thematic Studies**  
**UNIV 3556 - Thematic Studies**  
**UNIV 3557 - Thematic Studies**  
**UNIV 3558 - Thematic Studies**  
**UNIV 3559 - Thematic Studies**  
**UNIV 3560 - Thematic Studies**  
**UNIV 3561 - Thematic Studies**  
**UNIV 3562 - Thematic Studies**  
**UNIV 3563 - Thematic Studies**  
**UNIV 3564 - Thematic Studies**  
**UNIV 3565 - Comparative Christianity**  
**UNIV 3566 - Thematic Studies**  
**UNIV 3567 - Thematic Studies**  
**UNIV 3568 - Thematic Studies**  
**UNIV 3569 - Thematic Studies**  
**UNIV 3570 - Thematic Studies**  
**UNIV 3571 - Thematic Studies**  
**UNIV 3572 - Thematic Studies**  
**UNIV 3573 - Thematic Studies**  
**UNIV 3574 - Thematic Studies**  
**UNIV 3575 - Thematic Studies**  
**UNIV 3576 - Thematic Studies**  
**UNIV 3577 - Thematic Studies**  
**UNIV 3578 - Thematic Studies**  
**UNIV 3579 - Thematic Studies**  
**UNIV 3580 - Hebrew and Greek Legacy**  
**UNIV 3581 - Faith/Reason/Imagination**  
**UNIV 3582 - Thematic Studies**  
**UNIV 3583 - Thematic Studies**

**UNIV 3584 - Thematic Studies**  
**UNIV 3585 - Critical Themes Old Testament**  
**UNIV 3586 - Thematic Studies**  
**UNIV 3587 - Thematic Studies**  
**UNIV 3588 - Thematic Studies**  
**UNIV 3589 - Thematic Studies**  
**UNIV 3590 - New Testament**  
**UNIV 3591 - Thematic Studies**  
**UNIV 3592 - Thematic Studies**  
**UNIV 3593 - Thematic Studies**  
**UNIV 3594 - Thematic Studies**  
**UNIV 3595 - Thematic Studies**  
**UNIV 3596 - Thematic Studies**  
**UNIV 3597 - Thematic Studies**  
**UNIV 3598 - Thematic Studies**  
**UNIV 3599 - Thematic Studies**  
**UNIV 3700 - Special Topics**  
**UNIV 3701 - Special Topics**  
**UNIV 3702 - Special Topics**  
**UNIV 3703 - Special Topics**  
**UNIV 3704 - Special Topics**  
**UNIV 3705 - Special Topics**  
**UNIV 3706 - Special Topics**  
**UNIV 3707 - Special Topics**  
**UNIV 3708 - Special Topics**  
**UNIV 3709 - Special Topics**  
**UNIV 3710 - Special Topics**  
**UNIV 3711 - Special Topics**  
**UNIV 3712 - Special Topics**

**UNIV 3714 - Special Topics**  
**UNIV 3715 - Special Topics**  
**UNIV 3716 - Special Topics**  
**UNIV 3717 - Special Topics**  
**UNIV 3718 - Special Topics**  
**UNIV 3719 - Special Topics**  
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**UNIV 3721 - Special Topics**  
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**UNIV 3726 - Special Topics**  
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**UNIV 3730 - Special Topics**  
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**UNIV 3732 - Special Topics**  
**UNIV 3733 - Special Topics**  
**UNIV 3734 - Special Topics**  
**UNIV 3735 - Special Topics**  
**UNIV 3736 - Special Topics**  
**UNIV 3737 - Special Topics**  
**UNIV 3738 - Special Topics**  
**UNIV 3739 - Special Topics**  
**UNIV 3740 - Critical Thinking/Professions**  
**UNIV 3900 - Experiential Learning Adv**  
**UNIV 4110 - Internship**

**UNIV 4300 - Leadership Training for Student Development**

**UNIV 4310 - Leadership Training in Student Recruitment**

**UNIV 4380 - Independent Study**

**UNIV 4500 - Advanced Thematic Studies**

**UNIV 4501 - Advanced Thematic Studies**

**UNIV 4502 - Advanced Thematic Studies**

**UNIV 4503 - Advanced Thematic Studies**

**UNIV 4504 - Advanced Thematic Studies**

**UNIV 4505 - Advanced Thematic Studies**

**UNIV 4506 - The Chinese**

**UNIV 4507 - Advanced Thematic Studies**

**UNIV 4508 - Advanced Thematic Studies**

**UNIV 4509 - Advanced Thematic Studies**

**UNIV 4510 - Advanced Thematic Studies**

**UNIV 4511 - Holocaust Studies**

**UNIV 4512 - Advanced Thematic Studies**

**UNIV 4513 - Advanced Thematic Studies**

**UNIV 4514 - Advanced Thematic Studies**

**UNIV 4515 - Advanced Thematic Studies**

**UNIV 4516 - Advanced Thematic Studies**

**UNIV 4517 - Advanced Thematic Studies**

**UNIV 4518 - Literature Of Americas**

**UNIV 4519 - Advanced Thematic Studies**

**UNIV 4520 - Mind/Brain/Intelligence**

**UNIV 4521 - Advanced Thematic Studies**

**UNIV 4522 - Advanced Thematic Studies**

**UNIV 4523 - Advanced Thematic Studies**

**UNIV 4524 - Advanced Thematic Studies**

**UNIV 4525 - Advanced Thematic Studies**

**UNIV 4526 - Advanced Thematic Studies**  
**UNIV 4527 - The Developing Adult**  
**UNIV 4528 - Advanced Thematic Studies**  
**UNIV 4529 - Advanced Thematic Studies**  
**UNIV 4530 - Advanced Thematic Studies**  
**UNIV 4531 - Advanced Thematic Studies**  
**UNIV 4532 - Advanced Thematic Studies**  
**UNIV 4533 - Advanced Thematic Studies**  
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**UNIV 4548 - Advanced Thematic Studies**  
**UNIV 4549 - Advanced Thematic Studies**  
**UNIV 4550 - Advanced Thematic Studies**  
**UNIV 4551 - Advanced Thematic Studies**  
**UNIV 4552 - Advanced Thematic Studies**  
**UNIV 4553 - Advanced Thematic Studies**  
**UNIV 4554 - Advanced Thematic Studies**

**UNIV 4555 - Advanced Thematic Studies**  
**UNIV 4556 - Advanced Thematic Studies**  
**UNIV 4557 - Advanced Thematic Studies**  
**UNIV 4558 - Advanced Thematic Studies**  
**UNIV 4559 - Advanced Thematic Studies**  
**UNIV 4560 - Advanced Thematic Studies**  
**UNIV 4561 - Advanced Thematic Studies**  
**UNIV 4562 - Advanced Thematic Studies**  
**UNIV 4563 - Advanced Thematic Studies**  
**UNIV 4564 - Advanced Thematic Studies**  
**UNIV 4565 - Advanced Thematic Studies**  
**UNIV 4566 - Advanced Thematic Studies**  
**UNIV 4567 - Advanced Thematic Studies**  
**UNIV 4568 - Advanced Thematic Studies**  
**UNIV 4569 - Advanced Thematic Studies**  
**UNIV 4570 - Advanced Thematic Studies**  
**UNIV 4571 - Advanced Thematic Studies**  
**UNIV 4572 - Advanced Thematic Studies**  
**UNIV 4573 - Advanced Thematic Studies**  
**UNIV 4574 - Advanced Thematic Studies**  
**UNIV 4575 - Advanced Thematic Studies**  
**UNIV 4576 - Advanced Thematic Studies**  
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**UNIV 4589 - Advanced Thematic Studies**  
**UNIV 4590 - Advanced Thematic Studies**  
**UNIV 4591 - Advanced Thematic Studies**  
**UNIV 4592 - Advanced Thematic Studies**  
**UNIV 4593 - Advanced Thematic Studies**  
**UNIV 4594 - Advanced Thematic Studies**  
**UNIV 4595 - Advanced Thematic Studies**  
**UNIV 4596 - Advanced Thematic Studies**  
**UNIV 4597 - Advanced Thematic Studies**  
**UNIV 4598 - Advanced Thematic Studies**  
**UNIV 4599 - Advanced Thematic Studies**  
**UNIV 4700 - Czech Culture and History**  
**UNIV 4701 - Advanced Special Topics**  
**UNIV 4702 - Advanced Special Topics**  
**UNIV 4703 - Advanced Special Topics**  
**UNIV 4704 - Advanced Special Topics**  
**UNIV 4705 - Advanced Special Topics**  
**UNIV 4706 - Advanced Special Topics**  
**UNIV 4706 - Managing Software Development**  
**UNIV 4707 - Advanced Special Topics**  
**UNIV 4708 - Advanced Special Topics**  
**UNIV 4708 - Business Intelligence**  
**UNIV 4709 - Advanced Special Topics**  
**UNIV 4810 - Software Project Management**



**UNIV 4830 - Israeli/Arab Conflict**

**UNIV 4995 - Senior Project**

## **University Honors College**

**UNHP 1100 - The Honors Forum**

**UNHP 1101 - Humanities/Global Challenge**

**UNHP 1102 - Social Scien/Global Challenge**

**UNHP 3001 - Literacy Tutoring**

**UNHP 3114 - Honors Thesis Workshop**

**UNHP 3261 - Costa Rican Culture**

**UNHP 3407 - Evolutionary Perspective**

**UNHP 4150 - Econ of Social Issues**

**UNHP 4900 - Adv Honors Projects**

**UNHP 4901 - Special Topics in University Honors**

**UNHP 4999 - Honors Thesis**

## **Women's and Gender Studies**

**WMST 2100 - Intr/Women/Gender Study**

**WMST 3000 - Multicultural Women's Lit**

**WMST 4340 - Independent Study**

**WMST 4380 - Special Topics in Women's and Gender Studies**

**WMST 4381 - Special Topics in Women's and Gender Studies**

**WMST 4382 - Special Topics in Women's and Gender Studies**

**WMST 4383 - Special Topics in Women's and Gender Studies**

**WMST 4384 - Special Topics in Women's and Gender Studies**

**WMST 4385 - Special Topics in Women's and Gender Studies**

**WMST 4386 - Special Topics in Women's and Gender Studies**

**WMST 4387 - Special Topics in Women's and Gender Studies**

**WMST 4388 - Special Topics in Women's and Gender Studies**

**WMST 4389 - Special Topics in Women's and Gender Studies**

**WMST 4390 - Special Topics in Women's and Gender Studies**

**WMST 4391 - Special Topics in Women's and Gender Studies**

**WMST 4392 - Special Topics in Women's and Gender Studies**

**WMST 4393 - Special Topics in Women's and Gender Studies**

**WMST 4394 - Special Topics in Women's and Gender Studies**

**WMST 4395 - Special Topics in Women's and Gender Studies**

**WMST 4396 - Special Topics in Women's and Gender Studies**

**WMST 4397 - Special Topics in Women's and Gender Studies**

**WMST 4398 - Special Topics in Women's and Gender Studies**

**WMST 4399 - Special Topics in Women's and Gender Studies**

## **TN eCampus**

**ACCT 1010 - Principles of Accounting I**

**ACCT 1020 - Principles of Accounting II**

**AGRI 1010 - Introduction to Agribusiness**

**BIOL 1430 - Nutrition**

**BIOL 2230 - Intro to Microbiology w/Lab**

**BIOL 3100 - Genetics**

**BIOL 3120 - General Ecology**

**BIOL 3549 - Ecology For Teachers**

**BIOL 4303 - Survey/Anat/Physiology**

**BIOL 4417 - Teach Science/Secondary**

**BIOL 4418 - Biol Lab/Endorse Progm**

**BMGT 3600 - International Mgmt**

**BMGT 3630 - Human Resource Mgmt**

**BUSN 1340 - Small Business Management**

**CITC 1320 - A+ Hardware & Software**

**CSCI 2300 - Essentials of Info Security**

**CSCI 3222 - Database Mgmt System**  
**CSCI 4017 - Intro to Information Assurance**  
**ECON 2030 - Survey Of Economics**  
**ENGL 1113 - Intro To Research**  
**ENGL 1114 - Technical Editing**  
**ENGL 2010 - Intro to Literature I: Fiction**  
**ENGL 2030 - Experience of Literature**  
**ENGL 2110 - American Literature I**  
**ENGL 2112 - Technical Reprt Writing**  
**ENGL 2114 - Writing For Industry**  
**ENGL 2116 - Writing for the Web**  
**ENGL 2120 - American Literature II**  
**ENGL 2210 - English Literature I**  
**ENGL 2220 - English Literature II**  
**ENGL 2300 - Creative Writing**  
**ENGL 2310 - World Literature to 1650**  
**ENGL 2320 - World Lit Since 1650**  
**ENGL 2410 - Western World Lit I**  
**ENGL 2420 - Western World Lit II**  
**ENGL 2530 - African American Literature**  
**ENGL 2630 - Literature for Children**  
**ENGL 3134 - Computer/Writing/Lit**  
**ENGL 3250 - Professional Comm**  
**ENGL 3290 - Intro to Film**  
**ENGL 3410 - Classic Mythology**  
**ENGL 3730 - 20th Century Women Writers**  
**ENGL 4100 - Writing Internet & Elect Media**  
**ENGL 4680 - Continental Literature**  
**ENGL 4700 - Non Western Literature**

**INFS 192 - A+Software Cert Training**  
**INFS 1010 - Computer Applications**  
**INFS 1100 - Technology for Teachers**  
**INFS 3700 - Systems Analysis and Design**  
**INFS 4900 - Business Data Communications**  
**JOUR 4250 - Mass Media Law**  
**JOUR 4712 - Media and Cultures**  
**LIST 4093 - Special Topics/Leadership**  
**MATH 990 - Foundations Of Geometry**  
**MATH 1005 - Algebra Essentials**  
**MATH 1010 - Mathematics for Liberal Arts**  
**MATH 1130 - College Algebra**  
**MATH 1410 - Number Concepts for Elem Ed**  
**MATH 1630 - Finite Mathematics**  
**MATH 2010 - Intro Linear Algebra**  
**MGMT 3030 - Mgmt/Service Organizatn**  
**MGMT 3220 - Mgmt of Info Systems**  
**MGMT 3610 - Princ Mgmt/Organ Behav**  
**MGMT 4800 - Corporate Etiquette**  
**ORCO 3240 - Organizational Comm**  
**PM 3240 - Public Budget/Fin/Mgmt**  
**PM 4120 - Organization Theory and Behav**  
**POLI 3620 - Comparative European Govt**  
**POLI 4230 - The Presidency**  
**POLI 4350 - International Law**  
**PS 3330 - Pol Parties/Elect Sys**  
**PS 3350 - Interest Groups**  
**PS 3510 - Internl Political Economy**  
**PS 4240 - American Foreign Policy**

**PTMA 3020 - Managing Information Tech**

**PTMA 3500 - Perform/Prod Assessment**

**SOAA 3350 - Social Statistics**

**SOCI 217 - Sociology of Aging**

**SOCI 1020 - Social Problems**

**SOCI 1120 - Intro Cultural Anthropology**

**SOCI 2010 - Marriage and Family**

**TELC 4008 - Special Methods of Instruction and Teaching Mild-Mod**

## **Other Courses**

**ARTH 4168 - Art & Social Conflict 1920-Present**

**SW 3170 - Family Caregiving**

**SW 3200 - Cultural Diversity**

## **College/Degree Programs**

The following section contains the specific requirements for completing each degree, major, concentration and minor offered by the University. It is organized by college and department. Students are urged to consult with an advisor for assistance in planning their degree programs and selecting appropriate courses.

### **Major**

#### **Accounting, (B.B.A.)**

##### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) with a minimum grade of "C", ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) are specified for the B.B.A. degree.

##### **College and Degree (B.B.A.) Requirements**

##### **Lower Division Business Core Curriculum (21 hours)**

No grade below "C" and 2.5 GPA in the following Lower Division Business Core

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

24 upper division semester hours in Accounting courses as follows:

- ACCT 3110 - Intermediate Accounting I
- ACCT 3120 - Intermediate Accounting II
- ACCT 3310 - Cost Accounting

- ACCT 3510 - Federal Income Tax I
- ACCT 4020 - Accounting Systems
- ACCT 4130 - Intermediate Accounting III
- ACCT 4240 - Audit/Assurance Services
  - 3 hours of accounting elective

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Accounting Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities/Fine Arts (3) \*
  - Humanities/Fine Arts (3) \*
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - History (3) \*
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1421 - Honors Calculus I
  
- or
  
- MATH 1910 - Calculus I

Semester Totals 28-30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - Natural Science (4) \*

- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
  - History (3) \*
- ECON 2010 - Intro to Macroeconomics
  - Elective (3)

## Semester Totals 32 hrs

## Junior Year

- ACCT 3130 - Legal/Social/Political Environ
- ACCT 3110 - Intermediate Accounting I
- ACCT 3310 - Cost Accounting
- SCMS 3711 - Business Analytics - Tools
- MIS 3210 - Critical Thinking Using Analytics
- ACCT 3120 - Intermediate Accounting II
- ACCT 3510 - Federal Income Tax I
- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt
- ACCT 4020 - Accounting Systems

## Semester Totals 30 hrs

## Senior Year

- ACCT 4130 - Intermediate Accounting III
- Elective (3)
- FIR 3410 - Financial Management
  - ACCT elective (3)
- MKTG 3010 - Principles of Marketing
  - INTL Bus Elective (3)
- ACCT 4240 - Audit/Assurance Services
  - Elective (3)
- MGMT 4710 - Strategic Management
- SCMS 3510 - Operations Management



Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Advertising (B.A.)**

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

Bachelor of Arts (B.A.) (6-9 hours)

Students must take at least 42 hours but may not exceed 48 hours of coursework in the department of Journalism and Strategic Media. The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

Journalism and Strategic Media Core (21 hours)

Major Core (15 hours)

Completion of

- JRSM 1700 - Survey of Media
- JRSM 1750 - Precision Language
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
- JRSM 4700 - Media Law

One of the Following (3 Hours):

- JRSM 4702 - Media, Diversity & Society
- JRSM 4704 - Issues in Sport and Media

- JRSM 4708 - Media Ethics
- JRSM 4716 - Media History
- JRSM 4720 - Presidents and the Press

Select one from (3 hours):

- JRSM 4930 - Media Internship
- or
- JRSM 4940 - Student Media Practicum

Advertising (24 Journalism and Strategic Media and 6 Marketing hours):

- ADVR 3300 - Survey of Advertising
- ADVR 3310 - Branding and Strategic Media
- ADVR 3324 - Creative Strategy
- ADVR 4326 - Advertising Research
- ADVR 4327 - Media Planning
- ADVR 4328 - Strategic Adv Campaigns
- JOUR 4900 - Advanced Visual Media

ADVR/JOUR/JRSM/PBRL elective (3)

- MKTG 3010 - Principles of Marketing
- MKTG 3012 - Consumer Behavior

Electives (13 hours)

Completion of courses to bring the total to 120 semester hours.

Typical 4-Year Advertising Sequence

Freshman Year

- JRSM 1700 - Survey of Media \*\*
- JRSM 1750 - Precision Language
  - Foreign Language/B.A. (3)
  - Social/Behavioral Sciences (3) \*
- ENGL 1010 - English Composition
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
  - Foreign Language/B.A. (3)
  - Fine Arts (3) \*

- ENGL 1020 - English Comp/Analysis

## Semester Totals 30 hrs

## Sophomore Year

- ADVR 3300 - Survey of Advertising
  - Non-JRSM Elective (Minor) (3)
  - Foreign Language/B.A. (3)
  - History (3) \*
- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American
- ADVR 3310 - Branding and Strategic Media
  - Humanities/Fine Arts (3)\*
  - Natural Science (4) \*
  - Foreign Language/B.A. (3)
  - MATH (3) \*

## Semester Totals 31 hrs

## Junior Year

- ADVR 3324 - Creative Strategy
- MKTG 3010 - Principles of Marketing
  - Natural Science (4) \*
  - History (3) \*
  - Non-JRSM Elective (Minor) (3)
- JOUR 4900 - Advanced Visual Media
- MKTG 3012 - Consumer Behavior
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM elective (Minor) (3)
- COMM 2381 - Oral Communication

## Semester Totals 31 hrs

## Senior Year

- ADVR 4326 - Advertising Research
- ADVR 4327 - Media Planning
  - Non-JOUR Elective (Minor) (3)
  - Non-JOUR Elective (Minor) (1)
- JRSM 4700 - Media Law
- ADVR 4328 - Strategic Adv Campaigns

- JRSM 4930 - Media Internship or
- JRSM 4940 - Student Media Practicum
  - UD JRSM Elective (3)
  - ADVR/JOUR/JRSM/PBRL elective (3)
  - Non-JRSM Elective (Minor) (3)

Semester Totals 28 hrs

Total Hours: 120

Internship elective highly recommended last semester to enhance employability and complete minimum of 120 hours for degree.

Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*JRSM 1700 fulfills Social Science General Education Requirement

## **African and African American Studies, (B.A.)**

Program objectives for a B.A. in African and African American Studies are to: (a) define the term "diaspora" and describe the history, scope and impact of the post-Renaissance diaspora of African peoples; (b) critique the experiences of African and African American women within the context of the collective experiences of Africans and African Americans and the world as a whole; (c) apply methodological approaches and analytical skills used in the humanities, the social and behavioral sciences, or the arts to the study of the experiences of Africans and people of African descent in the Diaspora; (d) demonstrate an understanding of the links between African cultural institutions and those of people of African descent in the Diaspora; (e) compare and contrast the history and cultures of peoples of Africa to the history and cultures of peoples of African descent in the Diaspora.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

### **College and Degree (B.A.) Requirements (6-9 hours)**

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements and are listed above.

## The Major (30 hours)

### Major Core (18 hours):

#### Completion of

- AAAS 2100 - Intro Afr/Afr American Study
- AAAS 3100 - Research Method/Afr American

### Or One of the Following:

- ANTH 4010 - Ethnographic Methods
- CJUS 3130 - Research Methods CJUS
- COMM 3330 - Communication Research Methods
- SOCI 3322 - Methods of Social Research

#### Completion of

- AAAS 4100 - Seminar Afr/Afr Amer Studies and one course selected from each concentration (9 hours).

### Concentration (12 hours):

#### Humanities:

- AAAS 4351 - Ghanaian Hist/Culture
- ENGL 3325 - Af/Am Lit thru Harlem Ren
- ENGL 3326 - Af/Am Lit since Harlem Ren
- ENGL 4372 - Af/Am Author/Harlem Ren
- ENGL 4373 - Af/Am Author since Harlem Ren
- ENGL 4374 - African-Amer Lit Movements
- ENGL 4521 - Language and Society
- HIST 3233 - Caribbean History
- HIST 3273 - Islamic History to 1405
- HIST 3281 - History/Africa to 1500
- HIST 3282 - History of Africa since 1500
- HIST 3670 - Civil War/Reconstruction
- HIST 3840 - U S Constitutional History
- HIST 3881 - African American History
- HIST 4022 - Oral History
- HIST 4050 - Special Topics in History
- HIST 4051 - Special Topics in History
- HIST 4052 - Special Topics in History
- HIST 4053 - Special Topics in History
- HIST 4054 - Special Topics in History

- HIST 4055 - Special Topics in History
- HIST 4056 - Special Topics in History
- HIST 4057 - Special Topics in History
- HIST 4058 - Special Topics in History
- HIST 4059 - Special Topics in History
- HIST 4060 - Special Topics in History
- HIST 4061 - Special Topics in History
- HIST 4062 - Special Topics in History
- HIST 4063 - Special Topics in History
- HIST 4064 - Special Topics in History
- HIST 4065 - Special Topics in History
- HIST 4066 - Special Topics in History
- HIST 4067 - Special Topics in History
- HIST 4068 - Special Topics in History
- HIST 4069 - Special Topics in History (Special Topics related to African American experience)
- HIST 4222 - Race/Class in Latin America
- HIST 4283 - History/South Africa
- HIST 4288 - West Africa/Diaspora
- HIST 4289 - African Women's History
- HIST 4853 - African American Women
- HIST 4871 - U S Urban History
- HIST 4879 - Africa to the Americas
- HIST 4880 - Slavery/Freedom/Segregation
- HIST 4882 - Civil Rights Movement
- PHIL 3452 - Feminist Theory
- PHIL 3741 - African American Philosophy

## Social and Behavioral Sciences:

- AAAS 4251 - African Religions/Diaspora
- ANTH 3242 - Peoples of Africa
- ANTH 3282 - American Communities
- ANTH 3511 - Culture/Kin/Family
  - ANTH 4051
- ANTH 4120 - Africa's New World Comm
- ANTH 4220 - Cultural Perspec/Environment
- ANTH 4352 - Old World Archaeology
- ANTH 4411 - Urban Anthropology
- ANTH 4412 - Neighborhood Development
- ANTH 4571 - Race and Health Disparities
- ANTH 4660 - Museum Collections
- ANTH 4661 - Collections Research
- ANTH 4662 - Museum Exhibitions
- CJUS 3510 - Law and Society
- CJUS 4460 - Race/Ethnicity/Gender/America
- ESCI 4431 - Urban Geography
- ECON 4740 - Health Care Economics
- POLS 3306 - Latin American Govt/Politics
- POLS 3320 - Human Rights/World Politics
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3415 - Feminist Political Theory
- POLS 3420 - Race and Politics in U.S.
- POLS 4101 - Political Statistics
- POLS 4222 - Urban Politics
- POLS 4317 - Democratic Transitions
- POLS 4415 - African-Am Pol Thght to 1900
- POLS 4416 - African-Am Pol Tht from 1900
- POLS 4511 - International Security
- SOCI 3112 - Contemporary Social Problems
- SOCI 3311 - Social Statistics

- SOCI 3401 - Social Inequality
- SOCI 3420 - Sociology of the South
- SOCI 3422 - Racial/Ethnic Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 4420 - Racial Inequality
- SOCI 4442 - Sociology of Poverty
- SOCI 4460 - Black/White Women in South
- SOCI 4631 - Cities in Change

## The Arts:

- AAAS 4451 - Rhetoric of Hip Hop
- ARTH 4112 - Egypt Art-Old Kingdom
- ARTH 4113 - Egypt Art-New Kingdom
- ARTH 4181 - Arts Africa/Oceania/N America
- ARTH 4183 - Visual Arts of Africa
- ARTH 4185 - African American Art
- ARTH 4660 - Museum Collections
- ARTH 4662 - Museum Exhibitions
- COMM 3360 - Rhetoric/Pop Culture
- COMM 3361 - African-American Rhetoric
- COMM 4341 - Interpersonal Communication
- COMM 4364 - Voices/American Women
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4804 - Blues
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music
- THEA 4544 - Thea/African Diaspora

## Electives (40-43 hours)

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year African and African American Studies Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3-4) \*
  - Elective (3)
  - Foreign Language/B.A. (3)
- AAAS 2100 - Intro Afr/Afr American Study
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Elective (3)

- Foreign Language/B.A. (3)
- Humanities (3) \*

## Semester Totals 30-31 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - Social/Behavioral Sci. (3) \*
- AAAS 3100 - Research Method/Afr American
  - Natural Science (4) \*
  - Elective (3)
  - History (3) \*
  - Elective (3)
  - Fine Arts (3) \*
  - Natural Science (4) \*
  - AAAS Arts Core (3)

## Semester Totals 32 hrs

## Junior Year

- AAAS Humanities Core Elective (3)
- Social/Behavioral Sciences (3) \*
- History (3) \*
- COMM 2381 - Oral Communication
  - AAAS conc. elective (3)
  - AAAS Soc/Behav core elective (3)
  - AAAS conc. elective (3)
  - UD elective (3)
  - UD elective (3)
  - Elective (3)

## Semester Totals 30 hrs

## Senior Year

- UD elective (3)
- AAAS conc. elective (3)
- UD elective (3)
- Elective (3)
- Elective (3)



- AAAS 4100 - Seminar Afr/Afr Amer Studies
  - UD elective (3)
  - AAAS conc. elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120-121

\*Must satisfy University General Education Program Requirement

## **Alcohol and Drug Abuse Services, (B.P.S.)**

Students in Alcohol and Drug Abuse Services concentration will select courses in alcohol & drug abuse and social & public services. Prior Work experience is welcomed and evaluated through portfolio assessment. Internships are also included in this concentration. Persons pursuing this degree typically provide services to those disabled by alcohol and drug abuse, including abusers, families, friends, colleagues, and associates. Wishing to build upon knowledge of and experience in alcohol and drug abuse treatment, persons served by these guidelines will seek careers in Alcohol & Drug Abuse (A&D) Services as providers of social and public services in hospitals, social service agencies, employee assistance programs, churches, etc. Some may wish to continue their education in graduate-level programs.

### **General Education (35-41 hours)**

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

### **Coordinated Study (30 hours)**

### **Professional Core (6 hours)**

Choose two courses:

- SWRK 2911 - Soc Response to Human Need
- COUN 4611 - Intro to Counseling
- COUN 4621 - Human Interactions

## Alcohol and Drug Core (6 hours)

Choose two courses:

- ANTH 4531 - Alcohol/Drugs/Culture
- CJUS 4152 - Drug Misuse and Abuse
- COUN 4783 - Alcohol/Drug Abuse Services
- PSYC 3507 - Alcohol/Drugs/Behavior Prerequisites: PSYC 1030, PSYC 3010, PSYC 3020.

## Professional Writing (3 hours)

Choose one course:

- ENGL 3601 - Technical and Profess Writing
- ENGL 3604 - Persuasive Writing
- MGMT 3510 - Business Communications (Prerequisite - MIS 2749)

## Social and Public Services (15 hours)

- CJUS 4533 - Juvenile Delinq Theory/Process
- COUN 4781 - Strategy/Crisis Intervention
- POLS 3213 - Intro to Public Policy
- PSYC 3102 - Abnormal Psychology
- PSYC 3103 - Child Psychology
- PSYC 3106 - Social Psychology
- SOCI 3501 - Sociology of Deviant Behavior
- SOCI 4851 - Medical Sociology
- SOCI 4852 - Sociology of Mental Illness
- SWRK 3902 - Human Behavior/Soc Envrnmnt Prerequisites: SWRK 2911, 2010; BIOL 1010/1011

## Guided Electives

Choose any 12 hours from courses in the Coordinated Study that have not already been taken.

## Internship (3 hours)

Students completing courses in Social and Public Services will complete 150 hours of supervised therapeutic experience.

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (Completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Anthropology, (B.A.)

Program objectives for a B.A. in Anthropology are that students will: (a) demonstrate knowledge of the holistic foundations of anthropology, and core subfields of cultural anthropology, biological anthropology, archaeology, and linguistics; (b) demonstrate critical analysis and independent thought in relation to core constructs, theories, and methods in anthropological works; (c) demonstrate effective written communication skills; and (d) experience and appreciate anthropology's real world applications through enriched learning opportunities such as community-based research, service learning, internships, and study-abroad programs.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## The Major (30 hours)

Completion of 30 semester hours in anthropology courses including

- ANTH 1100 - Biol Anth & Prehistory
- ANTH 1200 - Cultural Anthropology
- ANTH 3200 - Peoples/Cultures World
- ANTH 4065 - Anthropological Theory
  - and 18 additional semester hours with at least 15 hours at the upper division level.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Department of Anthropology offers an honors program in anthropology to the superior anthropology student who desires a more intensive approach to and knowledge of the discipline, a deeper understanding of research skills, and an opportunity for original criticism and analysis. To be eligible a student must (a) have the approval of the Department Chair, (b) be an anthropology major, (c) have attained at least junior standing, (d) have completed successfully ANTH 1100, ANTH 1200, and one upper-division anthropology course, (e) have maintained a minimum cumulative grade point average of 3.00 in overall studies, (f) have maintained a cumulative grade point average of at least 3.25 in anthropology, (g) have completed four honors courses in anthropology (at least one of which must be an independent study culminating in a research paper/thesis or research report) and a minimum of six hours in honors courses outside anthropology. Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred, "With Honors in Anthropology." Moreover the student's diploma and the record at the University of Memphis will reflect this accomplishment. Details of the program are available at the Department of Anthropology office.

## Typical 4-Year Anthropology Sequence

### Freshman Year

#### First Semester

- ANTH 1100 - Biol Anth & Prehistory
- ENGL 1010 - English Composition
  - MATH\*
  - Foreign Language/BA
  - Elective

#### Second Semester

- ANTH 1200 - Cultural Anthropology
- ENGL 1020 - English Comp/Analysis
  - Elective
  - Foreign Language/BA
  - Humanities/Fine Arts\*

## Semester Totals 30-31 hrs

### Sophomore Year

#### First Semester

- ANTH 3200 - Peoples/Cultures World
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
  - Natural Science\*
  - History\*
  - Elective (3)

#### Second Semester

- History\*
- Elective
- Fine Arts\*
- Natural Science\*
- UD Elective

## Semester Totals 32 hrs

### Junior Year

#### First Semester

- UD ANTH
- COMM 2381 - Oral Communication
  - Elective
  - UD Elective
  - UD ANTH

#### Second Semester

- ANTH 4065 - Anthropological Theory
  - UD ANTH
  - UD Elective
  - Elective
  - Elective

Semester Totals 30 hrs

## Senior Year

### First Semester

- UD ANTH (3)
- UD Elective (3)
- Elective (3)
- Elective (3)
- UD Elective

### Second Semester

- UD ANTH (3)
- ANTH Elective (3)
- UD elective (3)
- Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Architecture, (B.F.A.)

The Bachelor of Fine Arts with a major in Architecture is a pre-professional degree. At the University of Memphis, the professional degree in Architecture is the Master of Architecture degree. See the Graduate Catalog for details.

**NOTE:** Before enrolling in any Architecture course, all applicants seeking admission to the B.F.A. with a major in Architecture must complete and submit to the Department of Architecture an application form, a writing assignment, and a portfolio of five representative works. These three components comprise the Incoming Evaluation for Architecture and will be reviewed by a faculty committee. Applicants are accepted on the basis of potential in the field of architecture. After review, the department notifies the student of one of the following: (1) acceptance, (2) one semester acceptance on a probationary basis, (3) recommendation to correct the deficiencies and reapply, or (4) denial of admission. Permission to enroll in any Architecture courses for which a permit is required beyond first semester, first year is based upon this review. Contact the Department of Architecture for details and deadline.

Students transferring from another major or another institution who intend to pursue a B.F.A. degree with a major in Architecture must complete the Department of Architecture Incoming Evaluation prior to enrolling in Architecture courses. Transfer students seeking advanced standing in the Architecture major should submit a portfolio of work representing previously completed Architecture studio

work. The review committee will determine if the portfolio work is equivalent to comparable courses at the University of Memphis. Placement in the major is dependent upon the review. Even if admitted to advanced standing, the student may be required to remedy previous course deficiencies.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following are specified by the department for this program:

### Mathematics:

- MATH 1730 - Pre-Calculus
- or
- MATH 1830 - Elementary Calculus

### Social/Behavioral Sciences:

- ANTH 1200 - Cultural Anthropology
- and
- SOCI 1010 - Introduction to Sociology

### Natural Science:

- PHYS 2010 - General Physics I/Trig
- and
- PHYS 2011 - General Physics Lab I
- and
- ESCI 1010 - Weather and Climate
  - ESCI 1020 - Landforms
- or
- ESCI 1040 - Physical Geology plus labs

### Humanities:

- ARTH 2010 - World Art I

and

- ARTH 2020 - World Art II

## History:

- HIST 1110 - World Civilization I

and

- HIST 1120 - World Civilization II

## The Major (87 hours)

### Major Foundation Core (32 hours)

- ARCH 1111 - Fundamentals of Design Studio
- ARCH 1112 - Architecture Graphics Studio
- ARCH 1113 - Design Visualization
- ARCH 1120 - Intro to Architecture + Design
- ARCH 1211 - History of Architecture 1
- ARCH 2212 - History of Architecture 2
- ARCH 2411 - Building Technology 1
- ARCH 2412 - Building Technology 2
- ARCH 2611 - Computer Apps in Design 1
- ARCH 2711 - Design Studio 1

## The Major

### Entrance - Completion of Major Core (32 hours)

Candidacy Review and Portfolio Requirements - A Candidacy Review is required of all students intending to major in Architecture. Admission to the University of Memphis and completion of the major core do not guarantee placement in the program. Admission is selective and is based on a portfolio evaluation reflecting professional standards and expectations of the major. A portfolio that includes but is not limited to works from the major core courses is required as part of the application. Guidelines and application forms for admission to the Architecture major are available in the department office and from faculty advisors. Consultation with a faculty advisor is recommended before or during portfolio preparation. Students may submit portfolios for review no earlier than the semester that Candidacy requirements are being completed.

Transfer students must meet entrance requirements of the major. After review, the department notifies the student of one of the following: (1) acceptance, (2) one semester acceptance on a probationary basis, (3) recommendation to correct the deficiencies and reapply, or (4) denial of admission. Permission to enroll in any 3000-4000 level Architecture course is based upon this review.



## Completion of Major (52 hours)

- ARCH 2612 - Computer Apps in Design 2
- ARCH 2712 - Design Studio 2
- ARCH 3221 - Determinants of Modern Design
- ARCH 3222 - Contemporary Architecture 1
- ARCH 3321 - Structural Design 1
- ARCH 3322 - Structural Design 2
- ARCH 3421 - Environmental Systems
- ARCH 3613 - Computer Apps in Design 3
- ARCH 3713 - Design Studio 3
- ARCH 3714 - Design Studio 4
- ARCH 4231 - Issues in City Building
- ARCH 4441 - Construction Documents
- ARCH 4715 - Design Studio 5
- ARCH 4716 - Design Studio 6

## Electives (3 hours)

Architecture, Interior Design, or open electives complete the 87 semester hours of course work. See advisor for details.

## Typical 4-Year Architecture Sequence

### Freshman Year

- ARCH 1112 - Architecture Graphics Studio
- ARCH 1120 - Intro to Architecture + Design
- ANTH 1200 - Cultural Anthropology
- ENGL 1010 - English Composition
- HIST 1110 - World Civilization I
- SOCI 1010 - Introduction to Sociology
- ARCH 1111 - Fundamentals of Design Studio
- ARCH 1113 - Design Visualization
- ARCH 1211 - History of Architecture 1
- ENGL 1020 - English Comp/Analysis
- HIST 1120 - World Civilization II
- MATH 1710 - College Algebra

Semester Totals 36 hrs

### Sophomore Year

- ARCH 2212 - History of Architecture 2
- ARCH 2411 - Building Technology 1

- ARCH 2611 - Computer Apps in Design 1
- ARCH 2711 - Design Studio 1
- COMM 2381 - Oral Communication
- ARCH 2412 - Building Technology 2
- ARCH 2612 - Computer Apps in Design 2
- ARCH 2712 - Design Studio 2

- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American

## Semester Totals 31 hrs

## Junior Year

- ARCH 3421 - Environmental Systems
- ARCH 3613 - Computer Apps in Design 3
- ARCH 3713 - Design Studio 3
- ARTH 2010 - World Art I

ARCH 3213

- ARCH 3431 - Professional Practice
- ARCH 3714 - Design Studio 4
- ARTH 2020 - World Art II

## Semester Totals 28 hrs

## Senior Year

- ARCH 4441 - Construction Documents
- ARCH 4715 - Design Studio 5
  - ARCH elective (1-3)

Natural Science (4)\*\*

- ARCH 4421 - Sustainable Design
- ARCH 4716 - Design Studio 6
  - Natural Science (4)\*\*

## Semester Totals 26 hrs

## Total Hours: 128

## Total Hours Required for Graduation: 128

\*Must satisfy University General Education Program Requirement

**NOTES:** Students may take MATH 1730 or MATH 1830. See Architecture Academic Advisor.

\*\*In addition to PHYS 2010/PHYS 2011, students may take ESCI 1010, ESCI 1020, ESCI 1040 with appropriate lab to satisfy Natural Science requirement.

## Art - Art Education Concentration, (B.F.A.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that the Humanities category is satisfied for art students who meet all B.F.A. in Art requirements by taking two of the following three courses:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts
  - And an approved literature course

### The Major (79 hours)

#### Major Core (Foundation in Art) (12 hours)

- ART 1210 - Foundations Studio I
- ART 1215 - Foundations Studio II
- ART 1311 - Drawing I
- ART 1314 - Drawing II

### Concentrations

[Art majors must be formally accepted into a concentration. Admission to the University and completion of foundation art courses do not guarantee placement in a concentration. Admission is selective and is based on a portfolio evaluation that reflects professional standards and meets concentration expectations. Space availability may also affect admission decisions. A concentration entrance application and a portfolio should be submitted upon completion of foundation courses (ART 1210, ART 1215, ART 1311, ART 1314) plus additional concentration-specific courses (see concentration areas for these courses). The portfolio includes, but is not

limited to, artwork from these courses. Guidelines and application forms for concentration admission are available in the department office and from faculty advisors. Consultation with a faculty adviser is recommended before or during portfolio preparation. Transfer students must meet concentration entrance requirements. After review, the department notifies the student of one of the following: (1) acceptance, (2) recommendation to correct deficiencies and reapply, or (3) denial of admission.]

## Art Education (67 hours):

### Entrance (15 hours)

Students may submit portfolios for review no earlier than the semester that the entrance requirements are being completed.

- ART 3313 - Drawing And Composition
- ART 3411 - Art for Children
- ART 2351 - Intro to Printmaking
- ART 2511 - Sculpture I
- ART 2523 - Ceramics I

### Art History (3 hours)

2 upper division art history courses. Undergraduates in art education will need to take the following art history classes:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II (counted for General Education Program)
  - and ARTH elective (3)

### Completion of Concentration (43 hours)

- ART 3423 - Art Secondary Schools
- ART 4321 - Drawing and Painting I
- ART 4427 - Method/Materials Art Instruc
- ART 4441 - Art Ed Prof Seminar
- EDPR 2111 - Development Across Lifespan
- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- SPED 2000 - Foundation/Exceptional Learn
- ART 4912 - Art Education Residency II
- ART 4430 - Community Art Project
- ART 4440 - Analysis of Teaching
- ART 4914 - Art Education Residency I

## Art Electives (6 hours)

A studio specialty of three or four courses in the same field is also required; see adviser for details. All required 2000 level art courses must be completed before enrollment in 4000 level studio classes. Art electives complete the 79 semester hours of professional course work.

### Note:

See the introduction to the College of Communication and Fine Arts requirements at the Teacher Preparation section.

## Graduation

For the B.F.A. in Art, a total of 120 semester hours is required, 85 of which must be in professional course work that includes ARTH 2101 and 2102. A minimum of 42 upper division semester hours is required for the degree and a minimum grade of "C" is required for all courses in the Art major.

## Typical 4-Year Art Education Concentration Sequence

### Freshman Year

- ART 1210 - Foundations Studio I
- ART 1311 - Drawing I
- ENGL 1010 - English Composition
  - Math\* (3)
  - Natural Science\* (4)
- ART 1215 - Foundations Studio II
- ART 1314 - Drawing II
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences\* (3)
  - Natural Science\* (4)

Semester Totals 32 hrs

### Sophomore Year

- ART 2511 - Sculpture I
- COMM 2381 - Oral Communication
- ARTH 2010 - World Art I
- SPED 2000 - Foundation/Exceptional Learn
- EDPR 2111 - Development Across Lifespan

- ART 2523 - Ceramics I
- ART 2351 - Intro to Printmaking
- ARTH 2020 - World Art II
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American
  
- ART 2331 - Painting I

Semester Totals 30 hrs

## Junior Year

- UD ARTH elective (3)
- History\* (3)
- ART 3423 - Art Secondary Schools
  - Social/Behavioral Science\* (3)
- ICL 3333 - Stdnt Assess/Inst Dec Mkng
- ART 3411 - Art for Children
  - UD ARTH elective (3)
  - ART elective (3)
- ART 4321 - Drawing and Painting I
- ART 4430 - Community Art Project
  - History\* (3)

Semester Totals 31 hrs

## Senior Year

- ART elective (3)
- ART 4914 - Art Education Residency I
- ART 4427 - Method/Materials Art Instruc
- ART 4440 - Analysis of Teaching
- ART 4441 - Art Ed Prof Seminar
  - ICL 4912 (9)

Semester Totals 27 hrs

Total Hours: 120

Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Art - Graphic Design Concentration, (B.F.A.)**

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that the Humanities category is satisfied for art students who meet all B.F.A. in Art requirements by taking two of the following three courses:

- ARTH 2010 - World Art I
  - ARTH 2020 - World Art II
  - ARTH 2030 - Visual Studies/Indigenous Arts
- And an approved literature course

### The Major (79 hours)

#### Major Core (Foundation in Art) (12 hours)

- ART 1210 - Foundations Studio I
- ART 1215 - Foundations Studio II
- ART 1311 - Drawing I
- ART 1314 - Drawing II

### Concentrations

[Art majors must be formally accepted into a concentration. Admission to the University and completion of foundation art courses do not guarantee placement in a concentration. Admission is selective and is based on a portfolio evaluation that reflects professional standards and meets concentration expectations. Space availability may also affect admission decisions. A concentration entrance

application and a portfolio should be submitted upon completion of foundation courses (ART 1210, ART 1215, ART 1311, ART 1314) plus additional concentration-specific courses (see concentration areas for these courses). The portfolio includes, but is not limited to, artwork from these courses. Guidelines and application forms for concentration admission are available in the department office and from faculty advisors. Consultation with a faculty adviser is recommended before or during portfolio preparation. Transfer students must meet concentration entrance requirements. After review, the department notifies the student of one of the following: (1) acceptance, (2) recommendation to correct deficiencies and reapply, or (3) denial of admission.]

## Graphic Design (67 hours):

### Entrance (9 hours)

Students may submit portfolios for review no earlier than the semester that the entrance requirements are being completed. Enrollment in 3000 or 4000 level graphic design courses is based upon this review.

- ART 2213 - Typographic Design I
- ART 2219 - Visual Thinking
- ART 2223 - Computer Assisted Graphc Des

### Art History (9 hours)

- ART 4224 - History Graphic Design
  - 2 upper division art history courses

### Note:

COMM 4850 may be substituted for one art history course.

### Completion of Concentration (40 hours)

- ART 2701 - Photography I
- ART 3213 - Typographic Design II
- ART 3219 - Image Design
- ART 3222 - Graphic Design Method
- ART 3227 - Electronic Pre-Press Prod
  
- ART 3313 - Drawing And Composition

or



- ART 3314 - Drawing And Concepts
- ART 4211 - Writing/Design Process
- ART 4221 - Graphic Design/Print Comm
- ART 4222 - Interactive Mltimd/Graphic Des
- ART 4223 - Special Studies/Graphic Des (may be taken more than once)
- ART 4233 - Design Practice Studio (may be taken more than once)
- ART 4235 - Graphic Design Portfolio
- ART 4621 - Workshop in Art I
- ART 4230 - Graphic Design Internship

## Art Electives (9 hours)

Art electives complete the 79 hours of professional course work.

## Graduation

For the B.F.A. in Art, a total of 120 semester hours is required, 85 of which must be in professional course work that includes ARTH 2101 and 2102. A minimum of 42 upper division semester hours is required for the degree and a minimum grade of "C" is required for all courses in the Art major.

## Typical 4-Year Graphic Design Concentration Sequence

### Freshman Year

- ART 1210 - Foundations Studio I
- ART 1311 - Drawing I
- ARTH 2010 - World Art I
- ENGL 1010 - English Composition
  - MATH\* (3)
- ART 1215 - Foundations Studio II
- ART 1314 - Drawing II
- ENGL 1020 - English Comp/Analysis
- ART 2223 - Computer Assisted Graphc Des
- ARTH 2020 - World Art II

Semester Totals 30 hrs

### Sophomore Year

- ART 2213 - Typographic Design I
- ART 2701 - Photography I
- ART 2219 - Visual Thinking

- ARTH elective (3)
- Natural Sciences\* (4)
- ART 3213 - Typographic Design II
- ART 3219 - Image Design
  - ART elective (3)
- COMM 2381 - Oral Communication
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American

## Semester Totals 31 hrs

## Junior Year

- ART elective (3)
- ART 3313 - Drawing And Composition
  
- or
  
- ART 3314 - Drawing And Concepts
- ART 3227 - Electronic Pre-Press Prod
  - ARTH elective (3)
  - Natural Science\* (4)
- ART 3222 - Graphic Design Method
- ART 4221 - Graphic Design/Print Comm
- ART 4224 - History Graphic Design
  - Social/Behavioral Sciences\* (3)
  - History (3)

## Semester Totals 31 hrs

## Senior Year

- ART 4233 - Design Practice Studio
- ART 4222 - Interactive Mltimd/Graphic Des
- ART 4211 - Writing/Design Process
- ART 4223 - Special Studies/Graphic Des
  - History\* (3)

### Graphic Design Elective

- ART 4235 - Graphic Design Portfolio
- ART 4621 - Workshop in Art I
  - Social/Behavioral Sciences\* (3)
  - ART elective (3)

Semester Totals 28 hrs

Total Hours: 120

Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Art - Photography Concentration, (B.F.A.)**

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that the Humanities category is satisfied for art students who meet all B.F.A. in Art requirements by taking two of the following three courses:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts
- And an approved literature course

### The Major (79 hours)

#### Major Core (Foundation in Art) (12 hours)

- ART 1210 - Foundations Studio I
- ART 1215 - Foundations Studio II
- ART 1311 - Drawing I
- ART 1314 - Drawing II

### Concentrations

[Art majors must be formally accepted into a concentration. Admission to the University and completion of foundation art courses do not guarantee placement in a concentration. Admission is selective and is based on a portfolio evaluation that reflects professional standards and meets concentration expectations. Space availability may also affect admission decisions. A concentration entrance

application and a portfolio should be submitted upon completion of foundation courses (ART 1210, ART 1215, ART 1311, ART 1314) plus additional concentration-specific courses (see concentration areas for these courses). The portfolio includes, but is not limited to, artwork from these courses. Guidelines and application forms for concentration admission are available in the department office and from faculty advisors. Consultation with a faculty adviser is recommended before or during portfolio preparation. Transfer students must meet concentration entrance requirements. After review, the department notifies the student of one of the following: (1) acceptance, (2) recommendation to correct deficiencies and reapply, or (3) denial of admission.]

## Photography (67 hours):

### Entrance (18 hours)

Students may submit portfolios for review no earlier than the semester that the entrance requirements are being completed. Enrollment in 3000 or 4000 level studio courses is based upon this review.

- ART 2301 - Digital Art I
- ART 2331 - Painting I
- or
- ART 2351 - Intro to Printmaking
- ART 2511 - Sculpture I
- or
- ART 2523 - Ceramics I
  - ART 2700
- or
- ART 2701 - Photography I
- ART 2702 - Photography II
- ART 3701 - Photography III

### Art History (9 hours)

- ARTH 4155 - High Modern Art
- ARTH 4157 - Contemp Art/Theory/Criticism
- ARTH 4721 - History Photography I
- ARTH 4722 - History Photography II

## Completion of Concentration (31 hours)

Five 4000-level photography courses, plus

- ART 4650 - Profess Art Practices
- ART 4711 - Adv Photography Seminar
- ART 4712 - Photography Portfolio Seminar
- ART 4990 - Senior Thesis Preparation
- ART 4995 - Senior Thesis Exhibition
  - Photo Lab Management

## Art Electives (9 hours)

Art electives complete the 79 semester hours of course work.

## Graduation

For the B.F.A. in Art, a total of 120 semester hours is required, 85 of which must be in professional course work that includes ARTH 2101 and 2102. A minimum of 42 upper division semester hours is required for the degree and a minimum grade of "C" is required for all courses in the Art major.

## Art - Studio Arts Concentration, (B.F.A.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that the Humanities category is satisfied for art students who meet all B.F.A. in Art requirements by taking two of the following three courses:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts
  - And an approved literature course

### The Major (79 hours)

#### Major Core (Foundation in Art) (12 hours)

- ART 1210 - Foundations Studio I
- ART 1215 - Foundations Studio II

- ART 1311 - Drawing I
- ART 1314 - Drawing II

## Concentrations

[Art majors must be formally accepted into a concentration. Admission to the University and completion of foundation art courses do not guarantee placement in a concentration. Admission is selective and is based on a portfolio evaluation that reflects professional standards and meets concentration expectations. Space availability may also affect admission decisions. A concentration entrance application and a portfolio should be submitted upon completion of foundation courses (ART 1210, ART 1215, ART 1311, ART 1314) plus additional concentration-specific courses (see concentration areas for these courses). The portfolio includes, but is not limited to, artwork from these courses. Guidelines and application forms for concentration admission are available in the department office and from faculty advisors. Consultation with a faculty adviser is recommended before or during portfolio preparation. Transfer students must meet concentration entrance requirements. After review, the department notifies the student of one of the following: (1) acceptance, (2) recommendation to correct deficiencies and reapply, or (3) denial of admission.]

## Studio Arts (72 hours):

The four fields are interdependent and share the following requirements:

### Entrance (9 hours)

Students may submit portfolios for review no earlier than the semester that the entrance requirements are being completed.

Three courses selected from

- ART 2301 - Digital Art I
- ART 2331 - Painting I
- ART 2351 - Intro to Printmaking
- ART 2511 - Sculpture I
- ART 2523 - Ceramics I
- ART 2701 - Photography I

### Art History (6 hours)

- ARTH 4155 - High Modern Art

or

- ARTH 4157 - Contemp Art/Theory/Criticism
  - Plus 3 hours in upper division art history courses

## Completion of Concentration (46 hours)

Remaining lower division courses (see Entrance), plus upper division studio courses:

- ART 3313 - Drawing And Composition
- ART 3314 - Drawing And Concepts
- ART 4650 - Profess Art Practices
- ART 4990 - Senior Thesis Preparation
- ART 4995 - Senior Thesis Exhibition
- ART 4622 - Workshop in Art II

## 8 Other Courses From:

Ceramics:

- ART 3522 - Kilns/Glazes/Tech Skill
- ART 3524 - Ceramics II
- ART 4521 - Ceramics III
- ART 4522 - Ceramics IV

Painting:

- ART 3332 - Painting II
- ART 4321 - Drawing and Painting I
- ART 4322 - Drawing and Painting II
- ART 4331 - Painting III
- ART 4332 - Painting IV

Printmaking:

- ART 2352 - Intro Intaglio/Lithography
- ART 3351 - Intaglio Printmaking
- ART 3352 - Lithography
- ART 4351 - Adv Printmaking I
- ART 4352 - Adv Printmaking II
- ART 4353 - Computer Image Print/Photo I
- ART 4354 - Computer Image Print/Photo II

Sculpture:

- ART 3511 - Sculpture II
- ART 3512 - Sculpture III
- ART 4511 - Sculpture IV
- ART 4512 - Sculpture V

### Independent Studies and Book Arts:

- ART 4621 - Workshop in Art I
- ART 4314 - Art of the Book

### Note

All 2000 level art courses must be completed before enrollment in 4000 level studio courses.

### Art Electives (6 hours)

Art electives complete the 79 semester hours of professional course work.

### Graduation

For the B.F.A. in Art, a total of 120 semester hours is required, 85 of which must be in professional course work that includes ARTH 2101 and 2102. A minimum of 42 upper division semester hours is required for the degree and a minimum grade of "C" is required for all courses in the Art major.

### Typical 4-Year Studio Arts Concentration Sequence

#### Freshman Year

- ART 1210 - Foundations Studio I
- ART 1311 - Drawing I
- ARTH 2010 - World Art I
- ENGL 1010 - English Composition
  - MATH\* (3)
- ART 1215 - Foundations Studio II
- ART 1314 - Drawing II
- ENGL 1020 - English Comp/Analysis
- ART 2701 - Photography I
- ARTH 2020 - World Art II



## Semester Totals 30 hrs

### Sophomore Year

- ART 2331 - Painting I
- ART 2301 - Digital Art I
- ART 2511 - Sculpture I
  
- ARTH 4155 - High Modern Art
  
- or
  
- ARTH 4157 - Contemp Art/Theory/Criticism
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American
  
- COMM 2381 - Oral Communication
- ART 3313 - Drawing And Composition
- ART 2351 - Intro to Printmaking
- ART 2523 - Ceramics I
  - ARTH elective (3)
  - Natural Science\* (4)

## Semester Totals 34 hrs

Submit portfolio for Concentration Entrance

### Junior Year

- ART 3314 - Drawing And Concepts
  - ART (course-1) (3)
  - ART (course-2) (3)
  - ART (course-3) (3)
  - Natural Science\* (4)
  - ART (course-4) (3)
  - ART (course-5) (3)
  - ART (course-6) (3)
  - Social/Behavioral Sciences\* (3)
  - History\* (3)

Semester Totals 31 hrs

Senior Year

- ART (course-7) (3)
- ART 4650 - Profess Art Practices
- ART 4990 - Senior Thesis Preparation
- ART 4622 - Workshop in Art II
  - History\* (3)
- ART 4995 - Senior Thesis Exhibition
  - ART (studio E1) (3)
  - ART (studio E2) (3)
  - Social/Behavioral Sciences\* (3)

Semester Totals 25 hrs

Total Hours: 120

Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Art History - African Diaspora Arts and Visual Culture Concentration, (B.A.)**

### **Art History Major (B.A.)**

Program objectives for a B.A. in Art History are: (a) to understand the scope of art in human culture; (b) to acquire the ability to write about art clearly and meaningfully; (c) to acquire knowledge of diverse visual cultures; (d) to acquire the ability to read, write and understand the major terms and concepts of art history; (e) to conduct original research in the discipline.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

## Bachelor of Arts (B.A.) (6-9 hours)

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

### The Major (42 hours)

Completion of 36 semester hours in art history courses, including two courses selected from

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts (see concentration requirements for specific selection)
  - nine courses selected from the ARTH 4000-level series (see concentration requirements for specific selections)
- ARTH 4195 - Proseminar Art History
  - A minimum of 6 hours of studio art is also required.

### African Diaspora Arts and Visual Culture

African Diaspora Arts and Visual Culture is an interdisciplinary area of concentration within the B.A. in Art History. Its mission is to introduce students to the theoretical frameworks and methodologies for approaching the study of the diverse arts and visual cultures of peoples of African descent. Art and visual culture are examined in relation to the broader African diaspora, whereby students acquire analytical skills that enhance their understanding of historical and contemporary issues from a global perspective. Students supplement the Art History curriculum with courses drawn from a variety of disciplines. The program objectives for the concentration in African Diaspora Arts and Visual Culture emphasize research employing original sources, the ability to think and read critically, the skill of writing meaningfully, and the application of acquired knowledge in the context of cultural institutions such as museums, galleries, and historical sites.

### Within the Requirements for the Major in Art History

Within the requirements for the major in Art History, students in this concentration need to complete:

- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts
- ARTH 4184 - Arts of Colonialism/Empire
- ARTH 4185 - African American Art
- ARTH 4186 - Afr American Diaspora Cinema
- ARTH 4187 - Af Am Diaspora Photo Culture

### Two Courses From

- ARTH 4381 - Art Curatorial Techniques
- ARTH 4386 - Introduction to Museums
- ARTH 4660 - Museum Collections
- ARTH 4662 - Museum Exhibitions

## In Addition to 9 Hours ARTH 4000-level Series

Students need to take two courses outside of the Department of Art selected from the following:

- ANTH 4120 - Africa's New World Comm
- ENGL 3325 - Af/Am Lit thru Harlem Ren
- ENGL 3326 - Af/Am Lit since Harlem Ren
- ENGL 4373 - Af/Am Author since Harlem Ren
- HIST 4051 - Special Topics in History
- HIST 4222 - Race/Class in Latin America
- HIST 4288 - West Africa/Diaspora
- HIST 4879 - Africa to the Americas
- SOCI 4420 - Racial Inequality
  - SOCI 4904
  - SOCI 4905

## Electives (18-19 hours)

Completion of courses to bring the total number of hours to 120 semester hours.

## Typical 4-Year Art History Sequence

### Freshman Year

- ARTH 2010 - World Art I \*\*\*
- or
- ARTH 2030 - Visual Studies/Indigenous Arts \*\*\*
- ENGL 1010 - English Composition
  - Humanities (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Elective (3)
  - ARTH 2010 - World Art I (3)
- or
- ARTH 2020 - World Art II
- ENGL 1020 - English Comp/Analysis
  - Fine Arts (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Studio elective (3)

### Semester Totals 30 hrs

## Sophomore Year

- ARTH elective (3)
- ARTH elective (3)
- Foreign Language/B.A. (3)
- MATH (3) \*
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - ARTH elective (3)
  - ARTH elective (3)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - History (3) \*

Semester Totals 33 hrs

## Junior Year

- ARTH elective (3)
- Elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*
- ARTH elective (3)
- ARTH elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*

Semester Totals 26 hrs

## Senior Year

- ARTH elective (3)
- ARTH elective (3)
- UD Elective (3)
- UD Elective (3)
- Studio elective (3)
- History (3) \*
- ARTH 4195 - Proseminar Art History
  - Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - Elective (1)

Semester Totals 31 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Students presenting a language to meet University admission requirements cannot receive credit for 1010 in that language.

\*\*\*If student chooses ARTH 2030, then must also take an additional General Education Humanities/Fine Arts course instead of an elective.

## **Art History - Ancient Egyptian Art and Culture Concentration, (B.A.)**

### **Art History Major (B.A.)**

Program objectives for a B.A. in Art History are: (a) to understand the scope of art in human culture; (b) to acquire the ability to write about art clearly and meaningfully; (c) to acquire knowledge of diverse visual cultures; (d) to acquire the ability to read, write and understand the major terms and concepts of art history; (e) to conduct original research in the discipline.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

### **Bachelor of Arts (B.A.) (6-9 hours)**

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

### **The Major (42 hours)**

Completion of 36 semester hours in art history courses, including two courses selected from

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts (see concentration requirements for specific selection)
  - nine courses selected from the ARTH 4000-level series (see concentration requirements for specific selections)

- ARTH 4195 - Proseminar Art History
  - A minimum of 6 hours of studio art is also required.

## Ancient Egyptian Art and Culture

The study of Ancient Egyptian art is by its very nature interdisciplinary, combining elements of visual analysis and art historical methods with textual evidence and archaeological and epigraphic fieldwork. This concentration will introduce students, at the undergraduate level, to various aspects of ancient Egyptian culture, focusing primarily on its art and its language and literature. The Egyptian objects currently in the collection of the Institute of Egyptian Art & Archaeology, both on display and in storage, provide an invaluable asset to this program and will greatly enhance the students' learning experience.

## Within the Requirements for the Major in Art History

Within the requirements for the major in Art History, students in this concentration need to complete:

- ARTH 2010 - World Art I
- ARTH 2030 - Visual Studies/Indigenous Arts
- ARTH 4112 - Egypt Art-Old Kingdom
- ARTH 4113 - Egypt Art-New Kingdom

## Two Courses of

Two semesters of hieroglyphs (arranged as ARTH 4197) must be taken during the student's final year of study and do not meet the Foreign Language requirement for the B.A. Students in this concentration are encouraged to take either French or German to meet their Foreign Language requirement.

- ARTH 4197 - Adv Indiv Research/ARTH (two semesters of hieroglyphs)

## Two Courses Selected From

- ARTH 4119 - Late Antique/Islamic Art/Egypt
- ARTH 4121 - Ancient Art Near East
- ARTH 4123 - Greek Art
- ARTH 4124 - Roman Art
- ARTH 4125 - Art/Archaeology Pompeii
- ARTH 4183 - Visual Arts of Africa

## In Addition to 9 Hours ARTH 4000-level Series

Students need to take two courses outside of the Department of Art, including

- HIST 4323 - Egypt of the Pharaohs

## Plus One of the Following:

- ANTH 3300 - Rise To Civilization
- ANTH 4352 - Old World Archaeology (ESCI 4352)
- HIST 3320 - Ancient World
- HIST 4068 - Special Topics in History
- HIST 4320 - Ancient Near East
- HIST 4321 - Greek Experience
- HIST 4322 - The Roman World
- JDST 4841 - Biblical Archaeology (ANTH 4841/ESCI 4841)

## Electives (18-19 hours)

Completion of courses to bring the total number of hours to 120 semester hours.

## Typical 4-Year Art History Sequence

### Freshman Year

- ARTH 2010 - World Art I \*\*\*
- or
- ARTH 2030 - Visual Studies/Indigenous Arts \*\*\*
- ENGL 1010 - English Composition
  - Humanities (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Elective (3)
- ARTH 2010 - World Art I (3)
- or
- ARTH 2020 - World Art II
- ENGL 1020 - English Comp/Analysis
  - Fine Arts (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Studio elective (3)

Semester Totals 30 hrs

### Sophomore Year

- ARTH elective (3)



- ARTH elective (3)
- Foreign Language/B.A. (3)
- MATH (3) \*
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - ARTH elective (3)
  - ARTH elective (3)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - History (3) \*

### Semester Totals 33 hrs

### Junior Year

- ARTH elective (3)
- Elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*
- ARTH elective (3)
- ARTH elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*

### Semester Totals 26 hrs

### Senior Year

- ARTH elective (3)
- ARTH elective (3)
- UD Elective (3)
- UD Elective (3)
- Studio elective (3)
- History (3) \*
- ARTH 4195 - Proseminar Art History
  - Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - Elective (1)

### Semester Totals 31 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Students presenting a language to meet University admission requirements cannot receive credit for 1010 in that language.

\*\*\*If student chooses ARTH 2030, then must also take an additional General Education Humanities/Fine Arts course instead of an elective.

## Art History - European Tradition in Art Concentration, (B.A.)

### Art History Major (B.A.)

Program objectives for a B.A. in Art History are: (a) to understand the scope of art in human culture; (b) to acquire the ability to write about art clearly and meaningfully; (c) to acquire knowledge of diverse visual cultures; (d) to acquire the ability to read, write and understand the major terms and concepts of art history; (e) to conduct original research in the discipline.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### Bachelor of Arts (B.A.) (6-9 hours)

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

### The Major (42 hours)

Completion of 36 semester hours in art history courses, including two courses selected from

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts (see concentration requirements for specific selection)
  - nine courses selected from the ARTH 4000-level series (see concentration requirements for specific selections)
- ARTH 4195 - Proseminar Art History
  - A minimum of 6 hours of studio art is also required.

## European Tradition in Art

The European tradition is an area of concentration within the B.A. in Art History, whose mission is to introduce students to the visual cultures of the Western world, from antiquity to the modern (and postmodern) age. The concentration offers coursework covering the diverse visual traditions and the variety of historical periods associated with Europe and the Americas. The concentration emphasizes that its students acquire the ability to read, write and understand the major concepts of art history and to conduct original research in the discipline.

### Within the Requirements for the Major in Art History,

Within the requirements for the major in Art History, students in this concentration need to complete:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II

### One Course Each from Five of the Following Art Historical Categories

#### Classical:

- ARTH 4123 - Greek Art
- ARTH 4124 - Roman Art
- ARTH 4125 - Art/Archaeology Pompeii

#### Medieval:

- ARTH 4129 - Ancient/Medieval Architecture
- ARTH 4130 - Art/Medieval World
- ARTH 4131 - Art/Early Middle Ages
- ARTH 4134 - Art/High Middle Ages

#### Renaissance-Baroque:

- ARTH 4141 - Early Renaissance Italy
- ARTH 4142 - North Renaissance Art
- ARTH 4143 - High Renaissance Italy
- ARTH 4146 - Baroque Art

#### Modern European:

- ARTH 4148 - Neo-Class/Romanticism
- ARTH 4149 - Realism & Impressionism
- ARTH 4152 - Early Modern Art
- ARTH 4153 - Cubism through Surrealism
- ARTH 4721 - History Photography I

## American:

- ARTH 4158 - Modern Architecture
- ARTH 4166 - History of American Art
- ARTH 4185 - African American Art
- ARTH 4722 - History Photography II

## Contemporary:

- ARTH 4155 - High Modern Art
- ARTH 4157 - Contemp Art/Theory/Criticism

## Additional Courses

An additional 9 hours ARTH 4000-level series is required. A maximum of two courses from the Museum Studies sequence (ARTH 4381, ARTH 4386, ANTH 4660, or ANTH 4662) may be selected when meeting the remaining 9 hours ARTH 4000-level series.

## Electives (18-19 hours)

Completion of courses to bring the total number of hours to 120 semester hours.

## Typical 4-Year Art History Sequence

### Freshman Year

- ARTH 2010 - World Art I \*\*\*
- or
- ARTH 2030 - Visual Studies/Indigenous Arts \*\*\*
- ENGL 1010 - English Composition
  - Humanities (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Elective (3)
  - ARTH 2010 - World Art I (3)
- or
- ARTH 2020 - World Art II
- ENGL 1020 - English Comp/Analysis
  - Fine Arts (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*

- Studio elective (3)

## Semester Totals 30 hrs

## Sophomore Year

- ARTH elective (3)
- ARTH elective (3)
- Foreign Language/B.A. (3)
- MATH (3) \*
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - ARTH elective (3)
  - ARTH elective (3)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - History (3) \*

## Semester Totals 33 hrs

## Junior Year

- ARTH elective (3)
- Elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*
- ARTH elective (3)
- ARTH elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*

## Semester Totals 26 hrs

## Senior Year

- ARTH elective (3)
- ARTH elective (3)
- UD Elective (3)
- UD Elective (3)
- Studio elective (3)
- History (3) \*

- ARTH 4195 - Proseminar Art History
  - Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - Elective (1)

Semester Totals 31 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Students presenting a language to meet University admission requirements cannot receive credit for 1010 in that language.

\*\*\*If student chooses ARTH 2030, then must also take an additional General Education Humanities/Fine Arts course instead of an elective.

## Art History, (B.A.)

Program objectives for a B.A. in Art History are: (a) to understand the scope of art in human culture; (b) to acquire the ability to write about art clearly and meaningfully; (c) to acquire knowledge of diverse visual cultures; (d) to acquire the ability to read, write and understand the major terms and concepts of art history; (e) to conduct original research in the discipline.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## Bachelor of Arts (B.A.) (6-9 hours)

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

## The Major (42 hours)

Completion of 36 semester hours in art history courses, including two courses selected from

- ARTH 2010 - World Art I

- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts (see concentration requirements for specific selection)
  - nine courses selected from the ARTH 4000-level series (see concentration requirements for specific selections)
- ARTH 4195 - Proseminar Art History
  - A minimum of 6 hours of studio art is also required.

## Electives (18-19 hours)

Completion of courses to bring the total number of hours to 120 semester hours.

## Typical 4-Year Art History Sequence

### Freshman Year

- ARTH 2010 - World Art I \*\*\*
- or
- ARTH 2030 - Visual Studies/Indigenous Arts \*\*\*
- ENGL 1010 - English Composition
  - Humanities (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Elective (3)
  - ARTH 2010 - World Art I (3)
- or
- ARTH 2020 - World Art II
- ENGL 1020 - English Comp/Analysis
  - Fine Arts (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Studio elective (3)

Semester Totals 30 hrs

### Sophomore Year

- ARTH elective (3)
- ARTH elective (3)
- Foreign Language/B.A. (3)
- MATH (3) \*
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - ARTH elective (3)
  - ARTH elective (3)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - History (3) \*

Semester Totals 33 hrs

## Junior Year

- ARTH elective (3)
- Elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*
- ARTH elective (3)
- ARTH elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*

Semester Totals 26 hrs

## Senior Year

- ARTH elective (3)
- ARTH elective (3)
- UD Elective (3)
- UD Elective (3)
- Studio elective (3)
- History (3) \*
- ARTH 4195 - Proseminar Art History
  - Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - Elective (1)



Semester Totals 31 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Students presenting a language to meet University admission requirements cannot receive credit for 1010 in that language.

\*\*\*If student chooses ARTH 2030 , then must also take an additional General Education Humanities/Fine Arts course instead of an elective.

## **Art, (B.F.A.)**

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that the Humanities category is satisfied for art students who meet all B.F.A. in Art requirements by taking two of the following three courses:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts
- And an approved literature course

### The Major (79 hours)

#### Major Core (Foundation in Art) (12 hours)

- ART 1210 - Foundations Studio I
- ART 1215 - Foundations Studio II
- ART 1311 - Drawing I
- ART 1314 - Drawing II

### Concentrations

[Art majors must be formally accepted into a concentration. Admission to the University and completion of foundation art courses do not guarantee placement in a concentration. Admission is selective and is based on a portfolio evaluation that reflects professional standards and meets concentration expectations. Space availability may also affect admission decisions. A concentration entrance application and a portfolio should be submitted upon completion of foundation courses (ART 1210, ART 1215, ART 1311, ART 1314) plus additional concentration-specific courses (see concentration areas for these courses). The portfolio includes, but is not limited to, artwork from these courses. Guidelines and application forms for concentration admission are available in the department office and from faculty advisors. Consultation with a faculty adviser is recommended before or during portfolio preparation. Transfer students must meet concentration entrance requirements. After review, the department notifies the student of one of the following: (1) acceptance, (2) recommendation to correct deficiencies and reapply, or (3) denial of admission.]

## Graduation

For the B.F.A. in Art, a total of 120 semester hours is required, 85 of which must be in professional course work that includes ARTH 2101 and 2102. A minimum of 42 upper division semester hours is required for the degree and a minimum grade of "C" is required for all courses in the Art major.

## Asian Studies and International Trade, (B.L.S.)

[See University College website for additional information.](#)

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

For the Social and Behavioral Sciences requirement, ECON 2010 and ECON 2020 fulfill this requirement.

## Asian Studies for International Trade Concentration

Students must complete the requirements in each of the following three groups:

## Group 1: Foreign Language (9-21 hours)

Requirement: 9 hours at the 3000-level or above.

Students with previous background in the chosen language (Chinese or Japanese) must take the placement test to determine in what course they should enroll.

Students with no previous background in the chosen language will enroll in CHIN 1010 or JAPN 1010.

## Group 2: Area Studies (6 hours)

Students must complete 6 hours from the following:

- HIST 3290 - Traditional East Asia
- HIST 3291 - Modern Asia
- HIST 4292 - Modern China 1800-Present
- HIST 4294 - Modern Japan 1800-Present
  - HIST 4295 - Intellectual History of East Asia

## Group 3: International Economics and Business Studies (24 hours)

- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics

## Business Courses (18 hours)

NOTE: Any other non-economics business course can count towards these 18 hours.

- FIR 3410 - Financial Management
- FIR 4550 - International Finance
- MGMT 3110 - Organization and Mgmt
- MGMT 4810 - International Management
- MKTG 3010 - Principles of Marketing
- MKTG 4530 - International Marketing

## College Requirements (9 hours)

### Thematic Studies (6 hours)

- ESCI 4307 - Thematic Studies/China
- UNIV 4506 - The Chinese
- UNIV 3550 - Clash of Cultures

## Senior Project (3 hours)

All sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project

## Recommended Electives (hours vary)

- ANTH 3200 - Peoples/Cultures World
- ESCI 3200 - People/Culture World
- ANTH 3511 - Culture/Kin/Family
- ANTH 4413 - Anth of Tourism/Environment
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- CDFS 2101 - Family/Global Perspective
- ESCI 1301 - Survey of World Regions
- ESCI 1401 - Intro/Cultural Geography
- ESCI 4430 - Economic Geography
- INTL 3700 - Special Topics in International Studies
- INTL 3701 - Special Topics in International Studies
- INTL 3702 - Special Topics in International Studies
- INTL 3703 - Special Topics in International Studies
- INTL 3704 - Special Topics in International Studies
- INTL 3705 - Special Topics in International Studies
- INTL 3706 - Special Topics in International Studies
- INTL 3707 - Special Topics in International Studies
- INTL 3708 - Special Topics in International Studies
- INTL 3709 - Special Topics in International Studies
- INTL 4601 - Seminar International Studies
- JOUR 4712 - Media and Cultures
- PADM 4401 - Comparative Public Adm
- POLS 1301 - Intro to Comparative Politics
- POLS 1501 - International Relations
- POLS 3310 - Politics/Developed World
- POLS 3320 - Human Rights/World Politics
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3505 - International Organizations
- POLS 3506 - American Foreign Policy
- POLS 3509 - Contmp Prblm Intl Relation
- POLS 4307 - Govt and Pol Communist China
- POLS 4504 - International Law
- POLS 4506 - Prob American Foreign Policy
- POLS 4508 - Theories Internatl Relations
- POLS 4510 - Politics of Global Economy
- POLS 4511 - International Security
- SOCI 2100 - Sociology of Globalization
- SOCI 4413 - Global/Culture/Info Technology

## Experiential Learning Credit

Students may be granted credit for college-level knowledge related to their major area of study that they have gained from work experience, life experience, or non-college instruction. Students who would like an assessment of such learning must prepare a portfolio that describes and documents their learning experience. Portfolios are assessed by faculty who teach in the student's field of study.

Assessment by Portfolio is reserved for knowledge and competencies that do not readily fit into the Credit by Examination procedures. For more information please visit the Experiential Learning website at [http://www.memphis.edu/innovation/elc/experiential\\_learning.php](http://www.memphis.edu/innovation/elc/experiential_learning.php)

## Baccalaureate Contract Program (Design Your Own Degree)

Baccalaureate Contract Program (Design Your Own Degree)

Undergraduate students admitted to University College may design either of two degrees through the Baccalaureate Contract Program: the Bachelor of Liberal Studies (B.L.S.) or the Bachelor of Professional Studies (B.P.S.). To be eligible for this program, a student must have a cumulative undergraduate grade point average of 2.50. Upper-division courses within the student's Coordinated Study (i.e., major) must be from two or more departments on campus. In addition, the proposed degree must be unlike any other degree offered by the University of Memphis. All baccalaureate contracts will be reviewed and approved by a baccalaureate contract advisor and by the assistant dean of University College. The baccalaureate contract must include work to be completed in the following areas: (1) General Education, (2) Coordinated Study, (3) Thematic Studies, (4) a Senior Project, and (5) General Electives.

Additional information may be found on the [University College website](#).

## Biology, (B.S.)

Students who earn a B.S. in Biology should attain the following objectives: (a) demonstrate knowledge and comprehension of the principles, concepts, and theories pertinent at each level of biological organization; (b) apply principles of biological classification to the diversity of life and recognize phylogenetic relationships among organisms; (c) demonstrate skills in analytical reasoning and problem solving; (d) function successfully in laboratory and field settings, including the use of basic equipment, techniques, and safety protocols; (e) access, evaluate, and utilize biological information in print and electronic formats; (f) effectively communicate scientific knowledge and experimental results in both oral and written formats; (g) compete successfully for admission to graduate and professional programs and for employment utilizing their academic training.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830 or MATH 1910 is required for the Biology major.

## The Major (64 hours in Addition to University General Education Program Requirements)

Students must earn a grade of at least "C-" in all BIOL courses applied toward the major, the minor, and in all required chemistry, physics, and mathematical courses. BIOL, CHEM, MATH, and PHYS courses applicable toward the major or minor may not be taken more than three times. Students must earn a grade of at least "C-" in BIOL 1110/BIOL 1111 and BIOL 1120/BIOL 1121, before enrolling in any upper division BIOL course.

Any BIOL course applicable toward the major or minor may be repeated once to earn a minimum grade of "C-." To repeat a course a second time, a student must apply for and receive special permission from the department Undergraduate Studies Committee. Application information is available in the Biology Advising and Resource Center. A student may not attempt the same BIOL course more than three times, regardless of where it is taken. Courses cross-listed with BIOL (e.g., CHEM 4511, CHEM 4512, and CHEM 4501) also are subject to this course repetition policy.

Completion of 36 hours in BIOL courses, 16 hours in CHEM courses, 3-4 hours in MATH courses, 8 hours in PHYS courses , and 12 hours in Required Support Courses as specified below:

## Biology Requirements:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab (these courses are included in the University General Education Program)
- BIOL 3072 - Genetics
- BIOL 3073 - Genetics Laboratory
- BIOL 3130 - Cell Biology
- BIOL 4100 - Evolution

## 18 Additional Upper Division Hours in BIOL Courses Approved by the Department

### One Organismal Diversity Course From Among

- BIOL 3200 - General Botany
- BIOL 3620 - Comp Anatomy of Vertebrts
- BIOL 4245 - Plant Systematics/Evolution
- BIOL 4375 - Molec Biol/Parasite
- BIOL 4640 - Ornithology
- BIOL 4644 - Ichthyology
- BIOL 4740 - Mammalogy
- BIOL 4744 - Herpetology
- BIOL 4900 - Entomology

### One Additional Laboratory or Lecture/laboratory Course

#### Note:

No more than five total credit hours of research and practicum (BIOL 4000, BIOL 4001, BIOL 4570) can be applied toward major requirements.

## Additional Science and Math Requirements:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
  
- MATH 1830 - Elementary Calculus

or

- MATH 1910 - Calculus I (these courses are included in the University General Education Program)
- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## Required Support Courses:

Select courses from each of the following three areas for a total of at least 12 hours:

### Science Ethics (one course):

- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics

### Upper Division Social Science (one course):

- ANTH 3111 - Human Paleontology
- ANTH 4111 - Evolution and Human Health
- ANTH 4220 - Cultural Perspec/Environment
- ANTH 4510 - Health/Culture/Environ Justice
- ANTH 4511 - Medical Anthropology
- ANTH 4521 - Culture, Soc & Mental Health
- ANTH 4531 - Alcohol/Drugs/Culture
- ANTH 4541 - Nutritional Anth
- ANTH 4551 - Culture/Sex/Childbirth
- ANTH 4571 - Race and Health Disparities
- ECON 4230 - Ecological Economics
- ECON 4740 - Health Care Economics
- ESCI 4201 - Urbanization/Environment
- ESCI 4251 - Environmental Hazards
- ESCI 4252 - Global Environmental Change
- POLS 4512 - Global Environmental Politics
- PSYC 3306 - Physiological Psyc
- PSYC 3307 - Animal Behavior
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 3512 - Health Psychology
- PSYC 4305 - Mind/Brain/Intelligence
- SOCI 3401 - Social Inequality
- SOCI 3432 - Sociology of Gender
- SOCI 4420 - Racial Inequality

- SOCI 4541 - Sociology of Aging
- SOCI 4851 - Medical Sociology

### Skills Courses (two courses):

- CLAS 3021 - Medical Terminology
  - COMP 1900 - CS1: Intro Comp Science
- or
- COMP 4001 - Computer Programming
  - ENGL 3601 - Technical and Profess Writing
  - ESCI 4511 - Remote Sensing/Environ
  - ESCI 4515 - Geographic Info Science
  - HLSC 4530 - Epidemiology
  - MATH 4611 - Intro Applied Statistics
- or
- PSYC 3010 - Research and Statistics I
  - PSYC 3020 - Research and Statistics II

### Foreign Language:

6 hours in a single foreign language, or equivalent. If the language chosen was used to meet University admissions requirements, students must take the foreign language placement exam and complete two sequential courses beginning with the course into which placed by the exam. If a different language is chosen, any six hours will fulfill the requirement.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year Biology Sequence

### Freshman Year

#### First Semester

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 1010 - English Composition
- MATH 1830 - Elementary Calculus

or



- MATH 1910 - Calculus I
  - Social Sciences (3) \*

#### Second Semester

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ENGL 1020 - English Comp/Analysis
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
  - Humanities (3) \*

### Semester Totals 27-28 hrs

## Sophomore Year

#### First Semester

- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- COMM 2381 - Oral Communication
  - Social Sciences (3) \*
  - History (3) \*

#### Second Semester

- BIOL 3130 - Cell Biology
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
  - Elective (3) \*\*
  - Skills Course (3-4)

### Semester Totals 33-34 hrs

## Junior Year

- BIOL 3072 - Genetics
- BIOL 3073 - Genetics Laboratory
  - PHYS (4) \*\*\*
  - UD BIOL (3)
  - Skills Course (3-4)
- BIOL 4100 - Evolution
  - PHYS (4) \*\*\*
  - UD BIOL (4)
  - Humanities (3) \*

## Semester Totals 28-29 hrs

### Senior Year

#### First Semester

- Science Ethics (3)
- UD BIOL (4)
- UD BIOL (3)
- Elective (3)
- Elective (3)

#### Second Semester

- History (3) \*
- UD BIOL (4)
- UD Social Science (3)
- Elective (3)
- Elective (1-3)

## Semester Totals 32 hrs

## Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement.

\*\*Undergraduate research is strongly encouraged as part of the elective hours.

\*\*\*Choose: PHYS 2010/PHYS 2011 and PHYS 2020/PHYS 2021 or PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.

†Students continuing their high school foreign language, e.g. for a foreign language major/minor and/or to meet the BIOL skills course requirement, are encouraged to take foreign language in the freshman year.

## **Biomedical Engineering, (B.S.B.E.)**

### University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

#### Communication:

- ENGL 3603 - Engineering Communications instead of COMM 2381

### Mathematics:

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

### Social/Behavioral Sciences:

Must be taken in addition to 3 hours from the other specified choices

- ECON 2010 - Intro to Macroeconomics

### Natural Science:

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### History:

American history waived for B.S.B.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (26 hours)

### Mathematics (11 hours):

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Sciences (8 Credits):

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- BIOL 1110 - General Biology I

- BIOL 1111 - General Biology I Lab

### Collateral Courses (7 hours):

- ENGR 1010 - Engineering Problem Solving
- EECE 2201 - Circuit Analysis I
- EECE 2203 - Circuit Analysis Lab

or

- EECE 2283 - Electrical Engr/Instrumentation
- EECE 2281 - Instrumentation Lab

### The Major (64 hours)

#### Completion of 40 hours from

- BIOM 1701 - Introduction to Biomedical Engineering Design
- BIOM 1702 - Biomedication Engineering Visualization
- BIOM 1720 - Intro Biomed Engr Tools
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- BIOL 1120 - General Biology II

- BIOL 2011 - Anat/Physiology I Lab

or

- BIOL 2021 - Anat/Physiology II Lab
- BIOM 2720 - Experimental Design Analysis
- BIOM 2810 - Intro Biomechanics/Mechanics of Materials
- BIOM 3010 - Medical Measurements
- BIOM 3110 - Med Physiology/BIOM

Or

- BIOL 3730 - Vertebrate Physiology
- BIOM 3710 - Physiological System/Modeling
- BIOM 4730 - Biomaterials
- BIOM 4760 - Biomed Engr Design Principles
- BIOM 4780 - Senior Project

#### Completion of 24 hours of

Completion of 24 hours of BIOM, Engineering and Technical electives approved by the advisor. At least 6 hours must be satisfied with BIOM electives. Nine hours of electives must be chosen from upper division engineering courses. Six hours of technical electives may be chosen from upper division courses in BIOL, BIOM, CHEM, EECE, MATH, MECH and PHYS. The remaining 3 hours must be

chosen from engineering or upper-division courses in BIOL. Courses at this level in other departments can be chosen with permission of the chair or the chair's designee. Some courses to meet these requirements are:

- BIOM 4720 - Bioelectricity
- BIOM 4750 - Biomechanics
- BIOM 4702 - Biotechn Tools for BME Res
- BIOM 4205 - Intro Biomed and Chem Sensors
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- EECE 3211 - Electronics I
- EECE 3221 - Matrix Computer Methods
- EECE 3240 - Electromagnetic Field Theory
- MATH 3242 - Intro Linear Algebra
- MATH 4391 - Partial Differential Eqns I
- MATH 4721 - Numerical Analysis
- BIOL 3130 - Cell Biology
- BIOL 4511 - Biochemistry I
- MECH 3311 - Engineering Thermodynamics I
- MECH 3322 - Mechanics of Materials
- MECH 3325 - Materials Laboratory
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 4324 - Computer Methods in Design
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- BIOL 3500 - Micro I/Fundmntl Aspect
- BIOL 4094 - Special Topics in Biology
- BIOL 4380 - Histology/Tissue/Organ
- BIOL 4445 - Immunology

## Policy on repeated courses:

Students must earn a grade of at least "C-" in all BIOM courses applied toward the major, and in all required engineering, chemistry, physics and mathematical courses. BIOM, BIOL, CHEM, MATH and PHYS courses applicable toward the major may not be taken more than three times. Students must earn a grade of at least "C-" in BIOM 2810 before enrolling in any upper division BIOM course.

Any BIOM course applicable toward the major may be repeated once to earn a minimum grade of "C-". To repeat a course a second time, a student must apply for and receive special permission from the department Undergraduate Studies Committee. Application information is available from one of the Academic Coordinators. A student may not attempt the same BIOM course more than three times, regardless of where it was taken. Courses cross-listed with BIOM (e.g. BIOL 4110, MECH 4365) are also subject to this course repetition policy.

## Typical 4-Year Biomedical Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
- BIOM 1701 - Introduction to Biomedical Engineering Design
- BIOM 1702 - Biomedication Engineering Visualization

- ENGR 1010 - Engineering Problem Solving
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- MATH 1920 - Calculus II
- BIOM 1720 - Intro Biomed Engr Tools
- ENGL 1020 - English Comp/Analysis

Academic Year Total 34 hrs

## Sophomore Year

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- BIOM 2720 - Experimental Design Analysis
- BIOL 1120 - General Biology II
- BIOL 2011 - Anat/Physiology I Lab
- BIOM 2810 - Intro Biomechanics/Mechanics of Materials
  
- EECE 2201 - Circuit Analysis I
  
- or
  
- EECE 2283 - Electrical Engr/Instrumentation
- EECE 2281 - Instrumentation Lab
  
- MATH 2120 - Differential Equations

Academic Year Total 30 hrs

## Junior Year

- BIOM 3010 - Medical Measurements
- ECON 2010 - Intro to Macroeconomics
- BIOM 3110 - Med Physiology/BIOM
  - Engineering Elective (3)
- ENGL 2201 - Literary Heritage
  
- Or
  
- ENGL 2202 - Lit Heritage: African-American
  
- BIOM 3710 - Physiological System/Modeling
- BIOM 4730 - Biomaterials
  - Tech elective (3)
  - Engineering elective (3)
- ENGL 3603 - Engineering Communications

Academic Year Total 34 hrs

## Senior Year

- BIOM 4760 - Biomed Engr Design Principles
  - Humanities/Fine Arts (3) \*
  - BIOM Elec (3)
  - Tech elective (3)
  - Engineering elective (3)
- BIOM 4780 - Senior Project
  - BIOM Elec (4)
  - Engr Elec (3)
  - Humanities/Fine Arts (3) \*
  - Social/Behavioral Sciences\* (3)

Academic Year Total 30 hrs

Total Hours: 126

Total Hours Required for Graduation: 126

*\*Must satisfy University General Education Program Requirement*

## Graduation

To qualify for the degree of Bachelor of Science in Biomedical Engineering, the student must satisfy University and College requirements, obtain a minimum 2.0 grade point average on all work completed, and obtain a minimum grade of "C-" in all engineering, mathematics, physics, biology, and chemistry courses used to satisfy degree requirements. Waiver of departmental graduation requirements for exceptional circumstances will be granted only upon approval of both the department chair and the Dean of the College of Engineering (or designee).

## Honors in Biomedical Engineering

The Biomedical Engineering Honors Program is for highly motivated and high-achieving students that provides special opportunities to advance the career and professional development of the student. The program aims to develop student talents, interests, and abilities within a curriculum, as well as encouraging independence and creativity.

Students are eligible for the honors program in biomedical engineering if they have and maintain a cumulative GPA of 3.4 with at least junior standing, and have received approval from the departmental honors committee. The honors program in biomedical engineering requires a minimum of 10 hours of upper-division biomedical engineering honors courses, including both BIOM 4800 BME Honors seminar, and completion of an honors thesis (BIOM 4999). Students who complete the honors program and the requirements for the

B.S. in Biomedical Engineering will be recognized at the commencement ceremony by having their degree conferred "With Honors in Biomedical Engineering." Honors designation will also appear on the student's diploma and academic transcript.

## **Business Economics - Financial Economics Concentration, (B.B.A.)**

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) with a minimum grade of "C", ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) are specified for the B.B.A. degree.

### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

### Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:



- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

A minimum of 24 upper-division semester hours as follows:

### For students choosing the Business Economics major with a concentration in Financial Economics:

- ECON 3310 - Microeconomic Theory
- ECON 3320 - Macroeconomic Theory
  - three upper-division economics courses (9 hours)
  - three upper-division FIR courses (9 hours) selected with the approval of the department advisor.

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Honors Program

To be considered for the Honors Degree Program in Economics, the student must:

Maintain a minimum grade of "B" in honors sections of both ECON 2010 - Intro to Macroeconomics and ECON 2020 - Intro to Microeconomics; and obtain the recommendation of a faculty member in the Department of Economics to the Department Honors Committee.

Once accepted to the Honors Degree Program in Economics, the student must:

Maintain an average GPA of 3.25 in all economics courses to continue in the program; Have a minimum GPA of 3.5 in all economics courses at graduation; Enroll in ECON 3310 - Microeconomic Theory and ECON 3320 - Macroeconomic Theory with an honors contract. Those contracts will be discussed with and approved by the faculty member teaching each course; and write an honors thesis. This begins with finding a faculty advisor for the thesis project, discussing a thesis topic, then writing the thesis. The honors thesis typically takes one semester to complete, although work on it can begin early. When working on the honors thesis, the student will enroll in a section of ECON 4996 - Honors Thesis in Economics for up to one semester. The completed thesis will be graded by the faculty advisor.

Upon successfully completing all these requirements, the student will be recognized at the commencement ceremony by having their degree conferred "With Honors in Economics." Moreover the student's diploma and the record at the University of Memphis will reflect this accomplishment.

## Typical 4 Year Sequence Economics Major: Financial Economics Concentration

### Freshman Year

- ENGL 1010 - English Composition
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems
- MATH 1830 - Elementary Calculus

Semester Totals 28-30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - Natural Science with lab (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science with lab (4) \*
  - History (3) \*
  - Humanities/Fine Arts (3) \*
  - Elective (3)

## Semester Totals 32 hrs

### Junior Year

- ECON 3310 - Microeconomic Theory
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
- MIS 3210 - Critical Thinking Using Analytics
- FIR 3410 - Financial Management
- ECON 3320 - Macroeconomic Theory
  - ECON elective (3)
  - History (3)
- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt

## Semester Totals 30 hrs

### Senior Year

- ECON elective (3)
- Finance elective (3)
- Finance elective (3)
- SCMS 3510 - Operations Management
- MKTG 3010 - Principles of Marketing
  - ECON elective (3)
  - Finance elective (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

## Semester Totals 30 hrs

## **Business Economics, (B.B.A.)**

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) with a minimum grade of "C", ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) are specified for the B.B.A. degree.

## Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

A minimum of 24 upper-division semester hours as follows:

For students choosing the Business Economics major with no concentration:

- ECON 3310 - Microeconomic Theory
- ECON 3320 - Macroeconomic Theory
  - six upper-division economics courses (18 hours) selected with the approval of the department advisor.

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Honors Program

To be considered for the Honors Degree Program in Economics, the student must:

Maintain a minimum grade of "B" in honors sections of both ECON 2010 - Intro to Macroeconomics and ECON 2020 - Intro to Microeconomics; and obtain the recommendation of a faculty member in the Department of Economics to the Department Honors Committee.

Once accepted to the Honors Degree Program in Economics, the student must:

Maintain an average GPA of 3.25 in all economics courses to continue in the program; Have a minimum GPA of 3.5 in all economics courses at graduation; Enroll in ECON 3310 - Microeconomic Theory and ECON 3320 - Macroeconomic Theory with an honors contract. Those contracts will be discussed with and approved by the faculty member teaching each course; and write an honors thesis. This begins with finding a faculty advisor for the thesis project, discussing a thesis topic, then writing the thesis. The honors thesis typically takes one semester to complete, although work on it can begin early. When working on the honors thesis, the student will enroll in a section of ECON 4996 - Honors Thesis in Economics for up to one semester. The completed thesis will be graded by the faculty advisor.

Upon successfully completing all these requirements, the student will be recognized at the commencement ceremony by having their degree conferred "With Honors in Economics." Moreover the student's diploma and the record at the University of Memphis will reflect this accomplishment.

## Typical 4-Year Business Economics Sequence

### Freshman Year

- ENGL 1010 - English Composition
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)

- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems
  
- MATH 1830 - Elementary Calculus
- or
- MATH 1421 - Honors Calculus I
- or
- MATH 1910 - Calculus I

Semester Totals 28-30 hrs

## Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
  
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
  
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
  
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
  - History (3) \*
  - Humanities/Fine Arts (3) \*
  - Elective (3)

Semester Totals 32 hrs

## Junior Year

- ECON 3310 - Microeconomic Theory
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
  - ECON elective (3)
- MIS 3210 - Critical Thinking Using Analytics
- ECON 3320 - Macroeconomic Theory
  - ECON elective (3)
- FIR 3410 - Financial Management
- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt

Semester Totals 30 hrs

## Senior Year

- ECON elective (3)
- ECON elective (3)
- Elective (3)
- SCMS 3510 - Operations Management
- MKTG 3010 - Principles of Marketing
  - ECON elective (3)
  - ECON elective (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - History (3) \*

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Business Information and Technology, (B.B.A.)**

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## C. The Major (27 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

### Completion of a minimum of 27 hours, including

- MIS 2845 - Applied Program Development I
- MIS 3770 - System Analysis Methods
- MIS 3775 - Database/Information Management
- MIS 3790 - Enterprise Architecture
- MIS 3885 - Strategic IT Project Management
- MIS 4800 - Strategy/Mgmt/Acquisition



The additional nine hours will be satisfied by three of the following:

- MIS 4160 - Mobile Application Development
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MIS 4672 - Project Management Tools and Leadership
- MIS 4681 - Fundamental/Software Testing
- MIS 4682 - Advanced Software Testing
- MIS 4760 - Web Site Development
- MIS 4845 - Application Program Development III
- MIS 4911 - Internship in Management Information Systems
  - COMP 4262

## D. Electives (10 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Business Information and Technology

### Freshman Year

- ENGL 1010 - English Composition
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
- MIS 2749 - Foundation/Information Systems
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - History (3) \*
  - Humanities/Fine Arts (3) \*
- ECON 2020 - Intro to Microeconomics
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1421 - Honors Calculus I
  
- or
  
- MATH 1910 - Calculus I

Semester Totals 30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
  - Elective (3)
- ACCT 2020 - Fundamentals of Acct II
- MIS 2845 - Applied Program Development I
  - History (3) \*
  - Natural Science (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus

Semester Totals 32 hrs

## Junior Year

- MIS 3210 - Critical Thinking Using Analytics
- MIS 3790 - Enterprise Architecture
- SCMS 3711 - Business Analytics - Tools
- MKTG 3010 - Principles of Marketing
- MGMT 3110 - Organization and Mgmt
  - Elective (1-3)
- MIS 3770 - System Analysis Methods
- FIR 3410 - Financial Management
- ACCT 3130 - Legal/Social/Political Environ
- MIS 3885 - Strategic IT Project Management

Semester Totals 28-30 hrs

## Senior Year

- MIS major elective (3)
- MIS major elective (3)
- MIS 3775 - Database/Information Management
- MGMT 3510 - Business Communications
  - Elective (3)
  - MIS major elective (3)
- MIS 4800 - Strategy/Mgmt/Acquisition
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
- SCMS 3510 - Operations Management

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Chemistry - Biochemistry Concentration, (B.S.)**

Program objectives for a B.S. in Chemistry and a B.S.Ch. in Chemistry are: (a) to have a satisfactory knowledge and comprehension of core concepts of analytical, organic, physical, inorganic and bioorganic chemistry; (b) to develop the ability to critically assess and solve problems relating to theoretical and practical aspects of chemistry; (c) to have satisfactory laboratory skills; (d) to have satisfactory presentation skills to communicate chemical concepts and the results of investigations into chemical phenomena, through oral and written discourse and by way of mathematical sciences (e) to have satisfactory basic computer and computational skills; (f) will be satisfactorily prepared for entry level positions in the field, or for admission to graduate or professional school; (g) to demonstrate an understanding of professional ethics and the importance of chemistry in its impact on society.

## **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

## **The Major (46-53 hours)**

Students must earn a grade of at least "C-" in all CHEM courses applied toward the major or minor, and in all required BIOL, PHYS, and MATH courses. Students must earn a grade of at least "C-" in CHEM 1110 and CHEM 1120 before enrolling in any upper-division CHEM course, and in CHEM 1111 and CHEM 1121 before enrolling in any upper-division CHEM laboratory course.

Any CHEM (or cross-listed) course may be repeated once at the student's option to earn a minimum grade of "C-." To repeat a CHEM (or cross-listed) course a second time, a student may apply for and receive special permission from the Chemistry Department. Application information is available in the Chemistry Department Office, Room 213, J.M. Smith Chemistry Building. No student may take a CHEM (or cross-listed) course more than three times in order to earn a minimum grade of "C-" without extraordinary departmental permission.

## **Core Requirements (31 hours):**

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (these courses are included in the University General Education Program requirements, credit hours not counted in 46-53 hours for the major)

- CHEM 3111 - Foundations/Inorganic CHEM
- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3411 - Foundations/Physical Chemistry
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- CHEM 4999 - Senior Survey
  
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

or

- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II

### One of the Following Upper Division Ethics Courses:

- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics

### Plus (15-22 hours):

### Biochemistry Concentration:

- MATH 1830 - Elementary Calculus
- or
- MATH 1910 - Calculus I (included in the University General Education Program requirements)
  - MATH 4611 - Intro Applied Statistics
  - CHEM 4511 - Biochemistry I
  - CHEM 4501 - Lab Tech In Biochem
  - BIOL 1110 - General Biology I
  - BIOL 1111 - General Biology I Lab
  - BIOL 1120 - General Biology II
  - BIOL 1121 - General Biol II Lab

### One of the Following:

- CHEM 4512 - Biochemistry II

- BIOL 3500 - Micro I/Fundmntl Aspect
- or
- BIOL 3130 - Cell Biology
  - three additional upper division hours in CHEM.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Graduating with Honors in Chemistry

Applies to both the B.S.Ch. and the B.S. with a major in Chemistry

1. In order to graduate with Honors in Chemistry, the student must have an overall GPA of 3.25 and a GPA of 3.25 in all science and mathematics courses required for the major.
2. The student must earn honors credit in a minimum of three 3-credit hour upper-division chemistry lecture courses if honors have not been previously earned in CHEM 1110/CHEM 1120, or in a minimum of two 3-credit hour upper-division chemistry lecture courses if honors have been previously earned in CHEM 1110/CHEM 1120. Honors may be contracted in courses not offering a formal Honors section. A minimum grade of B is required in order to earn honors credit.
3. The student must successfully complete CHEM 4901/CHEM 4902/CHEM 4903 with a formal paper required in CHEM 4903 serving as the equivalent of an honors thesis.
4. The student must present his/her research to an audience external to the Department of Chemistry.

## Typical 4-Year Chemistry (B.S.) Sequence, Biochemistry Concentration

### Freshman Year

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
  
- MATH 1830 - Elementary Calculus
- or
- MATH 1910 - Calculus I
  
- ACAD 1100 - Academic Strategies
  - Humanities/Fine Arts\* (3)
- ENGL 1020 - English Comp/Analysis
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
  - Social/Behavioral Sci\* (3)

## Semester Totals 30-31 hrs

### Sophomore Year

- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
  - Humanities/Fine Arts\* (3)
- PHYS 2010 - General Physics I/Trig \*\*\*
- PHYS 2011 - General Physics Lab I \*\*\*
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- COMM 2381 - Oral Communication
- PHYS 2020 - General Physics II/Trig \*\*\*
- PHYS 2021 - Gen Physics Lab II \*\*\*
  - Social/Behavioral Sciences\* (3)
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American

## Semester Totals 32 hrs

### Junior Year

- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
  - Elective (3)
- MATH 4611 - Intro Applied Statistics
  - History\* (3)
- CHEM 3411 - Foundations/Physical Chemistry
  - Elective (3)
  - Ethics\*\*\*\* (3)
  - History\* (3)
- CHEM 3111 - Foundations/Inorganic CHEM

## Semester Totals 29 hrs

### Senior Year

- CHEM 4501 - Lab Tech In Biochem
- CHEM 4511 - Biochemistry I
  - Elective (3)
  - Elective (3)
  - Elective (3)

- CHEM 4999 - Senior Survey
  - UD CHEM (3)
  - UD BIOL\*\* (3)
  - UD Elective (3)
  - UD Elective (3)
  - Elective (2)

Semester Totals 29 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Only one of BIOL 3130, BIOL 3500 or CHEM 4512 is required.

\*\*\* PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121 may be substituted for this sequence

\*\*\*\*One of the following may be selected: PHIL 3512, PHIL 3514, PHIL 3515

## **Chemistry - Biochemistry Concentration, (B.S.Ch.)**

The department also offers a program culminating in the professional degree of Bachelor of Science in Chemistry (B.S.Ch.). This program is designed to meet the requirements of the Committee on Professional Training of the American Chemical Society, and is undertaken primarily by students who desire to go directly to positions in the chemical industry, or to enroll for postgraduate study in chemistry.

### **University General Education Program (41 hours)**

See Graduation from the University link for the University General Education Program requirements. Note the following specifications for the B.S.Ch. degree: Natural Science - CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121; Mathematics - MATH 1910.

To qualify for the Bachelor of Science in Chemistry degree, the student must complete a minimum of 120 semester hours with a grade point average of at least 2.0. A minimum of 42 semester hours must be in courses from the upper division.

### **The Major (35 hours)**

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

(the 4 courses above are included in the University General Education Program requirements)

- CHEM 3111 - Foundations/Inorganic CHEM
- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3411 - Foundations/Physical Chemistry
- CHEM 3511 - Foundations/Bioorganic CHEM
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 4999 - Senior Survey
  
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
  
- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II
  
- MATH 1910 - Calculus I (included in the University General Education Requirements)
- MATH 1920 - Calculus II

**One of the Following Upper Division Ethics Courses:**

- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics

**Biochemistry Concentration:**

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab
- CHEM 4511 - Biochemistry I
- CHEM 4501 - Lab Tech In Biochem

**Additional Lectures and Lab**

Six (6) additional upper division hours in chemistry lecture courses and one additional upper division chemistry laboratory course

- CHEM 4901 - Chemical Research I
- CHEM 4902 - Chemical Research II
- CHEM 4903 - Chemical Research III

**One of the Following 2 Courses:**

- MATH 4611 - Intro Applied Statistics
- MATH 4635 - Intro Probability Theory

**One of the Following 3 Courses:**

- BIOL 3130 - Cell Biology
- BIOL 3500 - Micro I/Fundmntl Aspect
- CHEM 4512 - Biochemistry II



## Electives

Electives may be chosen to bring the total number of hours to 120.

## Graduating with Honors in Chemistry

Applies to both the B.S.Ch. and the B.S. with a major in Chemistry

1. In order to graduate with Honors in Chemistry, the student must have an overall GPA of 3.25 and a GPA of 3.25 in all science and mathematics courses required for the major.
2. The student must earn honors credit in a minimum of three 3-credit hour upper-division chemistry lecture courses if honors have not been previously earned in CHEM 1110/CHEM 1120, or in a minimum of two 3-credit hour upper-division chemistry lecture courses if honors have been previously earned in CHEM 1110/CHEM 1120. Honors may be contracted in courses not offering a formal Honors section. A minimum grade of B is required in order to earn honors credit.
3. The student must successfully complete CHEM 4901/CHEM 4902/CHEM 4903 with a formal paper required in CHEM 4903 serving as the equivalent of an honors thesis.
4. The student must present his/her research to an audience external to the Department of Chemistry.

## Typical 4-year Chemistry (B.S.Ch. Biochemistry Concentration)

### Freshman Year

#### First Semester

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
- ACAD 1100 - Academic Strategies

Humanities/Fine Arts

Semester Total: 17 hours

#### Second Semester

- ENGL 1020 - English Comp/Analysis
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- MATH 1920 - Calculus II
- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab

Semester Total: 15 hours

## Freshman Year Totals: 32 hours

### Sophomore Year

#### First Semester

- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- COMM 2381 - Oral Communication

Semester Total: 15 hours

#### Second Semester

- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American

Semester Total: 14 hours

## Sophomore Year Totals: 29 hours

### Junior Year

#### First Semester

- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM

MATH\*\*

Humanities/Fine Arts\*

History\*

Semester Total: 14 hours

## Second Semester

- CHEM 3111 - Foundations/Inorganic CHEM
- CHEM 3411 - Foundations/Physical Chemistry

Social/Behavioral Science\*

Ethics\*\*\*\*

History\*

Semester Total: 15 hours

## Junior Year Totals: 29 hours

## Senior Year

### First Semester

- CHEM 4501 - Lab Tech In Biochem
- CHEM 4511 - Biochemistry I
- CHEM 4901 - Chemical Research I
- CHEM 4902 - Chemical Research II

Elective

Elective

CHEM UD

Semester Total: 16 hours

### Second Semester

- CHEM 4903 - Chemical Research III

UD CHEM lab

CHEM UD

- CHEM 4999 - Senior Survey

BIOL \*\*\*\*\*

Elective

Elective

Semester Total: 14 hours

Senior Year Totals: 30 hours

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*MATH 4611 or MATH 4635 .

\*\*\*With permission of the Chair of the Chemistry Department, PHYS 2010 / PHYS 2011 and PHYS 2020 /PHYS 2021 be substituted for this sequence.

\*\*\*\*One of the following may be selected: PHIL 3512 PHIL 3514 PHIL 3515

\*\*\*\*\*One of the following may be selected: BIOL 3130 , BIOL 3500 , or CHEM 4512

## **Chemistry - General Concentration, (B.S.)**

Program objectives for a B.S. in Chemistry and a B.S.Ch. in Chemistry are: (a) to have a satisfactory knowledge and comprehension of core concepts of analytical, organic, physical, inorganic and bioorganic chemistry; (b) to develop the ability to critically assess and solve problems relating to theoretical and practical aspects of chemistry; (c) to have satisfactory laboratory skills; (d) to have satisfactory presentation skills to communicate chemical concepts and the results of investigations into chemical phenomena, through oral and written discourse and by way of mathematical sciences (e) to have satisfactory basic computer and computational skills; (f) will be satisfactorily prepared for entry level positions in the field, or for admission to graduate or professional school; (g) to demonstrate an understanding of professional ethics and the importance of chemistry in its impact on society.

## **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

## **The Major (46-53 hours)**

Students must earn a grade of at least "C-" in all CHEM courses applied toward the major or minor, and in all required BIOL, PHYS, and MATH courses. Students must earn a grade of at least "C-" in CHEM 1110 and CHEM 1120 before enrolling in any upper-division CHEM course, and in CHEM 1111 and CHEM 1121 before enrolling in any upper-division CHEM laboratory course.

Any CHEM (or cross-listed) course may be repeated once at the student's option to earn a minimum grade of "C-." To repeat a CHEM (or cross-listed) course a second time, a student may apply for and receive special permission from the Chemistry Department. Application information is available in the Chemistry Department Office, Room 213, J.M. Smith Chemistry Building. No student may take a CHEM (or cross-listed) course more than three times in order to earn a minimum grade of "C-" without extraordinary departmental permission.

## Core Requirements (31 hours):

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (these courses are included in the University General Education Program requirements, credit hours not counted in 46-53 hours for the major)
- CHEM 3111 - Foundations/Inorganic CHEM
- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3411 - Foundations/Physical Chemistry
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- CHEM 4999 - Senior Survey
  
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

or

- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II

## One of the Following Upper Division Ethics Courses:

- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics

## Plus (15-22 hours):

## General Concentration:

Eight (8) upper division semester hours in chemistry not to include more than three credit hours of experiential learning (CHEM 4901, CHEM 4902, CHEM 4903, CHEM 4916, or CHEM 4918)

- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II

## One of the Following Courses:

- MATH 2110 - Calculus III

- MATH 4611 - Intro Applied Statistics
- COMP 1900 - CS1: Intro Comp Science

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Graduating with Honors in Chemistry

Applies to both the B.S.Ch. and the B.S. with a major in Chemistry

1. In order to graduate with Honors in Chemistry, the student must have an overall GPA of 3.25 and a GPA of 3.25 in all science and mathematics courses required for the major.
2. The student must earn honors credit in a minimum of three 3-credit hour upper-division chemistry lecture courses if honors have not been previously earned in CHEM 1110/CHEM 1120, or in a minimum of two 3-credit hour upper-division chemistry lecture courses if honors have been previously earned in CHEM 1110/CHEM 1120. Honors may be contracted in courses not offering a formal Honors section. A minimum grade of B is required in order to earn honors credit.
3. The student must successfully complete CHEM 4901/CHEM 4902/CHEM 4903 with a formal paper required in CHEM 4903 serving as the equivalent of an honors thesis.
4. The student must present his/her research to an audience external to the Department of Chemistry.

## Typical 4-Year Chemistry (B.S.) Sequence, General Concentration

### Freshman Year

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
  - Humanities/Fine Arts\* (3)
- ACAD 1100 - Academic Strategies
- ENGL 1020 - English Comp/Analysis
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- MATH 1920 - Calculus II
  - Social/Behavioral Sci\* (3)

Semester Totals 31 hrs

### Sophomore Year

- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
  - Humanities/Fine Arts\* (3)
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I \*\*\*
- COMM 2381 - Oral Communication
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American
  
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II \*\*\*
  - Social/Behavioral Science\* (3)
  - Elective (3)

Semester Totals 31 hrs

## Junior Year

- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
  - MATH\*\* (3)
  - History\* (3)
  - Elective (3)
  
- CHEM 3111 - Foundations/Inorganic CHEM
  - PHIL 351X\*\*\*\* (3)
  - History\* (3)
- CHEM 3411 - Foundations/Physical Chemistry
  - Elective (3)

Semester Totals 29 hrs

## Senior Year

- UD CHEM (4)
- Elective (3)
- Elective (2)
- UD elective (3)
- UD CHEM (4)
  
- CHEM 4999 - Senior Survey
  - UD elective (3)
  - UD Elective (3)
  - UD elective (3)
  - Elective (3)

Semester Totals 29 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*One of the following may be selected: MATH 2110, MATH 4611, COMP 1900.

\*\*\*With permission of the Chair of the Chemistry Department, PHYS 2010/PHYS 2011 and PHYS 2020/PHYS 2021 may be substituted for this sequence.

\*\*\*\*One of the following may be selected: PHIL 3512, PHIL 3514, PHIL 3515

## Chemistry - General Concentration, (B.S.Ch.)

The department offers a program culminating in the professional degree of Bachelor of Science in Chemistry (B.S.Ch.). This program is designed to meet the requirements of the Committee on Professional Training of the American Chemical Society, and is undertaken primarily by students who desire to go directly to positions in the chemical industry, or to enroll for postgraduate study in chemistry.

### University General Education Program (41 hours)

See Graduation from the University link for the University General Education Program requirements. Note the following specifications for the B.S.Ch. degree: Natural Science - CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121; Mathematics - MATH 1910.

To qualify for the Bachelor of Science in Chemistry degree, the student must complete a minimum of 120 semester hours with a grade point average of at least 2.0. A minimum of 42 semester hours must be in courses from the upper division.

### The Major (52-54 hours)

#### Core Requirements (38-39 hours):

#### Completion of

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (these courses are included in the University General Education Program requirements and must be successfully completed prior to enrolling in the following, credit hours not counted in 52-54 for the major)



- CHEM 3111 - Foundations/Inorganic CHEM
- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3411 - Foundations/Physical Chemistry
- CHEM 3511 - Foundations/Bioorganic CHEM
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 4999 - Senior Survey
  
- PHYS 2110 - Sci/Engr Phys I/Calc  
and
- PHYS 2111 - Sci/Engr Phys Lab I  
and
- PHYS 2120 - Sci/Engr Phys II/Calc  
and
- PHYS 2121 - Sci/Engr Phys Lab II (strongly recommended)  
or
- PHYS 2010 - General Physics I/Trig  
and
- PHYS 2011 - General Physics Lab I  
and
- PHYS 2020 - General Physics II/Trig  
and
- PHYS 2021 - Gen Physics Lab II
  
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II

### One of the Following Upper Division Ethics Courses:

- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics

### Advanced Requirements (17-32 hours)

Nine (9) upper division semester hours in chemistry lecture courses, two upper division chemistry laboratory courses, the undergraduate research course sequence CHEM 4901/CHEM 4902/CHEM 4903, and one of the following courses:

- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
- MATH 4611 - Intro Applied Statistics
- MATH 4635 - Intro Probability Theory
- COMP 1900 - CS1: Intro Comp Science

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Graduating with Honors in Chemistry

Applies to both the B.S.Ch. and the B.S. with a major in Chemistry

1. In order to graduate with Honors in Chemistry, the student must have an overall GPA of 3.25 and a GPA of 3.25 in all science and mathematics courses required for the major.
2. The student must earn honors credit in a minimum of three 3-credit hour upper-division chemistry lecture courses if honors have not been previously earned in CHEM 1110/CHEM 1120, or in a minimum of two 3-credit hour upper-division chemistry lecture courses if honors have been previously earned in CHEM 1110/CHEM 1120. Honors may be contracted in courses not offering a formal Honors section. A minimum grade of B is required in order to earn honors credit.
3. The student must successfully complete CHEM 4901/CHEM 4902/CHEM 4903 with a formal paper required in CHEM 4903 serving as the equivalent of an honors thesis.
4. The student must present his/her research to an audience external to the Department of Chemistry.

## Typical 4-Year Chemistry (B.S.Ch.) Sequence

### Freshman Year

#### First Semester

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
- ACAD 1100 - Academic Strategies
  - Humanities/Fine Arts (3)

#### Second Semester

- ENGL 1020 - English Comp/Analysis
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- MATH 1920 - Calculus II
  - Social/Behavioral Sci (3) \*

Semester Totals 31 hrs

### Sophomore Year

#### First Semester

- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
  - Elective (3)
- PHYS 2110 - Sci/Engr Phys I/Calc \*\*\*
- or
- PHYS 2111 - Sci/Engr Phys Lab I \*\*\*
- COMM 2381 - Oral Communication
- Second Semester
  - Social/Behavioral Sci (3) \*
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- PHYS 2120 - Sci/Engr Phys II/Calc \*\*\*
- PHYS 2121 - Sci/Engr Phys Lab II \*\*\*
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - Elective (3)

Semester Totals 31 hrs

## Junior Year

First Semester

- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
  - MATH (3) \*\*
  - Humanities/Fine Arts (3) \*
  - History (3) \*

Second Semester

- CHEM 3111 - Foundations/Inorganic CHEM
- CHEM 3411 - Foundations/Physical Chemistry
  - Elective (3)
  - Ethics (3) \*\*\*\*
  - History (3) \*

Semester Totals 29 hrs

## Senior Year

First Semester

- CHEM 4902 - Chemical Research II
  - UD CHEM lab (1)
  - UD CHEM (3)
- CHEM 4901 - Chemical Research I
  - Elective (3)
  - Elective (3)
  - CHEM UD (3)

Second Semester

- CHEM 4903 - Chemical Research III
  - UD CHEM lab (1)
  - UD CHEM (3)
- CHEM 4999 - Senior Survey
  - UD elective (3)
  - UD Elective (3)
  - Elective (2)

Semester Totals 29 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*MATH 2110, MATH 2120, MATH 4611, MATH 4635 or COMP 1900.

\*\*\*With permission of the Chair of the Chemistry Department, PHYS 2010/PHYS 2011 and PHYS 2020/PHYS 2021 may be substituted for this sequence.

\*\*\*\*One of the following may be selected: PHIL 3512, PHIL 3514, PHIL 3515

## Child Development and Family Studies, (B.P.S.)

The Bachelor of Professional Studies in Child Development and Family Studies focuses on recognizing and enhancing important developmental milestones for children from birth through adolescence. Students will learn how to create effective learning environments to promote children's healthy development as well as assist parents in creating positive relationships and environments for the development of their children. In addition, students study the stages of development from infancy through adolescence and the ways that family, culture, peers, and schools influence the growth of children. Students will also explore the importance of advocacy for children and their families whether it be in the classroom, hospital, or justice system.

The B.P.S. in Child Development and Family Studies courses are designed to reflect professional standards set forth by the National Association for the Education of Young Children (NAEYC). These standards are critical indicators of program quality.

In addition to core courses based on early childhood development, these guidelines contain course work designed to develop skills and knowledge of the historical, social, cultural, and educational contexts of the field.

**This program DOES NOT lead to teacher licensure. Students interested in gaining a teaching license should contact the College of Education, Health and Human Sciences at 678-2728.**

## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Child Development & Family Studies Core (18 hrs)

- EDPR 2111 - Development Across Lifespan
- CDFS 2100 - Intro Fld of Chld Dev& Fam St
- CDFS 2101 - Family/Global Perspective
- CDFS 3401 - Parent Child Relations
- CDFS 4220 - Understand Chldn/Behv/Guide
- CDFS 4223 - Home/School/Comm Engage

## Family and Society (6 hrs-Take any 2)

- ANTH 3511 - Culture/Kin/Family
- PSYC 4034 - Children Soc Relationships
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 4442 - Sociology of Poverty
- MRCH 4300 - Family Resource Management

## Counseling (3 hrs-Take 1)

- COMM 4341 - Interpersonal Communication
- COUN 4611 - Intro to Counseling
- COUN 4621 - Human Interactions
- COUN 4781 - Strategy/Crisis Intervention
- COUN 4783 - Alcohol/Drug Abuse Services

## Historical Context (3 hrs Take 1)

- ANTH 3282 - American Communities
- HIST 3881 - African American History
- HIST 4831 - History American Family
- HIST 4851 - History of Women in America
- HIST 4853 - African American Women
- HIST 4863 - History/Childhood in America

## Social Services and Public Policy (6 hrs Take 2)

- PADM 3601 - Public Admin
- PADM 4226 - Intro Nonprofit Organizations
- POLS 3213 - Intro to Public Policy
- SWRK 2911 - Soc Response to Human Need
- SWRK 3902 - Human Behavior/Soc Envrnmnt
- SWRK 4934 - Child Welfare Policy/Services

All SWRK courses require permit from the department.

## Educational Context (9 hrs Take 3)

\*University College students MUST be Junior standing in order to enroll in ECED courses\*

- ART 3411 - Art for Children
- CDFS 4101 - Int Curr for Early Learners
- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch \*
- HLSC 3306 - Elementary School Health and Wellness
- ENGL 3401 - Children's Literature
- SPED 2000 - Foundation/Exceptional Learn

## Internship (3 hours)

- UNIV 4110 - Internship

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

Students must take enough electives hours to earn a minimum of 120 semester hours.

- \* 60 of these hours must be taken at a 4-year institution
- \* A minimum of 30 of the last 60 hours must be completed at the University of Memphis.
- \* A minimum of 42 upper division hours are required (3000 – 4000 level courses)
- \* A minimum of 9 graded hours in the major must be completed at the University of Memphis

## Child Life Specialist (B.P.S.)

These guidelines are designed for persons seeking careers as child life specialists. Child life specialists are professionals who work closely with children and their families in hospitals and other settings to help them cope with the challenges of hospitalization, illness, and disability. Child life specialists provide children with age-appropriate preparation for medical procedures, pain management and coping strategies through a variety of different activities. Students must complete the application process as the field is highly selective.

**This program DOES NOT lead to teacher licensure. Students interested in gaining a teaching license should contact the College of Education at 678-2728 or visit their website at: <http://www.memphis.edu/tep/>.**

## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Child Development & Family Studies Core (18 hrs)

- EDPR 2111 - Development Across Lifespan
- CDFS 2100 - Intro Fld of Chld Dev& Fam St
- CDFS 2101 - Family/Global Perspective
- CDFS 3401 - Parent Child Relations
- CDFS 4220 - Understand Chldn/Behv/Guide
- CDFS 4223 - Home/School/Comm Engage

## Child Life Specialist Concentration (22 hours)

Many upper-division (3000/4000-level) courses have prerequisites that must be met prior to being permitted to register for those courses. You are responsible for knowing and satisfying all course prerequisites. Some (not all) prerequisites are listed below. For specific information about courses and the prerequisites they may have, please view course descriptions at: <http://www.memphis.edu/ugcatalog/coursedescrip/index.php>.

Many courses also require permits from the department that teaches the course. For example, SWRK and CJUS courses will always need permits from those respective departments. University College staff cannot issue permits for courses taught in other departments.

ALL 3000/4000 level classes taught by the College of Business (ACCT, ECON, FIR, MGMT, MKTG) require a permit; students must request a permit online at: <https://fcbacad.memphis.edu/ugad/permits/>

- CDFS 4240 - Hospitalized Children and Their Families
- CDFS 4260 - Child Life: Theory and Practice
- CDFS 4300 - Play/Therapeutic Interventions
- PSYC 4513 - Psychology of Grief/Loss
- HIST 4863 - History/Childhood in America
- CLAS 3021 - Medical Terminology
- SOCI 3311 - Social Statistics OR
- EDPR 4541 - Fundmntl/Applied Stat Method OR
- HCL 4010 - Healthcare Stats/Research

## Guided Electives & Practicum (16 hours)

### **Group A: Family Dynamics - (Choose one)**

- ANTH 3511 - Culture/Kin/Family
- SOCI 3831 - Marriage and Family
- UNIV 3535 - Family Communication

### **Group B: Diverse Interactions - (Choose one)**

- SPED 2000 - Foundation/Exceptional Learn
- SOCI 3422 - Racial/Ethnc Minorities
- COUN 4621 - Human Interactions

### **Group C: Early Childhood - (Choose one)**

- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch
- ECED 4540 - Pln/Fcct Infant/Toddler Dev
- EDPR 4301 - Early Child Dev/Begin Teacher

### **Group D: Educational Context - (Choose one)**

- ENGL 3401 - Children's Literature
- ART 3411 - Art for Children
- CDFS 4101 - Int Curr for Early Learners

### **Group E: Field Experience (4 hours)**

- UNIV 4110 - Internship

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)



## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Electives (25-31 hours)

Electives will be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Civil Engineering - Construction Engineering Concentration, (B.S.C.E.)

### University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

#### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

#### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

#### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History

Waived for B.S.C.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)

### Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization

- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I
  
- CIVL 3131 - Design of Steel Structures
  
- or
  
- CIVL 4135 - Reinforced Concrete Design
  
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

## Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design
  
- or
  
- CIVL 3131 - Design of Steel Structures
  
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering

- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project
  - CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology

## Construction Engineering:

A student may select courses from the following concentration to satisfy civil engineering elective requirements. If the student declares a concentration, a minimum of 9 hours from that concentration area is required.

- CIVL 4164 - Route Location and Design
- CIVL 4171 - Construction Engineering
- CIVL 4191 - Civil Engr Project

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)

Academic Year Total 35 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- CIVL 3322 - Mechanics of Materials

Academic Year Total 35 hrs

## Junior Year

- CIVL 3137 - Civil Engr Materials
  - CIVL 3325 - Mechanics of Materials Lab
  - CIVL 3180 - Civil Engr Hydraulics
  - CIVL 3121 - Structural Analysis I
    - Humanities/Fine Arts (3) \*
  - CIVL 3103 - Approx/Uncertainty in Engr
  - CIVL 3131 - Design of Steel Structures
- or
- CIVL 4135 - Reinforced Concrete Design
  - CIVL 3161 - Transportation Systems Engr
  - CIVL 3140 - Environmental Systems Engr
  - CIVL 4151 - Soil Mechanics
  - CIVL 3182 - Hydraulics and Hydrology Lab

Academic Year Total 31 hrs

## Senior Year

- CIVL 3181 - Hydraulics and Hydrology
  - Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental
  - CIVL Elective (Grp1 or 2) (3)
  - CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

## **Civil Engineering - Environmental Engineering Concentration, (B.S.C.E.)**

University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### History

Waived for B.S.C.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)

### Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization
- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I
- CIVL 3131 - Design of Steel Structures

or

- CIVL 4135 - Reinforced Concrete Design
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

## Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design
- or
- CIVL 3131 - Design of Steel Structures
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering
- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project
  - CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology



## Environmental Engineering:

A student may select courses from the following concentration to satisfy civil engineering elective requirements. If the student declares a concentration, a minimum of 9 hours from that concentration area is required.

- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4191 - Civil Engr Project

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)

Academic Year Total 35 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*
  - MATH 3120 (3)
- MECH 2332 - Dynamics

- CIVL 3322 - Mechanics of Materials

Academic Year Total 35 hrs

## Junior Year

- CIVL 3137 - Civil Engr Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3121 - Structural Analysis I
  - Humanities/Fine Arts (3) \*
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3131 - Design of Steel Structures

or

- CIVL 4135 - Reinforced Concrete Design
- CIVL 3161 - Transportation Systems Engr
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3182 - Hydraulics and Hydrology Lab

Academic Year Total 31 hrs

## Senior Year

- CIVL 3181 - Hydraulics and Hydrology
  - Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental
  - CIVL Elective (Grp1 or 2) (3)
  - CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

## **Civil Engineering - Geotechnical Engineering Concentration, (B.S.C.E.)**

University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### **Communication**

- ENGL 3603 - Engineering Communications instead of COMM 2381.

### **Mathematics**

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

### **Natural Science**

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### **History**

Waived for B.S.C.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)

### Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization
- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I
  
- CIVL 3131 - Design of Steel Structures

or

- CIVL 4135 - Reinforced Concrete Design
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

## Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design
- or
- CIVL 3131 - Design of Steel Structures
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering
- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project
  - CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology

## Geotechnical Engineering:

A student may select courses from the following concentration to satisfy civil engineering elective requirements. If the student declares a concentration, a minimum of 9 hours from that concentration area is required.

- CIVL 4152 - Applied Soil Mechanics
- CIVL 4171 - Construction Engineering
- CIVL 4191 - Civil Engr Project

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)

Academic Year Total 35 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- CIVL 3322 - Mechanics of Materials

Academic Year Total 35 hrs

## Junior Year

- CIVL 3137 - Civil Engr Materials
  - CIVL 3325 - Mechanics of Materials Lab
  - CIVL 3180 - Civil Engr Hydraulics
  - CIVL 3121 - Structural Analysis I
    - Humanities/Fine Arts (3) \*
  - CIVL 3103 - Approx/Uncertainty in Engr
  - CIVL 3131 - Design of Steel Structures
- or
- CIVL 4135 - Reinforced Concrete Design
  - CIVL 3161 - Transportation Systems Engr
  - CIVL 3140 - Environmental Systems Engr
  - CIVL 4151 - Soil Mechanics
  - CIVL 3182 - Hydraulics and Hydrology Lab

Academic Year Total 31 hrs

## Senior Year

- CIVL 3181 - Hydraulics and Hydrology
  - Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental
  - CIVL Elective (Grp1 or 2) (3)
  - CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

## **Civil Engineering - Structural Engineering Concentration, (B.S.C.E.)**

University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### History

Waived for B.S.C.E. students who have completed one unit of American history in high school.



## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)

### Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization
- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I
  
- CIVL 3131 - Design of Steel Structures

or

- CIVL 4135 - Reinforced Concrete Design
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

## Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design
- or
- CIVL 3131 - Design of Steel Structures
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering
- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project
  - CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology

## Structural Engineering:

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design
- or
- CIVL 3131 - Design of Steel Structures
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4191 - Civil Engr Project
- CIVL 4122 - Structural Analysis II

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)

Academic Year Total 35 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*

- MATH 3120 (3)
- MECH 2332 - Dynamics
- CIVL 3322 - Mechanics of Materials

Academic Year Total 35 hrs

## Junior Year

- CIVL 3137 - Civil Engr Materials
  - CIVL 3325 - Mechanics of Materials Lab
  - CIVL 3180 - Civil Engr Hydraulics
  - CIVL 3121 - Structural Analysis I
    - Humanities/Fine Arts (3) \*
  - CIVL 3103 - Approx/Uncertainty in Engr
  - CIVL 3131 - Design of Steel Structures
- or
- CIVL 4135 - Reinforced Concrete Design
  - CIVL 3161 - Transportation Systems Engr
  - CIVL 3140 - Environmental Systems Engr
  - CIVL 4151 - Soil Mechanics
  - CIVL 3182 - Hydraulics and Hydrology Lab

Academic Year Total 31 hrs

## Senior Year

- CIVL 3181 - Hydraulics and Hydrology
  - Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental
  - CIVL Elective (Grp1 or 2) (3)
  - CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

## **Civil Engineering - Transportation Engineering Concentration, (B.S.C.E.)**

University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### **Communication**

- ENGL 3603 - Engineering Communications instead of COMM 2381.

### **Mathematics**

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

### **Natural Science**

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History

Waived for B.S.C.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)

### Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization

- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I
  
- CIVL 3131 - Design of Steel Structures
  
- or
  
- CIVL 4135 - Reinforced Concrete Design
  
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

## Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design
  
- or
  
- CIVL 3131 - Design of Steel Structures
  
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering

- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project
  - CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology

## Transportation Engineering:

A student may select courses from the following concentration to satisfy civil engineering elective requirements. If the student declares a concentration, a minimum of 9 hours from that concentration area is required.

- CIVL 4162 - Traffic Engineering
- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4191 - Civil Engr Project

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)

### Academic Year Total 35 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc



- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- CIVL 3322 - Mechanics of Materials

Academic Year Total 35 hrs

## Junior Year

- CIVL 3137 - Civil Engr Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3121 - Structural Analysis I
  - Humanities/Fine Arts (3) \*
- CIVL 3103 - Approx/Uncertainty in Engr
  
- CIVL 3131 - Design of Steel Structures
  
- or
  
- CIVL 4135 - Reinforced Concrete Design
- CIVL 3161 - Transportation Systems Engr
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3182 - Hydraulics and Hydrology Lab

Academic Year Total 31 hrs

## Senior Year

- CIVL 3181 - Hydraulics and Hydrology
  - Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental
  - CIVL Elective (Grp1 or 2) (3)
  - CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

## **Civil Engineering, (B.S.C.E.)**

### University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

#### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

#### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

#### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

#### History

Waived for B.S.C.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)

### Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization
- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I
- CIVL 3131 - Design of Steel Structures

or

- CIVL 4135 - Reinforced Concrete Design
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

## Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design
- or
- CIVL 3131 - Design of Steel Structures
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering
- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project
  - CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)

Academic Year Total 35 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
  - or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- CIVL 3322 - Mechanics of Materials

Academic Year Total 35 hrs

### Junior Year

- CIVL 3137 - Civil Engr Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3121 - Structural Analysis I
  - Humanities/Fine Arts (3) \*

- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3131 - Design of Steel Structures
- or
- CIVL 4135 - Reinforced Concrete Design
- CIVL 3161 - Transportation Systems Engr
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3182 - Hydraulics and Hydrology Lab

Academic Year Total 31 hrs

## Senior Year

- CIVL 3181 - Hydraulics and Hydrology
  - Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental
  - CIVL Elective (Grp1 or 2) (3)
  - CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

## Communication, (B.A.)

The program objectives for a B.A. in Communication are linked to five key areas:

1. **Performance:** Students will demonstrate competence in producing messages for different purposes, audiences, and contexts.
2. **Analysis and Critical Thinking:** Students will analyze, interpret and evaluate messages across various forms and contexts.
3. **Knowledge:** Students will know the development of communication studies from its rhetorical roots through social scientific perspectives to contemporary critical approaches.
4. **Ethics:** Students will articulate ethical principles and apply them in diverse communication contexts.
5. **Mediated Communication:** Students will understand the impact of media forms on communication processes.

## University General Education Program (41 hours)

See University General Education Program for the University General Education Program requirements.

## Bachelor of Arts (B.A.) (6-9 hours)

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

## The Major (33-37 hours)

### Major Core (6 hours)

All students must take

- COMM 2100 - Communication Inquiry
- COMM 2381 - Oral Communication (included in the University General Education Program)

### Note:

A 2.0 cumulative GPA is required for all courses completed in the major. In addition, all students must fulfill the requirements for one of the following concentrations:

### Concentrations (27-31hours):

- a. Communication Studies
- b. Film and Video Production

### Electives (12 - 20 hours)

Completion of courses to bring the total to 120 semester hours.

### Honors Program

To be eligible for admission to the Communication Honors program a student must meet the following requirements: (1) declare a major in Communication, (2) have completed 12 hours of Communication coursework, (3) have Department of Communication faculty member as an adviser, and (4) make an honors application to the adviser. Applications may be obtained from the director of the honors program or from the department office.

To be awarded departmental honors at graduation with the designation "With Honors in Communication," a student must fulfill the following requirements: (1) maintain a 3.5 GPA in communication coursework, (2) maintain a 3.5 GPA overall, (3) complete all Department of Communication major requirements, (4) complete an independent thesis or an independent film/video project sponsored by a Department of Communication faculty member consisting of six hours over two semesters: three hours in research preparation (COMM 3330, COMM 4381, or COMM 4891), and three hours in completing the thesis project (COMM 4999), and (5) successful defense of the thesis.

## Communication, Communication Studies Concentration (B.A.)

### Communication Major (B.A.)

The program objectives for a B.A. in Communication are linked to five key areas:

1. **Performance:** Students will demonstrate competence in producing messages for different purposes, audiences, and contexts.
2. **Analysis and Critical Thinking:** Students will analyze, interpret and evaluate messages across various forms and contexts.
3. **Knowledge:** Students will know the development of communication studies from its rhetorical roots through social scientific perspectives to contemporary critical approaches.
4. **Ethics:** Students will articulate ethical principles and apply them in diverse communication contexts.
5. **Mediated Communication:** Students will understand the impact of media forms on communication processes.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### Bachelor of Arts (B.A.) (6-9 hours)

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

### The Major (33-37 hours)

#### Major Core (6 hours)

All students must take

- COMM 2100 - Communication Inquiry
- COMM 2381 - Oral Communication (included in the University General Education Program)



## Note

A 2.0 cumulative GPA is required for all courses completed in the major. In addition, all students must fulfill the requirements for the following concentration:

### Communication Studies (31 hours):

- COMM 2101 - Media and Info Literacy
- COMM 3001 - Rhetoric/Civic Controversy
- COMM 3100 - Communication Ethics
- COMM 3330 - Communication Research Methods
- COMM 4381 - Senior Capstone

### Plus Three Courses From One of the Following Focus Areas:

#### Professional & Relational Communication

- COMM 3012 - Health Communication
- COMM 3322 - Theories of Persuasion
- COMM 3341 - Discussion
- COMM 4011 - Communication in Organizations
- COMM 4014 - Communication on the Internet
- COMM 4015 - Health Literacy
- COMM 4016 - Public Health Campaigns
- COMM 4340 - Listening
- COMM 4341 - Interpersonal Communication
- COMM 4342 - Small Group Communication
- COMM 4363 - Dialogue
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- COMM 4380 - Communication and Conflict

#### Rhetoric & Public Advocacy

- COMM 3321 - Argumentation and Advocacy
- COMM 3322 - Theories of Persuasion
- COMM 3341 - Discussion
- COMM 3360 - Rhetoric/Pop Culture
- COMM 3361 - African-American Rhetoric
- COMM 4013 - Political Communication
- COMM 4340 - Listening
- COMM 4360 - American Eloquence
- COMM 4364 - Voices/American Women
- COMM 4365 - Place/Community/Communication
- COMM 4380 - Communication and Conflict

## Media & Culture

- COMM 1851 - Introduction to Film
- COMM 3003 - Television and Culture
- COMM 3322 - Theories of Persuasion
- COMM 3360 - Rhetoric/Pop Culture
- COMM 3800 - Media Industries
- COMM 3820 - Broadcast Prep and Performance
- COMM 3821 - Audio Narratives
- COMM 4811 - Media 2.0
- COMM 4850 - Film History I
- COMM 4851 - Film History II
- COMM 4853 - Documentary Form Film
- COMM 4854 - Documentary Form Broadcasting
- COMM 4856 - Gender and Film
- COMM 4858 - Contemporary Cinema
- COMM 4859 - Monster Films
- COMM 4860 - Reality TV
- COMM 4014 - Communication on the Internet

## Plus 6 Additional Hours of Comm Electives

### Electives (12 - 20 hours)

Completion of courses to bring the total to 120 semester hours.

## Honors Program

To be eligible for admission to the Communication Honors program a student must meet the following requirements: (1) declare a major in Communication, (2) have completed 12 hours of Communication coursework, (3) have Department of Communication faculty member as an adviser, and (4) make an honors application to the adviser. Applications may be obtained from the director of the honors program or from the department office.

To be awarded departmental honors at graduation with the designation "With Honors in Communication," a student must fulfill the following requirements: (1) maintain a 3.5 GPA in communication coursework, (2) maintain a 3.5 GPA overall, (3) complete all Department of Communication major requirements, (4) complete an independent thesis or an independent film/video project sponsored by a Department of Communication faculty member consisting of six hours over two semesters: three hours in research preparation (COMM 3330, COMM 4381, or COMM 4891), and three hours in completing the thesis project (COMM 4999), and (5) successful defense of the thesis.

## Typical 4-Year Communication Studies Concentration Sequence

### Freshman Year

- COMM 2100 - Communication Inquiry
- ENGL 1010 - English Composition
  - Math\* (3-4)
  - Foreign Language/B.A. (or elective)\*\* (3)
  - Social/Behavioral Science (3)\*
- COMM 2101 - Media and Info Literacy
- ENGL 1020 - English Comp/Analysis
  - Humanities/Fine Arts\* (3)
  - Foreign Language/B.A. (or elective)\*\* (3)
  - Social/Behavioral Science (3)\*

Semester Totals 30-31 hrs

## Sophomore Year

- COMM 2381 - Oral Communication
  - ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
    - Foreign Language/B.A. (3)
    - Natural Science (4)\*
    - History\* (3)
  - COMM 3001 - Rhetoric/Civic Controversy
  - COMM 1851 - Introduction to Film
    - Foreign Language/B.A. (3)
    - Natural Science (4)\*
    - History\* (3)

Semester Totals 32 hrs

## Junior Year

- COMM 3100 - Communication Ethics
    - COMM Focus Area Course 1 (3)
    - COMM elective (3)
    - UD elective (3)
- Elective (3)
- COMM 3330 - Communication Research Methods
    - COMM Focus Area Course 2 (3)
    - UD Elective (3)
    - UD Elective (3)
- Elective (3)

Semester Totals 31 hrs

## Senior Year

- COMM Focus Area Course 3 (3)
- UD COMM Elective (3)
- UD Elective (3)
- UD Elective (3)

Elective (3)

- COMM 4381 - Senior Capstone
  - UD COMM Elective (3)
  - Elective (3)
  - Elective (3)

Semester Totals 27 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\* Must satisfy University General Education Program Requirement

\*\*Students presenting a language to meet University admission requirements cannot receive credit for 1010 in that language.

## Computer Engineering, (B.S.CP.E.)

### Minors:

Students satisfying the requirements for the Bachelor of Science in Computer Engineering may also satisfy requirements for a minor offered by a department in one of the other colleges. Requirements for a minor are specified by the appropriate college and department. Students should submit application for the minor to the appropriate department chair. Candidates for graduation who satisfy requirements for a minor should file the approved application with the intent-to-graduate cards.

### General Education (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

## Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

## Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

## History

Waived for B.S.CP.E. students who have completed one unit of history in high school.

## Social/Behavioral Sciences

- ECON 2010 - Intro to Macroeconomics must be taken in addition to 3 hours from the other specified choices.

## Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## College and Degree Requirements (24 hours)

### Mathematics (17 hours)

- MATH 1920 - Calculus II
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics
- COMP 2700 - Discrete Structures

## Natural Science (4 hours)

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

## Collateral Course (3 hours)

- ENGR 1010 - Engineering Problem Solving

## The Major (62 hours)

### Major Core (56 hours)

Completion of the following:

- EECE 1208 - Intro EECE Lab
- COMP 1900 - CS1: Intro Comp Science
- EECE 2201 - Circuit Analysis I
- EECE 2207 - Engineering Math Applications
- EECE 2222 - Digital Circuit Design
- COMP 2150 - CS2: OOP and Data Structures
- COMP 4270 - Operating Systems
- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- EECE 3204 - Signals and Systems II
- EECE 3211 - Electronics I
- EECE 3270 - Intro to Microprocessor
- EECE 4081 - Software Engineering
- EECE 4278 - Computer Organization
- EECE 4279 - Professional Development
- EECE 4280 - Electrical/Computer Engr Design
- EECE 4991 - Electrical/Computer Projects I

## Electives (6 hours)

Computer Engineering electives from:

- EECE 4222 - Digital Logic/Computer Design
- EECE 4277 - DSP Microprocessors
- EECE 4710 - Computer Architecture
- EECE 4711 - Fault Tolerant Computer Des
- EECE 4712 - Embedded Systems
- EECE 4272 - Engineering Software
- EECE 4273 - Database Engineering
- EECE 4275 - Network Programming
- EECE 4276 - Adv Network Programming
- EECE 4720 - Intro Artificial Intelligence

- EECE 4730 - Expert Systems
- EECE 4731 - Data Visualization

## Typical 4-Year Computer Engineering Sequence

### Freshman Year

#### Fall Semester

- EECE 1208 - Intro EECE Lab
- ENGL 1010 - English Composition
- ENGR 1010 - Engineering Problem Solving
- MATH 1910 - Calculus I
  - Humanities/Fine Arts\*

#### Spring Semester

- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- COMP 1900 - CS1: Intro Comp Science

Academic Year Total 29 hrs

### Sophomore Year

#### Fall Semester

- EECE 2201 - Circuit Analysis I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures

#### Spring Semester

- EECE 2207 - Engineering Math Applications
- EECE 2222 - Digital Circuit Design
- MATH 2120 - Differential Equations
- EECE 3211 - Electronics I

Academic Year Total 30 hrs

### Junior Year

**Fall Semester**

- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- MATH 3242 - Intro Linear Algebra

**Spring Semester**

- EECE 3204 - Signals and Systems II
- MATH 4614 - Probability/Statistics
- EECE 3270 - Intro to Microprocessor
- EECE 4991 - Electrical/Computer Projects I
- ENGL 3603 - Engineering Communications

Academic Year Total 33 hrs

**Senior Year****Fall Semester**

- EECE 4278 - Computer Organization
  - CpE Elective (3)
- ECON 2010 - Intro to Macroeconomics
- EECE 4081 - Software Engineering
- EECE 4279 - Professional Development

**Spring Semester**

- EECE 4280 - Electrical/Computer Engr Design
- COMP 4270 - Operating Systems
  - CpE elective (3)
  - Humanities/Fine Arts (3) \*
  - Social/Behavioral Sciences (3) \*

Academic Year Total 30 hrs

Total Hours: 122

Total Hours Required for Graduation: 122

\*Must satisfy University General Education Program Requirement.



## Computer Science, (B.S.)

The Department of Computer Science offers courses leading to a B.S. degree with a major in computer science, or a second major in computer science, or a minor in computer science. Our B.S. degree program is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (CAC/ABET).

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Computer Science major: Mathematics - MATH 1910; Natural Science - PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121 or CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121, or BIOL 1110/BIOL 1111, BIOL 1120/BIOL 1121; ECON 2020 is strongly recommended for the Social Science requirement.

### The Major (63 hours in addition to University General Education Program)

- MATH 1910 - Calculus I
- MATH 1920 - Calculus II
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics
  - Three Natural Science courses and labs (one sequence of Natural Science as mentioned above in General Education and a third course from the Natural Science list)
- COMP 1900 - CS1: Intro Comp Science
- COMP 1950 - Ethics and Professional Dev
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures
- COMP 3115 - Database Process and Design
- COMP 3410 - Computer Org/Architecture
- COMP 3825 - Network/Info Assurance
- COMP 4030 - Design/Analysis Algorithms
- COMP 4081 - Software Engineering
- COMP 4270 - Operating Systems
- COMP 4882 - Capstone Software Proj

#### Note:

Seniors are required to take the Computer Science Field Test the same semester that they take COMP 4882.

### Electives in the Major (12 hours)

- COMP 4040 - Programming Languages
- COMP 4601 - Models of Computation

and two COMP electives, which may not be any of 4001, 4005, or 4014.

## Second Major in Computer Science (34 hours)

Completion of 34 semester hours in computer science courses including

- COMP 1900 - CS1: Intro Comp Science
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures
- COMP 3115 - Database Process and Design
- COMP 3410 - Computer Org/Architecture
- COMP 4030 - Design/Analysis Algorithms
- COMP 4081 - Software Engineering
- COMP 4270 - Operating Systems
  - Six (6) semester hours in upper-division COMP courses
  - Nine (9) additional hours of computer science related courses

### Note:

COMP 4001, COMP 4005 and COMP 4014 may not be used to fulfill any of these requirements. Coursework must be chosen in consultation with approval of an advisor in the Department of Computer Science.

## Electives

Electives may be chosen to bring the total number of semester hours to 120. At least three of these elective hours must be from upper division courses. Students should talk to their advisors to determine most suitable courses for them.

## Computer Science Honors Designation

A student will earn the designation "with Honors in Computer Science" upon graduation having complied with the following requirements:

1. Be admitted into the Computer Science Honors Program by the Department upon formal request for consideration by the student;
2. Have a cumulative GPA of at least 3.0 and a GPA of at least 3.60 in Computer Science (COMP) courses satisfying degree requirements;
3. Complete fifteen (15) credit hours in courses designated "Honors" in the the Computer Science program and satisfying degree requirements;
4. Take honors sections of both COMP 1900 and COMP 2150 (core sequence);
5. Take at least three (3) credit hours from the following courses taken as honors sections: COMP 4901 (independent study), COMP 4996 (senior thesis), and COMP 4882 (capstone software project).

## Typical 4 Year Sequence Computer Science

### Freshman Year

- ENGL 1010 - English Composition
- GE MATH- MATH 1910 - Calculus I
- COMP 1900 - CS1: Intro Comp Science
- COMP 1950 - Ethics and Professional Dev
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- COMP 2700 - Discrete Structures
- COMP 2150 - CS2: OOP and Data Structures

Semester Totals: 29 hrs

### Sophomore Year

- COMP 3410 - Computer Org/Architecture
  - GE Natural Science w/lab\*
- MATH 4614 - Probability/Statistics
- ENGL 2201 - Literary Heritage or 2202 Credits / Units: 3
- COMP 3115 - Database Process and Design
  - GE Natural Science w/lab\*
- COMP 3825 - Network/Info Assurance
  - GE Humanities/Fine Arts
  - Social/Behavioral Science

Semester Totals: 30 hrs

### Junior Year

- COMP 4270 - Operating Systems
- MATH 3242 - Intro Linear Algebra
- COMP 4410 - Computer Security
  - Elective
  - GE History
- COMP 4030 - Design/Analysis Algorithms
- COMP 4040 - Programming Languages
  - Elective
  - GE History
  - Natural Science w/lab

Semester Totals: 31 hrs

## Senior Year

- COMP 4081 - Software Engineering
- COMP 4601 - Models of Computation
- COMM 2381 - Oral Communication
  - Elective
  - GE Social/Behavioral Science
- COMP 4882 - Capstone Software Proj
  - COMP Elective
  - UD Elective
  - Elective
  - GE Humanities/Fine Arts

Semester Totals: 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Natural Science - One sequence and one additional course/lab from: PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121; OR CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121; OR BIOL 1110/BIOL 1111, BIOL 1120/BIOL 1121.

## Computer Science, Cybersecurity Concentration (B.S.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Computer Science major: Mathematics - MATH 1910; Natural Science - PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121 or CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121, or BIOL 1110/BIOL 1111, BIOL 1120/BIOL 1121; ECON 2020 is strongly recommended for the Social Science requirement.

### The Major (63 hours in addition to University General Education Program)

- MATH 1910 - Calculus I
- MATH 1920 - Calculus II
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics
  - Three Natural Science courses and labs (one sequence of Natural Science as mentioned above in General Education and a third course from the Natural Science list)
- COMP 1900 - CS1: Intro Comp Science

- COMP 1950 - Ethics and Professional Dev
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures
- COMP 3115 - Database Process and Design
- COMP 3410 - Computer Org/Architecture
- COMP 3825 - Network/Info Assurance
- COMP 4030 - Design/Analysis Algorithms
- COMP 4081 - Software Engineering
- COMP 4270 - Operating Systems
- COMP 4882 - Capstone Software Proj

## Note:

Seniors are required to take the Computer Science Field Test the same semester that they take COMP 4882.

## Cybersecurity Concentration

- COMP 4410 - Computer Security
- COMP 4420 - Wireless and Mobile Security
- COMP 4430 - Digital Forensics
- COMP 4432 - Secure Coding and Testing

Total Hours: 120

## Typical 4 Year Sequence Computer Science-Cybersecurity Concentration

### Freshman Year

#### First Semester

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- COMP 1900 - CS1: Intro Comp Science
- COMP 1950 - Ethics and Professional Dev

#### Second Semester

- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- COMP 2700 - Discrete Structures
- COMP 2150 - CS2: OOP and Data Structures

Semester Totals: 29 hrs

## Sophomore Year

### First Semester

- COMP 3410 - Computer Org/Architecture
- MATH 4614 - Probability/Statistics
  - Natural Science with lab\*
- ENGL 2201 - Literary Heritage OR
- ENGL 2202 - Lit Heritage: African-American

### Second Semester

- COMP 3115 - Database Process and Design
- COMP 3825 - Network/Info Assurance
  - Natural Science with lab\*
  - Humanities
  - Social Behavioral Science

Semester Totals: 30 hrs

## Junior Year

### First Semester

- COMP 4270 - Operating Systems
- COMP 4410 - Computer Security
- MATH 3242 - Intro Linear Algebra
  - Elective (3)
  - History

### Second Semester

- COMP 4030 - Design/Analysis Algorithms
- COMP 4430 - Digital Forensics
  - Elective (3)
  - History
  - Natural Science with lab

Semester Totals: 31 hrs

## Senior Year

### First Semester

- COMP 4081 - Software Engineering
- COMP 4420 - Wireless and Mobile Security
- COMM 2381 - Oral Communication

- Elective (3)
- Social Behavioral Science

#### Second Semester

- COMP 4882 - Capstone Software Proj
- COMP 4432 - Secure Coding and Testing
  - Elective (3)
  - UD Elective (3)
  - Humanities

Semester Totals: 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Natural Science - One sequence and one additional course/lab from: PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121; OR CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121; OR BIOL 1110/BIOL 1111, BIOL 1120/BIOL 1121.

## **Criminology and Criminal Justice, (B.A.)**

Program objectives for a B.A. in Criminology and Criminal Justice are: (a) exhibit an understanding of the important functions, organization, and fundamental concepts of the operation of the criminal justice system (police, law/courts, corrections) in a democratic society; (b) acquire knowledge of the development of the components of the criminal justice system from an historical and cross-cultural perspective; (c) know the major theorists and theoretical orientations that help explain criminal behavior; (d) be able to understand, analyze, and critically evaluate basic research and data relevant to crime and the criminal justice system; (e) demonstrate an ability to formulate a thesis and to gather and critically assess information appropriate to a topic under study; (f) have the ability to effectively communicate both in written and oral form; (g) have an understanding of career and educational options that a bachelor's degree in Criminology and Criminal Justice provides.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

### **College and Degree (B.A.) Requirements (6-9 hours)**

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## The Major (39 hours)

Completion of 39 semester hours including

- CJUS 1100 - Intro/Criminal Justice

either

- CJUS 2226 - Introduction to Police

or

- CJUS 2326 - Introduction to Courts

or

- CJUS 2426 - Intro/Corrections in America

- CJUS 3130 - Research Methods CJUS

- CJUS 3540 - Criminology

- CJUS 4110 - Advanced Application in CJUS

- CJUS 4130 - Ethical Dilemmas/CJUS

- an Upper Division English course

- plus 18 additional hours in criminology and criminal justice, of which at least 15 hours must be at the upper-division level.

## Note

Students will be allowed no more than 6 hours of credit toward the degree in non-classroom courses such as internships and individual directed studies.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

Majors who have completed at least 55 hours of coursework (with at least 9 hours in Criminology & Criminal Justice) and have a 3.25 or higher departmental and overall grade point average are invited to apply for admissions to the department's honors program. Students who are admitted must complete 15 hours of honors coursework in the Department, with at least 9 hours being upper-division criminal justice courses. Honor students must maintain a grade point average of at least 3.25. Students who complete the program and the regular college requirement will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Criminology and Criminal Justice." The student's diploma and the official record at The University of Memphis will also reflect this accomplishment.



## Typical 4-Year Criminology and Criminal Justice Sequence

### Freshman Year

- CJUS 1100 - Intro/Criminal Justice
- ENGL 1010 - English Composition
  - MATH (3-4) \*
  - Foreign Language/B.A. (3)
  - Elective (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
  
- CJUS 2226 - Introduction to Police
- or
- CJUS 2326 - Introduction to Courts
- or
- CJUS 2426 - Intro/Corrections in America
  - Foreign Language/B.A. (3)
  - Social/Behavioral Science (3) \*

Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - CJUS LD elective (3)
  - Humanities (3) \*
  - Natural Science (4) \*
  - History (3) \*
  - Social/Behavioral Science (3) \*
  - Elective (3)
  - Natural Science (4) \*
  - Fine Arts (3) \*
- CJUS 3130 - Research Methods CJUS

Semester Totals 32 hrs

### Junior Year

- History (3) \*
- Elective (3)
- CJUS 3540 - Criminology
  - CJUS UD elective (3)
- COMM 2381 - Oral Communication
  - UD English (3)
- CJUS 4130 - Ethical Dilemmas/CJUS
  - UD elective outside major (3)
  - Elective (3)
  - CJUS UD elective (3)

Semester Totals 30 hrs

## Senior Year

- CJUS UD elective (3)
- CJUS UD elective (3)
- UD elective outside major (3)
- UD elective outside major (3)
- UD elective outside major (3)
- Elective (3)
- CJUS 4110 - Advanced Application in CJUS
  - Elective outside major (4)
  - CJUS UD elective (3)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Disability Studies and Rehabilitation Services, (B.P.S.)

Advising guidelines for the Bachelor of Professional Studies (B.P.S.) degree with a concentration in Disability Studies and Rehabilitation Services are designed for students seeking to be academically and professionally grounded in issues faced by individuals seeking disability services. Students will also be exposed to the theme of employment – including vocational adjustment and appropriate job placement – and independent living outcomes as reaffirmed in the Rehabilitation Act Amendments of 1992. Rehabilitation depends heavily upon communication between both the consumer and professional and among various professionals; consequently, communication will be stressed, as well as an understanding of the potential influence of cultural diversity and individual lifestyle choices. Courses will also enable students to understand the methods used in disability services to solve consumer problems and utilize available resources. Finally, a well-supervised field experience component will provide students the opportunity to integrate classroom principles and develop entry-level skills in a work setting.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Coordinated Study (58-59 hours)

### Professional Core (19 hours)

- COUN 4901 - Princ/Tech/Rehab Counseling
- COUN 4913 - Medical/Psyc Aspects/Rehab
- COUN 4921 - Vocational Dev/Occupation Info
- SWRK 3902 - Human Behavior/Soc Envrnmnt
- SWRK 3903 - Social Work Practice I

### Choose One:

- SWRK 2010 - Introduction to Social Work
- SWRK 2911 - Soc Response to Human Need

## Statistics and Research Methods (3 hours)

### Statistics

- PSYC 3010 - Research and Statistics I
- SOCI 3311 - Social Statistics
- PSYC 3020 - Research and Statistics II
- SOCI 3322 - Methods of Social Research

## Rehabilitation Delivery (12 hours)

- COUN 4611 - Intro to Counseling
- COUN 4781 - Strategy/Crisis Intervention
- COUN 4783 - Alcohol/Drug Abuse Services
- PADM 4207 - Health Politics/Policy
- PETE 3308 - Exceptional Learner Phys Ed
- PSYC 3512 - Health Psychology
- SLS 3905 - Leisure/Recr Disabilities
- THEA 4503 - Creative Dramatics

## Management Services (9 hours)

- ACCT 2010 - Fundamentals of Acct I
- MGMT 3215 - Management of Human Resources
- PADM 3601 - Public Admin
- PADM 4226 - Intro Nonprofit Organizations
- PADM 4227 - Issues/Nonprofit Admin

## Communications (6 hours)

### Professional Communications (3 hours)

- MGMT 3510 - Business Communications
- ENGL 3601 - Technical and Profess Writing
- ENGL 3604 - Persuasive Writing
- COMM 4011 - Communication in Organizations

### Interpersonal Communications (3 hours)

- COMM 4012 - Health Communications
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- COUN 4621 - Human Interactions

## Development and Aging (6 hours)

- EDPR 2111 - Development Across Lifespan
- HMSE 4305 - Problems/Health Sport Science
- LEAD 3350 - The Adult Learner
  - SOCI 4923 - Social Institutions and the Life
- SOCI 3112 - Contemporary Social Problems
- SOCI 4541 - Sociology of Aging
- SOCI 4851 - Medical Sociology
- SOCI 4852 - Sociology of Mental Illness
- UNIV 4527 - The Developing Adult

## Internship (3 hours)

- UNIV 4110 - Internship

## College Requirements (9 hours)

### Thematic Studies (6 hours)

### Senior Project (3 hours)

- UNIV 4995 - Senior Project

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Early Care and Learning, (B.P.S)

The Early Care and Learning (ECL) emphasis provides a foundation for a career in working with young children (0-4) in early care and education and other applied settings.

Students who choose the ECL emphasis are expected to develop knowledge and skills in child development and learning, observation and assessment, pedagogy and research through classroom and field experiences. Students will be prepared for employment in a discipline working with children and families, and may pursue graduate training that leads to careers in education, academia, research, health professions, or social work.

For information on careers in this and other disciplines students should consult the Career Services Office located on the 4th Wilder Tower, 678-2239.

**This Program DOES NOT lead to teacher licensure. Students interested in gaining a teaching license should contact the College of Education at 678-2728 or visit their website at: <http://www.memphis.edu/tep/>**

## General Education (35-41 hours)

Students must complete the 35-41 hours of general education requirements as outlined in the attached general education grid. Please refer to the General Education website at <http://www.memphis.edu/ugcatalog/graduation/gened.php> for specific requirements. Students with majors in University College are exempt from the History general education requirements if they completed one year of History in high school

## Coordinated Study (51 hours)

Many upper-division (3000/4000-level) courses have prerequisites that must be met prior to being permitted to register for those courses. You are responsible for knowing and satisfying all course prerequisites. For specific information about courses and the prerequisites they may have, please view [Course Descriptions](http://www.memphis.edu/ugcatalog/coursedescrip/) at: <http://www.memphis.edu/ugcatalog/coursedescrip/>. Some (not all) pre-requisites are listed below.

Many courses also require permits from the department that teaches the course. For example, SWRK and CJUS courses will always need permits from those respective departments. University College staff cannot issue permits for courses taught in other departments. **ALL 3000/4000 level classes taught by the College of Business (ACCT, ECON, FIR, MGMT, MKTG) require a permit; students must request a permit online at: <https://fcbeacad.memphis.edu/ugad/permits/>**

## Child Development & Family Studies Core (18 hours)

- EDPR 2111 - Development Across Lifespan
- CDFS 2100 - Intro Fld of Chld Dev& Fam St
- CDFS 2101 - Family/Global Perspective
- CDFS 3401 - Parent Child Relations
- CDFS 4220 - Understand Chldn/Behv/Guide
- CDFS 4223 - Home/School/Comm Engage

## Early Care and Learning Core (36 hours)

**\*University college students MUST be at Junior standing (60 credits) in order to enroll in these College of Education courses.**

- CDFS 3410 - Soc Emotion Lrng Early Child
- UNIV 2110 - Field Experience
- CDFS 4101 - Int Curr for Early Learners
- CDFS 4230 - Math/Science Early Learning
- ICL 4001 - Teaching/Diverse Environment
- SPED 2000 - Foundation/Exceptional Learn
- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch
- ECED 4500 - Emergent Literacy/Lang Dev
- ECED 4540 - Pln/Fcft Infant/Toddler Dev
- ECED 4515 - Teach/Lrng Erly Chld Ed
- UNIV 4110 - Internship

## Working with Families Core (3 hours)

- CDFS 4910 - Ethics in Early Care and Learning

## University College Requirements (9 hours)

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (Completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Early Intervention Specialist, (B.P.S.)

The Bachelor of Professional Studies in Early Intervention (ages 0-2) focuses on recognizing the uniqueness of the provision of instruction and/or service coordination in the field of Part C the Federal IDEA legislation for early intervention (ages 0-2). Students will learn how to promote caregiver-child interaction by assisting families to adapt routines and activities to support children's (ages 0-2) learning and interaction. In addition, students will be introduced to adult learning approaches to support caregivers and understand how cultural diversity affects family interactions and practices.

This program is designed to reflect professional standards set forth by the Council for Exceptional Children Division of Early Childhood. These standards are critical indicators of program quality and include:

- Federal IDEA Part C Requirements;
- Typical and atypical patterns of infant and toddler development and learning in all areas;
- Functional assessment of development across domains;
- Developmental disabilities in the birth-to-three population; and
- Specialized instructional strategies to help young children (ages 0-2) learn.

This program prepares students to take the Tennessee Early Intervention Credential exams required to provide Developmental Therapy in the State of Tennessee.

This program DOES NOT lead to teacher licensure. Students interested in gaining a teaching license should contact the College of Education at 678-2728 or visit their website at: <http://www.memphis.edu/tep/>.

## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Child Development & Family Studies Core (18 hrs)

- EDPR 2111 - Development Across Lifespan
- CDFS 2100 - Intro Fld of Chld Dev& Fam St
- CDFS 2101 - Family/Global Perspective
- CDFS 3401 - Parent Child Relations
- CDFS 4220 - Understand Chldn/Behv/Guide
- CDFS 4223 - Home/School/Comm Engage

## Early Intervention Specialist (12 hrs)

- SPED 2000 - Foundation/Exceptional Learn
- SPED 4111 - Intro/Appl Behav Analysis
- SWRK 2010 - Introduction to Social Work
- SWRK 2911 - Soc Response to Human Need

## Early Intervention Specialist Core Supportive Competencies (12 hrs)

- ECED 4540 - Pln/Fcft Infant/Toddler Dev
- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch
- SWRK 3902 - Human Behavior/Soc Envrnmnt

Requires Dept permit, SWRK 2010 or SWRK 2911 and BIOL 1010/BIOL 1011

- UNIV 3535 - Family Communication

## Guided Electives & Field Experience (13 hrs)

### Group A: Family Dynamics (choose one course)

- ANTH 3511 - Culture/Kin/Family
- LEAD 3350 - The Adult Learner
- SOCI 3831 - Marriage and Family
- SWRK 3903 - Social Work Practice I
- SWRK 3904 - Social Work Practice II

### Group B: Diverse Interactions (choose one course)

- SOCI 3422 - Racial/Ethnc Minorities
- COUN 4621 - Human Interactions
- SOCI 4442 - Sociology of Poverty

### Group C: Educational Context (choose one course)

- CDFS 4101 - Int Curr for Early Learners
- ENGL 3401 - Children's Literature
- SPED 3410 - Disorders of Language
- SWRK 4937 - School Social Work



## Field Experience: (4hrs)

- UNIV 4110 - Internship

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Earth Sciences, (B.A.)

Program objectives are: (a) be able to demonstrate an understanding of the fundamental principles, concepts and knowledge of the discipline Earth Sciences (b) have knowledge of the effects of natural processes and human activity on the environment; (c) be able to address, solve and communicate geographic problems using quantitative methods and geographic techniques; (d) be able to critically examine community problems and develop coherent solutions to urban and other land management issues; (e) demonstrate effective written, oral and visual communication skills.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## The Major (35-49 hours)

### Core Requirements (7 hours):

All students must take ESCI 1020 (4) and ESCI 4515 (3). In addition, all students must fulfill the requirements for one of the following concentrations:

### Concentration (28-42 hours):

#### Geoarchaeology (33 hours):

- ESCI 1103 - The Human Planet
- ESCI 2301 - Fundamentals of Archaeology
- ESCI 4202 - Geomorphology
- ESCI 4301 - Archaeology/North America
- ESCI 4325 - Archaeol Fld/Lab Techn
- ESCI 4350 - Archaeology of Collapse
- ESCI 4352 - Old World Archaeology
- ESCI 4521 - Quantitative Methods
  - and six upper division hours as approved by advisor.

#### Geography (28 hours):

- ESCI 1010 - Weather and Climate
- or
- ESCI 1050 - The Earth Through Time
- or
- ESCI 1103 - The Human Planet
- ESCI 1401 - Intro/Cultural Geography
- or
- ESCI 4430 - Economic Geography
- ESCI 1301 - Survey of World Regions
- or

- ESCI 4307 - Thematic Studies/China
- ESCI 4521 - Quantitative Methods
  - and 15 additional upper division hours as approved by advisor.

### Geology (41-42 hours):

- ESCI 1040 - Physical Geology
- ESCI 1050 - The Earth Through Time
- ESCI 3311 - Mineralogy/Petrology
- ESCI 4512 - Structural Geology
- ESCI 3712 - Sedimentology/Stratigraphy
- ESCI 4622 - Geology Field Camp
  
- CHEM 1110 - General Chemistry I
- and
- CHEM 1111 - General Chemistry I Lab
- and
- CHEM 1120 - General Chemistry II
- and
- CHEM 1121 - General Chemistry II Lab
  
- PHYS 2010 - General Physics I/Trig
- and
- PHYS 2011 - General Physics Lab I
- and
- PHYS 2020 - General Physics II/Trig
- and
- PHYS 2021 - Gen Physics Lab II
  
- MATH 1910 - Calculus I (taken as University General Education requirement)
  - and 3-4 ESCI upper division hours approved by advisor.

### Electives (18-23 hours)

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year Geoarchaeology Concentration Sequence

### Freshman Year

- Humanities/Fine Arts (3) \*
- MATH (3-4) \*
- ENGL 1010 - English Composition
  - Elective (3)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Science (3) \*
  - Foreign Language/B.A. (3)

Semester Totals 30-31 hrs

### Sophomore Year

- ESCI 1020 - Landforms
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - Social/Behavioral Sciences (3) \*
  - Fine Arts (3) \*
  - Elective (3)
- ESCI 1103 - The Human Planet
- COMM 2381 - Oral Communication
  - UD elective (2)
  - History (3) \*
  - Elective (3)

Semester Totals 31 hrs

### Junior Year

- ESCI 2301 - Fundamentals of Archaeology
- ESCI 4515 - Geographic Info Science
  - UD elective (3)
  - UD elective (3)
  - Elective (3)
  - History (3) \*
- ESCI 4325 - Archaeol Fld/Lab Techn
  - UD ESCI (3)

- UD Elective (3)
- Elective (3)

Semester Totals 31 hrs

## Senior Year

- Elective (3)
- ESCI 4301 - Archaeology/North America
- ESCI 4202 - Geomorphology
  - UD ESCI (3)
  - UD Elective (3)
- ESCI 4352 - Old World Archaeology
- ESCI 4350 - Archaeology of Collapse
- ESCI 4521 - Quantitative Methods
  - Elective (3)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Typical 4-Year Geography Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3-4) \*
  - Humanities/Fine Arts (3) \*
  - Foreign Language/B.A. (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Social/Behavioral Science (3) \*
  - Foreign Language/B.A. (3)
  - Elective (3)

## Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- ESCI 1301 - Survey of World Regions
  - Fine Arts (3) \*
- ESCI 1010 - Weather and Climate
- or
- ESCI 1050 - The Earth Through Time
- or
- ESCI 1103 - The Human Planet
  - UD elective (3)
  - Elective (3)
- ESCI 1020 - Landforms
  - History (3) \*
- COMM 2381 - Oral Communication

## Semester Totals 32 hrs

### Junior Year

- ESCI 1401 - Intro/Cultural Geography
- or
- ESCI 4430 - Economic Geography
- ESCI 4515 - Geographic Info Science
  - UD ESCI (3)
  - UD elective (3)
  - Elective (3)
  - History (3) \*
  - UD ESCI (3)
  - UD Elective (3)
  - Elective (3)
  - UD Elective (3)

## Semester Totals 30 hrs

## Senior Year

- ESCI 4521 - Quantitative Methods
  - UD ESCI (3)
  - UD elective (3)
  - UD elective (3)
  - Elective (3)
  - UD ESCI (3)
  - UD ESCI (3)
  - UD elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Typical 4-Year Geology Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- ESCI 1020 - Landforms
  - Elective (4)
  - Foreign Language/B.A. (3)
- ENGL 1020 - English Comp/Analysis
- ESCI 1040 - Physical Geology
- MATH 1910 - Calculus I
  - Foreign Language/B.A. (3)

Semester Totals 28 hrs

### Sophomore Year

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ESCI 1050 - The Earth Through Time

- COMM 2381 - Oral Communication
  - Humanities/Fine Arts (3) \*
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
  - Fine Arts (3) \*
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American
  
- ESCI 3311 - Mineralogy/Petrology

Semester Totals 28 hrs

## Junior Year

- History (3) \*
- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- ESCI 3712 - Sedimentology/Stratigraphy
  - UD Elective (3)
  - History (3) \*
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II
- ESCI 4512 - Structural Geology
  - Social/Behavioral Sciences (3) \*

Semester Totals 28 hrs

## Summer of Third or Fourth Year

- ESCI 4622 - Geology Field Camp Summer Field Camp

## Senior Year

- UD ESCI (4)
- ESCI 4515 - Geographic Info Science
  - UD elective (3)
  - Social/Behavioral Sciences (3) \*
  - Elective (3)
  - Elective (3)
  - UD elective (4)
  - UD elective (4)
  - UD elective (3)



Semester Totals 30 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Economics, (B.A.)**

Program objectives can be found in the Business Economics major in the Fogelman College of Business and Economics section.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

### **College and Degree (B.A.) Requirements (6-9 hours)**

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### **The Major (30 hours)**

Completion of 30 semester hours, including

- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- ECON 3310 - Microeconomic Theory
- ECON 3320 - Macroeconomic Theory
  - 18 additional upper division semester hours in economics courses as approved by the department advisor.

### **Electives**

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

To be considered eligible for the Honors Degree Program in Economics, the student must:

1. Maintain a minimum grade of B in honors sections of both ECON 2010 - Intro to Macroeconomics and ECON 2020 - Intro to Microeconomics.
2. Obtain the recommendation of a faculty member in the Department of Economics to the Department Honors Committee.

Once accepted to the Honors Degree Program in Economics, the student must

1. Maintain an average GPA of 3.25 in all economics courses to continue in the program.
2. Have a minimum GPA of 3.5 in all economics courses at graduation.
3. Enroll in ECON 3310 - Microeconomic Theory and ECON 3320 - Macroeconomic Theory with an honors contract. Those contracts will be discussed with and approved by the faculty member teaching each course.
4. Write an honors thesis. This begins with finding a faculty advisor for the thesis project, discussing a thesis topic, then writing the thesis. The honors thesis typically takes one semester to complete, although work on it can begin early. When working on the honors thesis, the student will enroll in a section of ECON 4996 - Honors Thesis in Economics for up to one semester. The completed thesis will be graded by the faculty advisor.

Upon successfully completing all these requirements, the student will be recognized at the commencement ceremony by having their degree conferred "With Honors in Economics." Moreover the student's diploma and the record at the University of Memphis will reflect this accomplishment.

## Typical 4-Year Economics Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH\* (3-4)
  - Humanities/Fine Arts\* (3)
  - Elective (3)
  - Foreign Language/B.A. (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Fine Arts\* (3)
- ECON 2010 - Intro to Macroeconomics
  - Foreign Language/B.A. (3)

Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - Natural Science\* (4)
  - Elective (3)

- ECON 2020 - Intro to Microeconomics
  - History\* (3)
  - History\* (3)
  - Elective (3)
  - Natural Science\* (4)
  - Elective (3)
- COMM 2381 - Oral Communication

Semester Totals 32 hrs

## Junior Year

- UD elective (3)
- UD elective (3)
- UD elective (3)
- UD ECON elective (3)
- ECON 3310 - Microeconomic Theory
  - UD elective (3)
  - UD elective (3)
  - Elective (3)
- ECON 3320 - Macroeconomic Theory
  - UD ECON elective (3)

Semester Totals 30 hrs

## Senior Year

- Elective (3)
- UD ECON (3)
- UD ECON (3)
- UD ECON (3)
- UD ECON (3)
- UD Elective (3)
- Elective (3)
- Elective (4)
- Elective (3)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Electrical Engineering, (B.S.E.E.)

### Minors:

Students satisfying the requirements for the Bachelor of Science in Electrical Engineering may also satisfy requirements for a minor offered by a department in one of the other colleges. Requirements for minors are specified by the appropriate college and department. Students should submit application for the minor to the appropriate department chair. Candidates for graduation who satisfy requirements for a minor should file the approved application with the intent-to-graduate cards.

### University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

#### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

#### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

#### Social/Behavioral Sciences

- ECON 2010 - Intro to Macroeconomics must be taken in addition to 3 hours from the other specified choices.

#### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History

Waived for B.S.E.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (24 hours)

### Mathematics (17 hours)

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics

### Natural Science (4 hours)

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### Collateral Course (3 hours)

- ENGR 1010 - Engineering Problem Solving

## The Major (62 hours)

### Major Core (50 hours)

Completion of 52 hours including:

- EECE 1208 - Intro EECE Lab
  - EECE 1207 - Electrical Engr Computations
- or
- COMP 1900 - CS1: Intro Comp Science
  - EECE 2201 - Circuit Analysis I
  - EECE 2207 - Engineering Math Applications
  - EECE 2222 - Digital Circuit Design
  - EECE 3201 - Circuit Analysis II

- EECE 3203 - Signals and Systems I
- EECE 3204 - Signals and Systems II
- EECE 3211 - Electronics I
  
- EECE 3240 - Electromagnetic Field Theory
  
- or
  
- EECE 4213 - Antenna Theory/Design
  
- or
  
- EECE 4215 - Applied Electromagnetic Fields
  
- EECE 3270 - Intro to Microprocessor
- EECE 4991 - Electrical/Computer Projects I
- EECE 4201 - Energy Conversion
- EECE 4279 - Professional Development
- EECE 4280 - Electrical/Computer Engr Design

## Electives (12 hours)

Three (3) hours of Electrical Engineering electives are chosen from the list below. The other 6 hours are chosen from upper division EECE courses.

## Electrical Engineering Electives (3 hours) -Breadth and Depth

3 hours of Electrical Engineering electives must be chosen from:

- EECE 3212 - Electronics II
- EECE 4230 - Data Communication System
- EECE 4231 - Communication Theory
- EECE 4235 - Probabilistic System Analysis
- EECE 4251 - Control System Engr
- EECE 4252 - Digital Control Systems

## Technical Electives (3 hours)

These electives may be chosen from upper-division courses in engineering, mathematics, physics, or computer science. Approval of department chair is required for all technical electives.

## Note

Students may use elective hours to broaden their base of knowledge or for one of the concentrations below. A minimum of 9 semester hours is required for a concentration. EECE electives and technical may be used to complete a concentration.

Computer Engineering

Electrophysics

Systems and Signals

## Additional Note

With approval, Project II, EECE 4992 can be taken for 3 semester hours credit in any of the areas of concentration.

## Typical 4-Year Electrical Engineering Sequence

### Freshman Year

#### Fall Semester

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- EECE 1208 - Intro EECE Lab
- ENGR 1010 - Engineering Problem Solving
  - Humanities/Fine Arts (3) \*

#### Spring Semester

- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- COMP 1900 - CS1: Intro Comp Science
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I

Academic Year Total 29 hrs

### Sophomore Year

#### Fall Semester

- EECE 2201 - Circuit Analysis I
- EECE 2222 - Digital Circuit Design
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

#### Spring Semester

- EECE 2207 - Engineering Math Applications
- EECE 3211 - Electronics I
- MATH 2120 - Differential Equations
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American

## Academic Year Total 29 hrs

### Junior Year

#### Fall Semester

- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- MATH 3242 - Intro Linear Algebra
- ENGL 3603 - Engineering Communications
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

#### Spring Semester

- EECE 3204 - Signals and Systems II
- EECE 3270 - Intro to Microprocessor
- EECE 4991 - Electrical/Computer Projects I
- MATH 4614 - Probability/Statistics
  
- EECE 3240 - Electromagnetic Field Theory
  
- or
  
- EECE 4213 - Antenna Theory/Design
  
- or
  
- EECE 4215 - Applied Electromagnetic Fields

## Academic Year Total 33 hrs

### Senior Year

#### Fall Semester

- EECE 4201 - Energy Conversion
  - EECE elective (3)
  - EECE elective (3)
- EECE 4279 - Professional Development
  - Humanities/Fine Arts (3) \*

#### Spring Semester

- EECE 4280 - Electrical/Computer Engr Design
  - EECE elective (3)
- ECON 2010 - Intro to Macroeconomics
  - Social/Behavioral Sciences (3) \*
  - Technical Elective (3)



Academic Year Total 31 hrs

Total Hours: 122

Total Hours Required for Graduation: 122

*\*Must satisfy University General Education Program Requirement*

## **Emergency Management, (B.P.S.)**

The interdisciplinary Emergency Management concentration is designed for students with a diversity of backgrounds and interest in applying that background to emergency management, community resilience to disaster, environmental hazards mitigation, emergency management response, and business continuity/disaster recovery. It will address the following critical knowledge elements: a) the physical and social dimensions of disasters through combining knowledge from various physical, social, and applied disciplines, b) the intersection of public policy to disaster risk, response, and mitigation, c) the intersection of the private, nonprofit, and governmental sectors and how this effects emergency preparedness, mitigation, and recovery, d) sustainable development, planning for and response to extreme events and change in our physical and human landscapes; and e) communication dynamics and persuasive communication in emergencies.

## **General Education (35-41 hours)**

Students must complete the 35-41 hours of general education requirements as outlined in the attached general education grid. Please refer to the General Education website at <http://www.memphis.edu/ugcatalog/graduation/gened.ph> for specific requirements. Students with majors in University College are exempt from the History general education requirements if they completed one year of History in high school

## **Coordinated Study (33 hours)**

## **Professional Core (12 hours)**

- EMGT 3100 - Seminar in Emergency Management
- EMGT 4000 - Internship
- or
- CJUS 4100 - Ind Dir Studies
- or
- ESCI 4621 - Investigations In GEOG

## Two from the Following:

- PADM 3601 - Public Admin
- CJUS 4126 - CJUS Admin and Mgmt
- PADM 3611 - Disaster Planning/Control
- PADM 3615 - Community Risk Reduction
- ESCI 4261 - Plan Sustainable Cities/Region
- MGMT 3110 - Organization and Mgmt
  - MKTG 3130 - Strategic Management

## Hazard/Risk Management (9 hours)

- ESCI 4251 - Environmental Hazards
- CJUS 4190 - Terrorism Soc/Legl Prsp
- ESCI 3131 - Severe Weather
  - ARCH 4551 - Site and Environmental Planning
- COMM 4211 - Special Topics In Communication Studies

## Human Systems (9 hours)

- ANTH 4510 - Health/Culture/Environ Justice
- ANTH 4511 - Medical Anthropology
- COMM 3322 - Theories of Persuasion
- COMM 4410 - Conflict Resolution and Negot
- or
- COMM 4380 - Communication and Conflict
- SOCI 3401 - Social Inequality
- SOCI 3701 - Individual and Society
- PADM 4221 - Issues/Urban Admin
- PADM 4207 - Health Politics/Policy

## Analysis (3 hours)

- CJUS 3129 - Statistical Methods/CJUS
- ESCI 4521 - Quantitative Methods
- ESCI 4525 - Adv Geographic Info Science
- PADM 4101 - Political Statistics
- POLS 4101 - Political Statistics
- SOCI 3311 - Social Statistics

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (Completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Engineering Technology, (B.S.E.T.)

### University General Education Program (42 hours)

See Graduation from the University link for University General Education Program requirements. Note the following are specified by the department for this program:

### Mathematics

- MATH 1910 - Calculus I

### Natural Science

- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II

### College and Degree Requirements (52 hours)

### Engineering Technology Core

- ENGL 3603 - Engineering Communications
- CHEM 1010 - Chemistry of Materials
- CHEM 1011 - Chemistry of Materials Lab
- MATH 1730 - Pre-Calculus

Or

- ENGR 1009 - Prep Math for Engineering
- TECH 1010 - Computer Applications in Tech
- TECH 1211 - Computer Programming
- TECH 1411 - Introduction to Technology
- TECH 1521 - Graphics/Descriptive Geometry
- TECH 1711 - Manufacturing Process I
- TECH 1811 - Electronic Circuit Technology
- TECH 2821 - Solid State Technology
- TECH 2822 - Circuit Analysis
- TECH 3044 - Analysis for Engineering Tech
- TECH 3440 - Project Plan/Cost Evaluation
- TECH 4381 - Principles of Supervision
- TECH 4401 - Science/Technology/Society
- TECH 4462 - Quality Improvement
- TECH 4943 - Senior Project Plan Seminar
- TECH 4945 - Senior Project

## The Major (31-33 hours)

Completion of 31-33 hours of technical electives that include a minimum of two (2) of the following fields of study selected in consultation with an academic advisor:

### Automation & Control Systems

- TECH 2831 - Advanced Solid State Tech
- TECH 3821 - Industrial Electronics
- TECH 3822 - Programmable Logic Control
- TECH 4474 - Automation and Robotics
- TECH 3841 - Electrical Power/Motor Control

or

- TECH 4823 - Adv Programmable Logic Control

### Electronic Communication Systems

- TECH 2831 - Advanced Solid State Tech
- TECH 3811 - Electronic Communication
- TECH 3812 - Adv Electronic Comm Technology
- TECH 4821 - Microwave Technology

### Mechanical Systems Design

- TECH 3401 - Strength of Materials
- TECH 3421 - Manufacturing Process II
- TECH 3573 - Dynamics/Design/Automation
- TECH 4472 - Computer Aided Design

- TECH 4571 - Tool Design

## Microprocessor Systems

- TECH 2831 - Advanced Solid State Tech
- TECH 3232 - Digital Technology
- TECH 3233 - Microprocessor Technology
- TECH 4234 - Microproc Interface Technology

## Operations Strategy & Lean Principles

- TECH 4460 - Work Design/Improvement
- TECH 4464 - Production Control Systems
- TECH 4466 - Facility Design

## Product Realization

- TECH 3401 - Strength of Materials
- TECH 3421 - Manufacturing Process II
- TECH 4472 - Computer Aided Design
- TECH 4474 - Automation and Robotics
- TECH 4476 - Computer Aided Manufacturing

## Software Design

- TECH 2251 - Adv Programming Technology
- TECH 2261 - Data Structures
- TECH 4262 - Modern Programming
- TECH 4263 - Server Application Technology

## System/Network Administration

- TECH 3232 - Digital Technology
- TECH 3241 - Internet Technology
- TECH 4281 - Computer Network Technology
- TECH 4272 - Operating Systems

## Note

The core requirements satisfy prerequisites for these fields of study. Observe prerequisites when enrolling in courses within a particular field of study. NOTE: Substitutions must be approved by the Undergraduate Program Coordinator.

## Typical 4-Year Engineering Technology Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1730 - Pre-Calculus

or

- ENGR 1009 - Prep Math for Engineering
- TECH 1411 - Introduction to Technology
- TECH 1711 - Manufacturing Process I
- TECH 1010 - Computer Applications in Tech
- ENGL 1020 - English Comp/Analysis
- MATH 1910 - Calculus I
- TECH 1211 - Computer Programming
- TECH 1521 - Graphics/Descriptive Geometry
- TECH 1811 - Electronic Circuit Technology

Semester Totals 30 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
  - History (3) \*
- TECH 2821 - Solid State Technology
- TECH 2822 - Circuit Analysis
- COMM 2381 - Oral Communication
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II
- CHEM 1010 - Chemistry of Materials
- CHEM 1011 - Chemistry of Materials Lab
- TECH 3044 - Analysis for Engineering Tech
  - Technical elective (3)

Semester Totals 35 hrs

## Junior Year

- Humanities (3) \*
- History (3) \*
- ENGL 3603 - Engineering Communications
  - Technical Elective (3)
  - Technical Elective (3)
  - Social/Behavioral Sciences (3) \*
  - Technical elective (3)
  - Technical elective (3)
- TECH 4462 - Quality Improvement
- TECH 3440 - Project Plan/Cost Evaluation
- TECH 4381 - Principles of Supervision

Semester Totals 33 hrs

## Senior Year

- Social/Behavioral Sciences (3)
- Technical Elective (3-4)
- Technical elective
- Technical Elective (3)
- TECH 4401 - Science/Technology/Society
- TECH 4943 - Senior Project Plan Seminar
  - Humanities (3) \*
  - Technical elective (3-4)
  - Technical elective (3)
  - Technical elective (3)
- TECH 4945 - Senior Project

Semester Totals 39-31 hrs

Total Hours: 125-128

Total Hours Required for Graduation: 125-128

*\*Must satisfy University General Education Program Requirements*

## **English, (B.A.)**

Program objectives for a B.A. in English are: (a) to develop skills in critical thinking, reading, and writing; (b) to have opportunities to consider the relationships among language, literature, culture, and writing; (c) to concentrate study of these interrelated areas in one of six endeavors, each with its own particular focus: African American literature, applied linguistics, creative writing, English as a second language, literature, and professional writing.

## University General Education Program (41 Hours)

See Graduation from the University for the University General Education Program requirements. English majors take ENGL 1010, ENGL 1020, and ENGL 2201 or ENGL 2202 to complete General Education Program Requirements and English Major requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## The Major (33 hours)

ENGL 1010, 1020, and 2201 or 2202 or equivalents with a minimum grade of "C" are prerequisites for all upper division (3000 and 4000-level) courses in the Department of English.

### Major Core (12 Hours)

- ENGL 3210 - British Lit to 1750
- ENGL 3220 - British Lit since 1750
- ENGL 3327 - American Literature to 1865

### One Course from

Note: Creative Writing Concentration must select ENGL 4599, 4604, or 4605. Professional Writing Concentration must select ENGL 3604 or ENGL 4602.

- ENGL 3501 - Modern English Grammar
- ENGL 3511 - Intro to Linguistics
- ENGL 3604 - Persuasive Writing
- ENGL 3701 - Lit Criticism/Theory
- ENGL 4501 - History of English Lang
- ENGL 4599 - Forms of Creative Nonfiction
- ENGL 4602 - Adv Composition
- ENGL 4604 - Forms of Poetry
- ENGL 4605 - Forms of Fiction



## Concentration (12 hours)

A concentration must be chosen from:

English - African-American Literature Concentration, (B.A.)

English - Professional Writing Concentration, (B.A.)

English - Creative Writing Concentration, (B.A.)

English - Language and Linguistics Concentration, (B.A.)

English - Literature Concentration, (B.A.)

English - English as a Second Language Concentration, (B.A.)

## Electives (9 hours)

Nine hours of upper-division ENGL courses.

## Note the Following:

1. Students should see the English advisor who will explain the advantages of the various concentrations and assist students in developing an appropriate program of study.
2. Courses taken to satisfy the core requirements may not be used to satisfy concentration requirements.
3. No more than a total of six (6) hours in ENGL 3100-ENGL 3109, ENGL 4101-ENGL 4109, and 3 hours in ENGL 4900 may be applied to the English major.
4. Students who wish to satisfy the requirements for both the English major and the endorsement to teach English in high school should consult the College of Education for licensure requirements.
5. ENGL 3500 and ENGL 3603 may not be used to satisfy any requirement for the English major.
6. ENGL 4900 and ENGL 4996 may not be used to satisfy required hours in any concentration.

## Honors Program

Honors sections of the required English courses on the freshman and sophomore levels (ENGL 1010, ENGL 1020, ENGL 2201, ENGL 2202) are offered through the University Honors program and are open to qualified students regardless of their major. On the junior and senior level, the Department of English offers an honors track open only to English majors, who are eligible to apply for admission to the program if they have a grade point average of 3.25 in their overall studies and in English. Honors students take special courses during their junior and senior years and write a senior honors thesis. Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in English." Moreover, the student's diploma and the record at the University of Memphis will reflect this distinction. Details of the program are available at the Department of English office.

## Typical 4-Year English Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities (3) \*
  - MATH (3-4) \*
  - Foreign Language/B.A. (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Fine Arts (3) \*
  - Foreign Language/B.A. (3)
  - Elective (3)

Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - History (3) \*
  - Elective (3)
  - Natural Science (4) \*
- COMM 2381 - Oral Communication
- ENGL 3210 - British Lit to 1750
  - History (3) \*
  - Elective (3)
  - Natural Science (4) \*
  - ENGL Core Elective (3)

Semester Totals 32 hrs

### Junior Year

- ENGL 3220 - British Lit since 1750
  - ENGL concentration (3)
  - Social/Behavioral Science (3) \*
  - Elective (3)
  - Elective (3)
- ENGL 3327 - American Literature to 1865
  - ENGL concentration (3)

- Social/Behavioral Science (3) \*
- Elective (3)
- UD ENGL elective (3)

Semester Totals 30 hrs

## Senior Year

- UD ENGL elective (3)
- ENGL concentration (3)
- UD elective (3)
- UD elective (3)
- Elective (3)

- UD ENGL elective (3)
- ENGL concentration (3)
- UD elective (3)
- Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Fashion Design, (B.P.S)

The Fashion Design program prepares students for careers in Fashion Design for the Apparel Industry. The curriculum fosters creative expression in all aspects of Fashion Design, including fashion sketching, creative design, computer applications, draping, and pattern drafting. With this, students learn to balance hand-making and digital skills with an integrated approach to design. The program is structured to challenge and inspire students by incorporating artistic, technical, and theoretical elements into a realistic approach to the Fashion Design Industry.

## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Visual Merchandising and Design Core (12 hours)

- MRCH 2000 - Visual Imaging for Fashion and Merchandising
- MRCH 2010 - Textiles
- MRCH 3215 - Textiles Applications
- MRCH 3000 - Color and Basic Design Studies and Applications

## Fashion Design Concentration (24 hours)

- MRCH 2005 - Intro to the Fashion Industry
- MRCH 2200 - Fashion Sketching and Illustration for Design
- MRCH 3075 - Basic Industry Sewing and Construction
- MRCH 3100 - Pattern Drafting I
- MRCH 3300 - Draping Techniques
- MRCH 3400 - Computer Aided Fashion Drawing and Design
- MRCH 3450 - Computer Patternmaking
- MRCH 4000 - Advanced Sewing Techniques
- MRCH 4400 - Pattern Drafting II
- MRCH 4500 - Advanced Computer Patternmaking
- MRCH 4550 - Fit Analysis
- MRCH 4575 - Sourcing and Technical Design

## Guided Electives (18 hours)

Choose any remaining courses not taken from Fashion Design Concentration or appropriate upper division courses from Art, Theater, etc. Courses from other departments should be discussed with your advisor/program coordinator before registering to determine appropriateness.

## Senior Year Requirements (6 hours)

The senior collection is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior collection is intended to fuse all the academic areas that comprise the student's understanding of developing a fashion collection into a relevant example of scholarship to be showcased down the runway. Students will complete a collection of their choice with approval of their senior collection instructor. The senior collection is completed during a student's final semester.

- MRCH 4600 - Senior Seminar
- UNIV 4110 - Internship

## Thematic Studies (6 hours)

University College thematic studies course(s) are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Review a complete list of courses: [http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

- MRCH 4205 - Behavioral Sci Aspects Clothng
- MRCH 3050 - Costume History

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Electives (10-16 hours)

Electives will be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Minimum Requirements for Graduation

- Students must complete at least 60 hours from a 4-year institution.
- Students must complete at least 42 hours of upper-division credit (3000 or 4000-level).
- Students must complete at least 30 of the last 60 hours through the University of Memphis.
- Students must complete at least 9 graded hours in the major at the University of Memphis.

## Fashion Merchandising (B.P.S.)

Industry overview, financial planning and purchasing, visual presentation, color selection and coordination, textile identification, clothing characteristics, entrepreneurship and personal and professional development are all program components in this concentration.

## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Visual Merchandising and Design Core (12 hours)

- MRCH 2000 - Visual Imaging for Fashion and Merchandising

- MRCH 2010 - Textiles
- MRCH 3215 - Textiles Applications
- MRCH 3000 - Color and Basic Design Studies and Applications

## Fashion Merchandising Concentration (24 hours)

- MRCH 2004 - Tech Skills for Merchandising
- MRCH 2005 - Intro to the Fashion Industry
- MRCH 2106 - 3D Visual Merchandising
- MRCH 3206 - Merchandising Systems
- MRCH 3600 - Consumer Engagement in the Digital Era
- MRCH 3650 - Merchandise Buying
- MRCH 4560 - Trend Analysis and Styling Concepts
- MRCH 4575 - Sourcing and Technical Design

## Approved Minor (18 hours)

MKTG 3010 and MKTG 3140 plus 12 additional hours in Marketing for the Marketing Management Minor.

## Senior Year Requirements (6 hours)

The senior collection is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior collection is intended to fuse all the academic areas that comprise the student's understanding of developing a fashion collection into a relevant example of scholarship to be showcased down the runway. Students will complete a collection of their choice with approval of their senior collection instructor. The senior collection is completed during a student's final semester.

- MRCH 4600 - Senior Seminar
- UNIV 4110 - Internship

## Thematic Studies (6 hours)

University College thematic studies course(s) are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Review a complete list of courses: [http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

- MRCH 4205 - Behavioral Sci Aspects Clothng
- MRCH 3050 - Costume History

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper division hours.

## Minimum Requirements for Graduation

- Students must complete at least 60 hours from a 4-year institution.
- Students must complete at least 42 hours of upper-division credit (3000 or 4000-level).
- Students must complete at least 30 of the last 60 hours through the University of Memphis.
- Students must complete at least 9 graded hours in the major at the University of Memphis.

## Film and Video Production Concentration, Communication (B.A.)

### Communication Major (B.A.)

The program objectives for a B.A. in Communication are linked to five key areas:

1. **Performance:** Students will demonstrate competence in producing messages for different purposes, audiences, and contexts.
2. **Analysis and Critical Thinking:** Students will analyze, interpret and evaluate messages across various forms and contexts.
3. **Knowledge:** Students will know the development of communication studies from its rhetorical roots through social scientific perspectives to contemporary critical approaches.
4. **Ethics:** Students will articulate ethical principles and apply them in diverse communication contexts.
5. **Mediated Communication:** Students will understand the impact of media forms on communication processes.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### Bachelor of Arts (B.A.) (6-9 hours)

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

## The Major (33-37 hours)

### Major Core (6 hours)

All students must take

- COMM 2100 - Communication Inquiry
- COMM 2381 - Oral Communication (included in the University General Education Program)

### Note

A 2.0 cumulative GPA is required for all courses completed in the major. In addition, all students must fulfill the requirements for the following concentration:

### Film and Video Production (27-29 hours):

- COMM 3823 - Motion Picture Prod I
- COMM 3824 - Motion Picture Prod II
- COMM 3842 - TV Studio Production I

### Three Production or Writing courses:

- COMM 4822 - Audio Production Film/Video
- COMM 4824 - Cinema/Videography
- COMM 4825 - Editing/Post Production
- COMM 4841 - Television Workshop
- COMM 4842 - TV Studio Production II
- COMM 4891 - Producing/Directing Film/Video
- COMM 4960 - Documentary Writing
- COMM 4970 - Screenwriting

### Two Film Studies courses

(Selection may not include course used to satisfy core)

- COMM 3003 - Television and Culture
- COMM 4220 - Special Topics in Film
- COMM 4221 - Special Topics in Film
- COMM 4222 - Special Topics in Film
- COMM 4223 - Special Topics in Film
- COMM 4224 - Special Topics in Film
- COMM 4225 - Special Topics in Film
- COMM 4226 - Special Topics in Film



- COMM 4227 - Special Topics in Film
- COMM 4228 - Special Topics in Film
- COMM 4229 - Special Topics in Film
- COMM 4850 - Film History I
- COMM 4851 - Film History II
- COMM 4853 - Documentary Form Film
- COMM 4854 - Documentary Form Broadcasting
- COMM 4856 - Gender and Film
- COMM 4858 - Contemporary Cinema
- COMM 4859 - Monster Films
- COMM 4860 - Reality TV

## Electives (12 - 20 hours)

Completion of courses to bring the total to 120 semester hours.

## Honors Program

To be eligible for admission to the Communication Honors program a student must meet the following requirements: (1) declare a major in Communication, (2) have completed 12 hours of Communication coursework, (3) have Department of Communication faculty member as an adviser, and (4) make an honors application to the adviser. Applications may be obtained from the director of the honors program or from the department office.

To be awarded departmental honors at graduation with the designation "With Honors in Communication," a student must fulfill the following requirements: (1) maintain a 3.5 GPA in communication coursework, (2) maintain a 3.5 GPA overall, (3) complete all Department of Communication major requirements, (4) complete an independent thesis or an independent film/video project sponsored by a Department of Communication faculty member consisting of six hours over two semesters: three hours in research preparation (COMM 3330, COMM 4381, or COMM 4891), and three hours in completing the thesis project (COMM 4999), and (5) successful defense of the thesis.

## Typical 4-Year Film and Video Production Concentration Sequence

### Freshman Year

- COMM 1851 - Introduction to Film
- ENGL 1010 - English Composition
  - Math (3)
  - Foreign Language/B.A. (or elective)\*\* (3)
  - Natural Science (4)\*
- COMM 2100 - Communication Inquiry
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Science\* (3)
  - Foreign Language/B.A. (or elective)\*\* (3)

Natural Science (4)\*

## Semester Totals 32-33 hrs

### Sophomore Year

- COMM 3823 - Motion Picture Prod I
  - Foreign Language/B.A. (3)
  - Social/Behavioral Science (3)\*
  - History\* (3)
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 3824 - Motion Picture Prod II
  - COMM Film Studies Course (3)
  - Foreign Language/B.A. (3)
  - Humanities (3)\*
  - History\* (3)

## Semester Totals 32 hrs

### Junior Year

- COMM 2381 - Oral Communication
- COMM 3842 - TV Studio Production I
  - Elective (3)
  - UD elective (3)

UD elective (3)

COMM Production/Writing Course (3)

COMM Film Studies Course

UD elective (3)

UD elective (3)

Elective (3)

## Semester Totals 31 hrs

### Senior Year

- COMM Production/Writing Course (3)

- UD COMM elective (3)
- UD Elective (3)
- Elective (3)

- COMM Production/Writing Course (3)
- UD COMM elective (3)
- Elective (3)
- Elective (3)

Semester Totals 25 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\* Must satisfy University General Education Program Requirement

\*\*Students presenting a language to meet University admission requirements cannot receive credit for 1010 in that language.

## **Finance - Banking and Financial Services Concentration, (B.B.A.)**

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

### Core requirements:

A minimum of 24 upper division semester hours in courses as follows:

- FIR 3710 - Investments
- FIR 3720 - Financial Markets

### Banking and Financial Services (18 hours):

- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions

## 12 Hours From

Choose one course from the following:

- FIR 4331 - Stock Portfolio Mgmt
- FIR 4620 - Cases in Financial Planning
- FIR 4730 - Financial Analysis/Certification

Choose three courses from the following:

- ACCT 3510 - Federal Income Tax I
- ECON 3610 - Money and Banking
- FIR 3310 - Real Estate Principles
- FIR 3810 - Principles of Risk/Insurance
- FIR 4011 - Retirement and Estate Planning
- FIR 4310 - Real Estate Law
- FIR 4320 - Real Estate Finance
- FIR 4350 - Real Estate Investment
- FIR 4440 - Intermediate Managerial Finance
- FIR 4610 - Cases Managerial Finance
- FIR 4810 - Property & Liability Insurance I
- FIR 4870 - Risk Management
- FIR 4911 - Internship in Finance, Insurance, and Real Estate

## Note

A FIR 4911 internship with a financial institution is highly recommended.

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Banking and Financial Services Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- FIR 1220 - Personal Financial Management

or

- Elective (3)
  - Humanities/Fine Arts (3) \*
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - Humanities/Fine Arts (3) \*
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1421 - Honors Calculus I
  
- or
  
- MATH 1910 - Calculus I

Semester Totals 28-30 hrs

## Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage \*
  
- or
  
- ENGL 2202 - Lit Heritage: African-American \*
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
- SCMS 2710 - Business Analytics -Statistics
  
- or
  
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
  - History (3) \*
  - Elective (3)
- ECON 2010 - Intro to Macroeconomics

Semester Totals 32 hrs

## Junior Year

- FIR 3410 - Financial Management
- MIS 3210 - Critical Thinking Using Analytics
- SCMS 3711 - Business Analytics - Tools

- MGMT 3510 - Business Communications
- ACCT 3130 - Legal/Social/Political Environ
  
- FIR 3710 - Investments
- FIR 3720 - Financial Markets
- SCMS 3510 - Operations Management
  - FIR elective (3)
- MGMT 3110 - Organization and Mgmt

Semester Totals 30 hrs

## Senior Year

- FIR 4331 - Stock Portfolio Mgmt
  - OR
- FIR 4620 - Cases in Financial Planning
  - OR
- FIR 4730 - Financial Analysis/Certification
- FIR 4710 - Commercial Banking
  - History (3)\*
- MKTG 3010 - Principles of Marketing
  - International Business elective (3)
- FIR 4720 - Management of Financial Institutions
- MGMT 4710 - Strategic Management
  
- Major elective (3)
- Major elective (3)
- Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Finance - Business Finance Concentration, (B.B.A.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

### Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy



- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

### Core requirements:

A minimum of 24 upper division semester hours in courses as follows:

- FIR 3710 - Investments
- FIR 3720 - Financial Markets

### Business Finance (18 hours):

- FIR 4440 - Intermediate Managerial Finance
- FIR 4610 - Cases Managerial Finance

Choose 4 courses from the following:

- FIR 3310 - Real Estate Principles
- FIR 4011 - Retirement and Estate Planning
- FIR 4310 - Real Estate Law
- FIR 4320 - Real Estate Finance
- FIR 4331 - Stock Portfolio Mgmt
- FIR 4340 - Real Estate Appraisal
- FIR 4350 - Real Estate Investment
- FIR 4550 - International Finance
- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions
- FIR 4721 - Financial Derivative Markets
- FIR 4730 - Financial Analysis/Certification
- FIR 4770 - Security Analysis/Portfolio Management
- FIR 4870 - Risk Management
- FIR 4911 - Internship in Finance, Insurance, and Real Estate
- ECON 4112 - Organizational Econ
- ECON 4120 - Economic Forecasting
- MIS 3775 - Database/Information Management

### Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Business Finance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
- FIR 1220 - Personal Financial Management
- or
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - History (3) \*
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems
- MATH 1830 - Elementary Calculus
- or
  - MATH 1421 - Honors Calculus I
- or
  - MATH 1910 - Calculus I

Semester Totals 28-30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage \*
- or
  - ENGL 2202 - Lit Heritage: African-American \*
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
  - MATH 1530 - Prob/Statistics/Non Calculus

- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
  - History (3) \*
  - Elective (3)
  - Humanities/Fine Arts (3) \*

Semester Totals 32 hrs

## Junior Year

- FIR 3410 - Financial Management
- MIS 3210 - Critical Thinking Using Analytics
- SCMS 3711 - Business Analytics - Tools
- MGMT 3510 - Business Communications
- ACCT 3130 - Legal/Social/Political Environ
  
- FIR 3710 - Investments
- FIR 3720 - Financial Markets
- SCMS 3510 - Operations Management
  - FIR elective (3)
- MGMT 3110 - Organization and Mgmt

Semester Totals 30 hrs

## Senior Year

- FIR 4440 - Intermediate Managerial Finance
  - FIR elective (3)
  - FIR elective (3)
- MKTG 3010 - Principles of Marketing
  - Elective (3)
- FIR 4610 - Cases Managerial Finance
  - FIR elective (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Finance - Real Estate Concentration, (B.B.A.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

### Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

### Core requirements:

A minimum of 24 upper division semester hours in courses as follows:

- FIR 3710 - Investments
- FIR 3720 - Financial Markets

### Real Estate (18 hours):

- FIR 3310 - Real Estate Principles
- FIR 4320 - Real Estate Finance
- FIR 4350 - Real Estate Investment

Choose 3 courses from the following:

- FIR 4310 - Real Estate Law
- FIR 4340 - Real Estate Appraisal
- FIR 4440 - Intermediate Managerial Finance
- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions
- FIR 4911 - Internship in Finance, Insurance, and Real Estate
- ECON 4112 - Organizational Econ
- ESCI 4515 - Geographic Info Science

### Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Real Estate Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities/Fine Arts (3) \*
- FIR 1220 - Personal Financial Management

or

- Elective (3)
- MATH 1710 - College Algebra (if needed)
- MIS 2749 - Foundation/Information Systems
- ENGL 1020 - English Comp/Analysis
  - History (3) \*
- ECON 2010 - Intro to Macroeconomics

Humanities/Fine Arts (3) \*

- MATH 1830 - Elementary Calculus

or

- MATH 1421 - Honors Calculus I

or

- MATH 1910 - Calculus I

Semester Totals 30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
  - ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
  - Natural Science (4) \*
  - COMM 2381 - Oral Communication
  - SCMS 2710 - Business Analytics -Statistics

or

- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - History (3) \*
  - Natural Science (4) \*

- ECON 2020 - Intro to Microeconomics
  - Elective (1-3)

Semester Totals 30-32 hrs

## Junior Year

- FIR 3410 - Financial Management
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
- MIS 3210 - Critical Thinking Using Analytics
- MGMT 3110 - Organization and Mgmt
  - FIR elective (3)
- FIR 3720 - Financial Markets
- SCMS 3510 - Operations Management
- MGMT 3510 - Business Communications
- FIR 3310 - Real Estate Principles

Semester Totals 30 hrs

## Senior Year

- FIR 3710 - Investments
- FIR 4320 - Real Estate Finance
  - FIR elective (3)
  - FIR elective (3)
  - Elective (3)
- MKTG 3010 - Principles of Marketing
- FIR 4350 - Real Estate Investment
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Health Services (B.P.S.)

Students following guidelines for [Health Services](#) are interested in the helping professions. This curriculum will prepare students for a wide range of health care positions in hospitals, health departments, health agencies, research facilities, schools and industry. This program is also for experienced health care professionals who have completed non-baccalaureate programs in health care specialties such as medical laboratory technology, respiratory therapy, radiological technology, and nursing who will build upon their training and experience by taking courses in such areas

## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Professional Core (30 hrs)

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II

Take one:

- MGMT 3110 - Organization and Mgmt
- HCL 3000 - Healthcare Leadership
- HETH 4211 - Comm Healthcare Lead/Mgmt

Human Resources Management (Take 1)

- MGMT 3215 - Management of Human Resources
- HCL 4030 - Healthcare Human Resources

Financial (Take 1)

- FIR 3410 - Financial Management
- MRCH 4300 - Family Resource Management
- HCL 3010 - Healthcare Financial Mgmt

Professional Writing (Take 1)

- ENGL 3601 - Technical and Profess Writing
- PBRL 3421 - Public Relations Writing
- MGMT 3510 - Business Communications
- HCL 3050 - Prof Writing Healthcare

Research Methods (Take 1)

- SOCI 3311 - Social Statistics
- HCL 4010 - Healthcare Stats/Research
- HETH 4210 - Healthcare Research Methods

Health Communication (Take 1)

- COMM 3012 - Health Communication
- HCL 3020 - Healthcare Informatics
  - COMM 4211 - Public Health Campaigns

Policy and Social Context (Take 1)



- HCL 4000 - Health Policy Issues
- HETH 4212 - Trends/Issues in Healthcare
- HLSC 4530 - Epidemiology
- HCL 4020 - Law/Ethics of Healthcare
- PADM 4226 - Intro Nonprofit Organizations

#### Health Care Systems (Take 1)

- HCL 3040 - U S Health System
- HETH 4213 - Community Health/Iss/Serv
- HLSC 2200 - Introduction to Public Health/Health Studies

## Health Care Specialty Guided Elective (18 hrs)

(Choose 6 courses or any courses from above not used; MUST have 12 hours of upper division courses from this section)

- COBH 4707 - International Health/Prob/Iss
- CDFS 2101 - Family/Global Perspective
- HCL 3020 - Healthcare Informatics
- HCL 3040 - U S Health System
- HCL 4020 - Law/Ethics of Healthcare
- HCL 4040 - Business Principles/Healthcare
- HMSE 2102 - First Aid and CPR
- HLSC 2100 - Wellness Concepts Practice
- HLSC 2200 - Introduction to Public Health/Health Studies
- PHIL 3514 - Biomedical Ethics
- NUTR 2202 - Nutrition
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 3512 - Health Psychology
- SOCI 4442 - Sociology of Poverty
- SOCI 4851 - Medical Sociology
- SW 3170 - Family Caregiving
- UNIV 4110 - Internship

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Electives (22-28 hrs)

Electives may be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Experiential Learning Credit

Experiential Learning Credit may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or noncollege instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area. Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures described above. More detailed information about procedures may be obtained from the individual colleges.

## Health Studies - Dietetics Concentration, (B.S.)

### Health Studies (B.S.)

Program objectives for a B.S. in Health Studies are: (a) to demonstrate critical thinking skills, specifically in the areas of evaluating evidence and understanding sources; (b) to demonstrate proficiency in written and oral communication and computer utilization; (c) to use knowledge of functional anatomy and biomechanics to analyze and evaluate movement and to prescribe exercises to prevent injuries and enhance performance; (d) to recognize risk factors (i.e., cardiovascular, metabolic, musculoskeletal) and their relationship to physical activity, nutrition and other lifestyle behaviors; identify risk factors, which may require consultation with medical or allied health professionals (e) to demonstrate an understanding of principles and research-based guidelines for nutrition, body composition, and weight management when analyzing current status and prescribing desirable changes; (f) to demonstrate understanding of the basic principles of program planning, management, evaluation, and administration of health and wellness programs and facilities; (g) to be able to formulate research questions, collect and analyze data, and make appropriate conclusions based on data results.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### NOTE:

Students in the Dietetics Concentration will take CHEM 1110 CHEM 1111 CHEM 1120 CHEM 1121 to complete General Education Natural Science.

## The Major (11 hours)

- BIOL 2010 - Anatomy/Physiology I
- BIOL 2011 - Anat/Physiology I Lab

- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab
- NUTR 2202 - Nutrition

## Dietetics (53 hours):

- NUTR 2102 - Intro to Dietetics
- NUTR 2302 - Introduction to Foods
- NUTR 2303 - Intro to Foods Laboratory
- NUTR 3002 - Advanced Human Metabolism I
- NUTR 3502 - Adv Foods/Food Systems
- NUTR 4102 - Medical Nutrition Therapy I
- NUTR 4112 - Medical Nutrition Therapy II
- NUTR 4602 - Community Nutrition
- NUTR 4605 - Internship in Nutrition
- NUTR 4802 - Experimental Foods
- NUTR 4803 - Experimental Foods Laboratory
- NUTR 4812 - Adv Human Metabolism II
- NUTR 4000 - Senior Seminar in Dietetics
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- ESMS 3700 - Exercise Physiology Introduction
- BIOL 1230 - Microbiology
- BIOL 1231 - Microbiology Lab
- ACCT 2010 - Fundamentals of Acct I
- MKTG 3010 - Principles of Marketing
- MGMT 3110 - Organization and Mgmt
- EDPR 4541 - Fundmntl/Applied Stat Method
- HMSE 2000 - Health/Sport Sc Terminology
- HMSE 4999 - Senior Project/HSS

## Electives (3-34 hours)

Selected in consultation with advisor to bring the total number of credit hours to 120. Guided Electives.

In some of the above courses, variable hours of supervised laboratory/field experience will be required.

## Typical 4-Year Dietetics Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3) \*
  - History (3) \*
  - Humanities/Fine Arts (3) \*
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

- ENGL 1020 - English Comp/Analysis
  - Humanities/Fine Arts (3) \*
- PSYC 1030 - General Psychology
  - History (3) \*
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

Semester Totals 32 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- NUTR 2102 - Intro to Dietetics
- NUTR 2202 - Nutrition
- NUTR 2302 - Introduction to Foods
- NUTR 2303 - Intro to Foods Laboratory
- BIOL 2010 - Anatomy/Physiology I
- BIOL 2011 - Anat/Physiology I Lab
- COMM 2381 - Oral Communication
- SOCI 1010 - Introduction to Sociology
- ACCT 2010 - Fundamentals of Acct I
- HMSE 2000 - Health/Sport Sc Terminology
- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab

Semester Totals 31 hrs

## Junior Year

- BIOL 1230 - Microbiology
- BIOL 1231 - Microbiology Lab
- MKTG 3010 - Principles of Marketing
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
  - Elective (3)
- NUTR 3002 - Advanced Human Metabolism I
- NUTR 3502 - Adv Foods/Food Systems
- CHEM 3511 - Foundations/Bioorganic CHEM
- ESMS 3700 - Exercise Physiology Introduction
  - Elective (3)

Semester Totals 29 hrs

## Senior Year

- NUTR 4102 - Medical Nutrition Therapy I
- NUTR 4802 - Experimental Foods
- NUTR 4803 - Experimental Foods Laboratory
- NUTR 4812 - Adv Human Metabolism II
- MGMT 3110 - Organization and Mgmt
- NUTR 4000 - Senior Seminar in Dietetics
  
- NUTR 4112 - Medical Nutrition Therapy II
  - Elective (2)
- NUTR 4602 - Community Nutrition
- NUTR 4605 - Internship in Nutrition
- HMSE 4999 - Senior Project/HSS

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Health Studies - Exercise, Sport, & Movement Sciences Concentration, (B.S.)**

### **Health Studies (B.S.)**

Program objectives for a B.S. in Health Studies are: (a) to demonstrate critical thinking skills, specifically in the areas of evaluating evidence and understanding sources; (b) to demonstrate proficiency in written and oral communication and computer utilization; (c) to use knowledge of functional anatomy and biomechanics to analyze and evaluate movement and to prescribe exercises to prevent injuries and enhance performance; (d) to recognize risk factors (i.e., cardiovascular, metabolic, musculoskeletal) and their relationship to physical activity, nutrition and other lifestyle behaviors; identify risk factors, which may require consultation with medical or allied health professionals (e) to demonstrate an understanding of principles and research-based guidelines for nutrition, body composition, and weight management when analyzing current status and prescribing desirable changes; (f) to demonstrate understanding of the basic principles of program planning, management, evaluation, and administration of health and wellness programs and facilities; (g) to be able to formulate research questions, collect and analyze data, and make appropriate conclusions based on data results.

### **Note:**

Exercise, Sport, & Movement Science concentration may take any two of the the General Education natural sciences courses with lab in addition to BIOL 2010 and BIOL 2020 and labs.

## The Major (11 hours)

- BIOL 2010 - Anatomy/Physiology I
- BIOL 2011 - Anat/Physiology I Lab
- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab
- NUTR 2202 - Nutrition

## Exercise, Sport, & Movement Sciences (46 hours):

- HMSE 2000 - Health/Sport Sc Terminology
- ESMS 2004 - Intro to Exercise Science
- ESMS 2015 - Resistance/Aerobic Training Applications
- ESMS 3020 - Exercise and Sport Mechanics
- ESMS 3050 - Advanced Life Support Exercise, Conditioning, Testing
- ESMS 3410 - Anatomic Kinesiology I
- ESMS 3415 - Anatomic Kinesiology II
- ESMS 3450 - Psychological Aspects of Exercise
- ESMS 3603 - Exercise Physiology I
- ESMS 3703 - Exercise Physiology II
- ESMS 3803 - Motor Learning
- ESMS 4000 - Exercise Test Interpretation Lab
- ESMS 4015 - Exercise Programs for Special Populations
- ESMS 4603 - Adv Meth/Strength Condition
- HLSC 4400 - Statistics for Health Sciences
- ESMS 4605 - Internship in Exercise Sport and Movement Sciences

## Electives (3-34 hours)

Selected in consultation with advisor to bring the total number of credit hours to 120. Guided Electives.

In some of the above courses, variable hours of supervised laboratory/field experience will be required.

## Typical 4-Year Exercise, Sport, & Movement Sciences Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities/Fine Arts (3) \*
  - MATH (3) \*
  - Social/Behavioral Sciences (3) \*
  - Natural Sciences (4) \*
- ENGL 1020 - English Comp/Analysis

- History (3)\*
- Natural Sciences (4)\*
- Social/Behavioral Sciences (3)\*
- Humanities/Fine Arts (3)\*

## Semester Totals 32 hrs

## Sophomore Year

- History (3) \*
  - BIOL 2010 - Anatomy/Physiology I
  - BIOL 2011 - Anat/Physiology I Lab
  - ESMS 2004 - Intro to Exercise Science
  - ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - NUTR 2202 - Nutrition
  - BIOL 2020 - Anatomy/Physiology II
  - BIOL 2021 - Anat/Physiology II Lab
  - COMM 2381 - Oral Communication
    - Elective (3)
  - ESMS 2015 - Resistance/Aerobic Training Applications
  - HMSE 2000 - Health/Sport Sc Terminology

## Semester Totals 30 hrs

## Junior Year

- ESMS 3050 - Advanced Life Support Exercise, Conditioning, Testing
- ESMS 3410 - Anatomic Kinesiology I
- ESMS 3415 - Anatomic Kinesiology II
- ESMS 3703 - Exercise Physiology II
- ESMS 3803 - Motor Learning
  - Elective (3)
- ESMS 3450 - Psychological Aspects of Exercise
- ESMS 3603 - Exercis Physiology I
- ESMS 3020 - Exercise and Sport Mechanics
  - Elective (3)
  - Elective (4)

Semester Totals 31 hrs

Senior Year

- ESMS 4000 - Exercise Test Interpretation Lab
- ESMS 4015 - Exercise Programs for Special Populations
- ESMS 4603 - Adv Meth/Strength Condition
- HLSC 4400 - Statistics for Health Sciences
- ESMS 4605 - Internship in Exercise Sport and Movement Sciences (6)
  - Elective (3)
  - Elective (3)

Semester Totals 27 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Health Studies - Health Sciences Concentration, (B.S.)**

### **Health Studies (B.S.)**

Program objectives for a B.S. in Health Studies are: (a) to demonstrate critical thinking skills, specifically in the areas of evaluating evidence and understanding sources; (b) to demonstrate proficiency in written and oral communication and computer utilization; (c) to use knowledge of functional anatomy and biomechanics to analyze and evaluate movement and to prescribe exercises to prevent injuries and enhance performance; (d) to recognize risk factors (i.e., cardiovascular, metabolic, musculoskeletal) and their relationship to physical activity, nutrition and other lifestyle behaviors; identify risk factors, which may require consultation with medical or allied health professionals (e) to demonstrate an understanding of principles and research-based guidelines for nutrition, body composition, and weight management when analyzing current status and prescribing desirable changes; (f) to demonstrate understanding of the basic principles of program planning, management, evaluation, and administration of health and wellness programs and facilities; (g) to be able to formulate research questions, collect and analyze data, and make appropriate conclusions based on data results.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.



## Note:

Health Sciences concentration must take:

Social/Behavioral Science:

- PSYC 1030 - General Psychology

## The Major (11 hours)

- BIOL 2010 - Anatomy/Physiology I
- BIOL 2011 - Anat/Physiology I Lab
- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab
- NUTR 2202 - Nutrition

## Health Sciences (30 hours):

- HLSC 2100 - Wellness Concepts Practice
- HLSC 2200 - Introduction to Public Health/Health Studies
- HLSC 3505 - Prin/Health Fitness Instruc
- HLSC 3522 - Assessment and Program Evaluation in Health Sciences (HSCI)
- HLSC 3800 - Strategic Planning & Program Development
- HLSC 4500 - Project Management in Health Sciences
- HLSC 4520 - Health and Lifestyle Counseling
- HLSC 4530 - Epidemiology
- ESMS 2015 - Resistance/Aerobic Training Applications
- ESMS 3700 - Exercise Physiology Introduction

## Internship

A satisfactory grade (S) is required for completion of the Health Sciences internship requirement.

- HLSC 4605 - Internship in Health Sciences

## Electives (40 hours)

Selected in consultation with advisor to bring the total number of credit hours to 120. In some of the above courses, variable hours of supervised laboratory/field experience will be required.

## Typical 4-Year Health Sciences Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities (3) \*
  - MATH (3) \*
  - History (3) \*
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
- PSYC 1030 - General Psychology
- HLSC 2100 - Wellness Concepts Practice
  - Humanities (3)\*
  - Elective (3)

Semester Totals 30 hrs

### Sophomore Year

- History (3) \*
- BIOL 2010 - Anatomy/Physiology I
- BIOL 2011 - Anat/Physiology I Lab
  - Social/Behavioral Science
- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American
- NUTR 2202 - Nutrition
- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab
- COMM 2381 - Oral Communication
- ESMS 2015 - Resistance/Aerobic Training Applications
- HLSC 2200 - Introduction to Public Health/Health Studies
  - Elective (3)

Semester Totals 32 hrs

### Junior Year

- HLSC 3522 - Assessment and Program Evaluation in Health Sciences (HSCI)
- HLSC 3800 - Strategic Planning & Program Development
- HLSC 3505 - Prin/Health Fitness Instruc
  - Elective (3)
  - Elective (3)
- ESMS 3700 - Exercise Physiology Introduction
- HLSC 4520 - Health and Lifestyle Counseling
  - Elective (3)

- Elective (3)
- Elective (3)

Semester Totals 30 hrs

## Senior Year

- HLSC 4500 - Project Management in Health Sciences
- HLSC 4530 - Epidemiology
  - Elective (3)
  - Elective (3)

Elective (3)

- HLSC 4605 - Internship in Health Sciences
  - Elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\* Must show proof of current First Aid and CPR certification before Internship.

## Health Studies - Healthcare Leadership Concentration, (B.S.)

### Health Studies (B.S.)

Program objectives for a B.S. in Health Studies are: (a) to demonstrate critical thinking skills, specifically in the areas of evaluating evidence and understanding sources; (b) to demonstrate proficiency in written and oral communication and computer utilization; (c) to use knowledge of functional anatomy and biomechanics to analyze and evaluate movement and to prescribe exercises to prevent injuries and enhance performance; (d) to recognize risk factors (i.e., cardiovascular, metabolic, musculoskeletal) and their relationship to physical activity, nutrition and other lifestyle behaviors; identify risk factors, which may require consultation with medical or allied health professionals (e) to demonstrate an understanding of principles and research-based guidelines for nutrition, body composition, and weight management when analyzing current status and prescribing desirable changes; (f) to demonstrate understanding of the basic principles of program planning, management, evaluation, and administration of health and wellness programs and facilities; (g) to be able to formulate research questions, collect and analyze data, and make appropriate conclusions based on data results.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## The Major (11 hours)

- BIOL 2010 - Anatomy/Physiology I
- BIOL 2011 - Anat/Physiology I Lab
- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab
- NUTR 2202 - Nutrition

## Healthcare Leadership (45 hours):

- COMM 3012 - Health Communication
- HCL 3000 - Healthcare Leadership
- HCL 3010 - Healthcare Financial Mgmt
- HCL 3020 - Healthcare Informatics
- HCL 3030 - Healthcare Strategic Plan/Mktg
- HCL 3040 - U S Health System
- HCL 3050 - Prof Writing Healthcare
- HCL 4000 - Health Policy Issues
- HCL 4010 - Healthcare Stats/Research
- HCL 4020 - Law/Ethics of Healthcare
- HCL 4030 - Healthcare Human Resources
- HCL 4040 - Business Principles/Healthcare
- HLSC 4530 - Epidemiology
- HCL 4605 - Internship in Healthcare Leadership

## Electives (3-34 hours)

Selected in consultation with advisor to bring the total number of credit hours to 120. Guided Electives.

In some of the above courses, variable hours of supervised laboratory/field experience will be required.

## Typical 4-Year Healthcare Leadership Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3) \*

- Humanities/Fine Arts (3) \*
- Social/Behavioral Sciences (3) \*
- Elective (3)
- ENGL 1020 - English Comp/Analysis
  - Humanities/Fine Arts (3) \*
- NUTR 2202 - Nutrition
  - Elective (3)
  - Elective (2)

Semester Totals 29 hrs

## Sophomore Year

- BIOL 2010 - Anatomy/Physiology I
  - BIOL 2011 - Anat/Physiology I Lab
    - Elective (2)
    - HIST (3) \*
    - Social/Behavioral Sciences (3) \*
  - ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - BIOL 2020 - Anatomy/Physiology II
  - BIOL 2021 - Anat/Physiology II Lab
    - HIST (3) \*
    - Elective (3)
    - Elective (3)
  - COMM 2381 - Oral Communication

Semester Totals 32 hrs

## Junior Year

- HCL 3000 - Healthcare Leadership
- HCL 3030 - Healthcare Strategic Plan/Mktg
- HCL 3040 - U S Health System
- HCL 3050 - Prof Writing Healthcare
  - Elective (3)
- HCL 3010 - Healthcare Financial Mgmt
- HCL 3020 - Healthcare Informatics
- HCL 4000 - Health Policy Issues
- HCL 4020 - Law/Ethics of Healthcare
- HCL 4030 - Healthcare Human Resources

Semester Totals 30 hrs

## Senior Year

- HCL 4010 - Healthcare Stats/Research
- HCL 4040 - Business Principles/Healthcare
- HLSC 4530 - Epidemiology
- COMM 3012 - Health Communication
  - Elective (3)
  
- HCL 4605 - Internship in Healthcare Leadership
  - Elective (3)
  - Elective (3)
  - Elective (3)

Semester Totals 29 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Senior project and internship must be a combined total of 9 hours credit.

## History, (B.A.)

The Department of History introduces students to the richness and complexity of the human experience through a curriculum that covers all major geographic areas and time periods, and emphasizes both the unity of that experience and the diversity resulting from such factors as cultural, social, and gender differences. We seek to develop not only a knowledge of the past, but also an appreciation of history as an intellectual discipline that employs a wide variety of scholarly methodologies in its effort to understand that past. Students are taught to think and work as historians: to read critically and analytically both primary and secondary sources, to appreciate the complexity of historical issues and multiplicity of historical views, and to investigate a historical question or problem and communicate the results of that investigation. Through this broad preparation, history majors acquire essential knowledge and critical skills, which provide valuable assets for a wide spectrum of professions and occupations as well as the fundamental basis for advanced study. Program objectives for a B.A. in History are: (a) a fundamental knowledge of the past, including key historical events, ideas, figures, movements, and periods; (b) an awareness of the diversity of historical experiences over time and space; (c) the ability to recognize, locate, analyze critically, and utilize primary and secondary sources; (d) the ability to recognize and evaluate differing historical interpretations and methodologies; (e) the ability to research a topic thoroughly using both primary and secondary sources, and to present a clear and well-written historical argument based on that research; (f) express a high degree of satisfaction with the quality of the education received in that program.

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## The Major (33 hours)

Majors must complete 33 semester hours in history courses. Of the 33 hours, at least 9 hours must be from HIST 1110, HIST 1120, HIST 2010, and HIST 2020; and at least 21 hours must be in upper-division courses. Of the 21 upper-division hours required, at least 6 must be taken outside of the European and United States fields and a maximum of 18 may be taken in any one field (African, Ancient, Asian, European, Latin American, Middle Eastern, United States).

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

History majors who have attained junior standing, successfully completed six semester hours of lower division history, and maintained a grade point average of at least 3.25 in overall studies and in history courses taken, are eligible for admission to the honors program in history. Students admitted to the program must take 15 hours of honors work, at least 9 of which must be taken in upper division history courses after admission to the departmental program. These 9 hours must include HIST 4012 and HIST 4996. The remaining 3 hours may be taken as an additional semester of HIST 4012 or in an upper-division history course with an honors contract that outlines additional honors-level requirements. Those who successfully complete the program and the regular B.A. requirements will have their degree conferred "With Honors in History." The student's diploma and the record at the University of Memphis will be similarly endorsed. A detailed description of the program, together with application forms for admission, may be obtained in the History Department office.

## Typical 4-Year History Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3-4) \*
  - HIST LD (3) \*\*\*
  - Foreign Language/B.A. (3) \*\*
  - Elective (3)
- ENGL 1020 - English Comp/Analysis

- Elective (3)
- HIST LD (3) \*\*\*
- Foreign Language/B.A. (3) \*\*
- Social/Behavioral Sciences (3) \*

## Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - HIST LD (3) \*\*\*
  - Natural Science (4) \*
  - Fine Arts (3)
  - Elective (3)
- COMM 2381 - Oral Communication
  - Elective (3)
  - Natural Science (4) \*
  - Social/Behavioral Sciences (3) \*
  - UD elective (3)

## Semester Totals 32 hrs

### Junior Year

- UD Elective (3)
- Elective (3)
- Elective (3)
- UD HIST (3)
- UD HIST (3)
- Humanities/Fine Arts (3)
- Elective (3)
- UD HIST (3)
- UD HIST (3)
- UD elective (3)

## Semester Totals 30 hrs

### Senior Year

- UD HIST (3)
- UD HIST (3)
- UD elective (3)



- UD elective (3)
- Elective (3)
- UD HIST (3)
- UD elective (3)
- UD elective (3)
- Elective (4)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\* This plan assumes you are starting your language courses at the intermediate (2010/2020) level required for the degree. If you need to start your language sequence at an earlier level, please account for that and plug those courses into the plan. This will require that you remove one to two "elective" slots and replace them with the necessary language courses.

\*\*\*HIST LD - choose 3 from HIST 1110, HIST 1120, HIST 2010, or HIST 2020

## **Hospitality and Resort Management, (B.A.)**

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements. Note that MATH 1530 (Mathematics requirement) with a minimum grade of "C" is required.

### **College and Degree (B.A.) Requirements (6-9 hours)**

The College and Bachelor of Arts requirement are in addition to the University General Education Program requirements.

### **The Major (42 hours)**

- HPRM 1050 - Business of Hospitality
- HPRM 2004 - Distinguished Speakers
- HPRM 2011 - Hosp Ind Managerial Acct
- HPRM 3330 - Managing Hotel/Resort Ops
- HPRM 3331 - Lodging Mgmt Lab
- HPRM 3061 - Basic Food & Bev Prod Lab

- HPRM 3062 - Rest. Managemet Service Lab
- HPRM 3060 - Food & Bev. Production Theory
- HPRM 3130 - Hospitality Law Ethics& Risk
- HPRM 3315 - Hospitality Human Resource Mgm
- HPRM 3320 - Hospitality Financial Mgmt
- HPRM 3911 - Pre-Internship in HPRM
- HPRM 4301 - Event Management for HPRM/PR
- HPRM 4320 - Hospitality Services Mktg
- HPRM 4620 - Hospitality Operational Anlys
- HPRM 4700 - Integrative Challenge
- HPRM 4911 - Hospitality Mgmt Internship

## Electives (28-31 hours)

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year Hospitality and Resort Management Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Foreign Language/B.A. (3)
- MATH 1530 - Prob/Statistics/Non Calculus
- COMM 2381 - Oral Communication
- HPRM 1050 - Business of Hospitality
  
- ENGL 1020 - English Comp/Analysis
  - Foreign Language/B.A. (3)
- HPRM 2004 - Distinguished Speakers
  - Social/Behavioral Sciences\*
  - Fine Arts/B.A.

Semester Totals 28 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
  - Foreign Language/B.A.
- HPRM 2011 - Hosp Ind Managerial Acct
  - Natural Science (4)
  
- HPRM 3330 - Managing Hotel/Resort Ops
- HPRM 3331 - Lodging Mgmt Lab

- Natural Science (4) \*
- Humanities\*
- Foreign Language/B.A.

Semester Totals 31 hrs

## Junior Year

- HPRM 3060 - Food & Bev. Production Theory
- HPRM 3061 - Basic Food & Bev Prod Lab
- HPRM 3130 - Hospitality Law Ethics& Risk
- HPRM 3315 - Hospitality Human Resource Mgm
  - Elective (3)
- HPRM 3320 - Hospitality Financial Mgmt
  - Social Science\*
  - Elective (3)
  - Elective (3)
- HPRM 3062 - Rest. Managemet Service Lab
- HPRM 3911 - Pre-Internship in HPRM

Semester Totals 30 hrs

## Senior Year

- HPRM 4301 - Event Management for HPRM/PR
- HPRM 4620 - Hospitality Operational Anlys
- HPRM 4320 - Hospitality Services Mktg
  - Elective (3)
  - Upper Division Elective (3)
- HPRM 4700 - Integrative Challenge
  - Elective (3)
  - Elective (3)
- HPRM 4911 - Hospitality Mgmt Internship
  - Upper Division Elective (3)

Semester Totals 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Human Development and Learning, (B.S.Ed.)

Program objective for a B.S.Ed. in Human Development and Learning are: (a) to promote child development and learning; (b) to build family and community relationships; (c) to observe, document, and assess young children and families; (d) to teach and learn, to design, implement and evaluate experiences that promote positive development and learning for all children.

Successful completion of B.S.Ed. requirements with a major in Human Development and Learning will qualify a person to apply for licensure in Early Childhood Education (PreK-3).

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### Mathematics (3 hours)

- MATH 1420 - Foundations of Mathematics

### Humanities (9 hours)

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- ART 1030 - Intro to Art
- MUS 1030 - Introduction to Music
- or
- THEA 1030 - Intro to Theatre
- CLAS 2481 - Mythology
- PHIL 1101 - Fundamental Issues/Philosophy
- PHIL 1102 - Values and Modern World
- POLS 1101 - Intro Ancient Political Thgt
- or
- POLS 1102 - Intro Modern Political Thought

## History (6 hours)

### Choose One:

- HIST 2010 - U S to 1877
- HIST 2020 - The U S Since 1877
- HIST 2030 - Tennessee History

### Choose One:

- HIST 1110 - World Civilization I
- HIST 1120 - World Civilization II

## Social/Behavioral Sciences (6 hours)

### Choose Either

- ESCI 1301 - Survey of World Regions
- or
- ESCI 1401 - Intro/Cultural Geography

### Must Take

- POLS 1030 - American Government

## Natural Science (8 hours)

(choose one course from List 1 and one course from List 2)

### List 1

- BIOL 1010 - Biology of Cells
- and
- BIOL 1011 - Biology of Cells Lab
- or

- BIOL 1020 - Biology of Organisms
- and
- BIOL 1021 - Biology of Organisms Lab

## List 2

- PHYS 1010 - Introductory Physics
- PHYS 1001 - Introductory Physics Lab
- PHYS 1020 - Survey of Astronomy I
- PHYS 1002 - Astronomy Laboratory
- ESCI 1010 - Weather and Climate
- ESCI 1020 - Landforms
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

## Related Liberal Studies (8 hours):

- EDPR 2111 - Development Across Lifespan
- PETE 3604 - Teach Phys Ed/Health/K-Middle
- ART 3411 - Art for Children

## The Major (30 hours)

### Core (24 hours):

- SPED 2000 - Foundation/Exceptional Learn
- SPED 3803 - Classroom/Behavior Management
- IDT 3600 - Technology in Education
- EDPR 4301 - Early Child Dev/Begin Teacher
- ICL 4001 - Teaching/Diverse Environment
- ENGL 4531 - Methods and Techniques ESL
- RDNG 4240 - Literacy in Grades K-4
- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch

## Select One Course From Each of the Following Two Areas:

### Race and Ethnicity:

- SOCI 3401 - Social Inequality
- SOCI 3422 - Racial/Ethnic Minorities
- SOCI 3322 - Methods of Social Research
- SOCI 4420 - Racial Inequality
- SOCI 4442 - Sociology of Poverty

### Family/Culture/Gender:

- ANTH 3511 - Culture/Kin/Family
- ANTH 4411 - Urban Anthropology
- HIST 4863 - History/Childhood in America
- SOCI 3432 - Sociology of Gender or
- SOCI 4460 - Black/White Women in South

## Pre-Residency Semester (15 hours) offered in spring

Early Childhood Education (Grades PreK-3 Licensure) must take

- ICL 3333 - Student Assess/Inst Dec Mking
- ECED 4500 - Emergent Literacy/Lang Dev \*
- ECED 4005 - Fam/Sch Collaboration/ECED \*
- ECED 4520 - Plan/Facilitn Social Lrng/Dev \*
- ECED 4530 - Plan/Facilitn Math/Science Lrng \*

## Residency I Semester (14 hours) offered in fall

Early Childhood Education (Grades PreK-3 Licensure) must take

- ECED 4510 - Early Child Prgms/Pr \*
- ECED 4515 - Teach/Lrng Early Child Ed \*
- ECED 4540 - Pln/Fcilt Infant/Toddler Dev \*
- ICL 4914 - Residency I Practicum \*

## Residency II Semester (12 hours) offered in spring

Early Childhood Education (Grades PreK-3 Licensure) must take

- ICL 4800 - Residency II Prof Seminar \*
- ICL 4904 - Residency II Clinical \*

## Note

\*Requires admission to TEP.

## Typical 4-Year Human Development and Learning: PreK-3 Teacher Licensure Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities (3) \*
- MATH 1420 - Foundations of Mathematics
  - History (3)
  - Fine Arts (3) \*
- ENGL 1020 - English Comp/Analysis
- EDPR 2111 - Development Across Lifespan
- POLS 1030 - American Government
  - Natural Science (4) \*
  - History Selective (3)

Semester Totals 31 hrs

### Sophomore Year

Take the CORE test once you have complete ENGL 1010, ENGL 1020, and MATH 1420.

- EDPR 2111 - Development Across Lifespan
  - ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - IDT 3600 - Technology in Education
    - Natural Science (4) \*
  - ESCI 1301 - Survey of World Regions
- or
- ESCI 1401 - Intro/Cultural Geography
  - SPED 3803 - Classroom/Behavior Management
    - Race & Ethnicity Selective (3)
  - ART 3411 - Art for Children
  - COMM 2381 - Oral Communication
  - ENGL 4531 - Methods and Techniques ESL
  - PETE 3604 - Teach Phys Ed/Health/K-Middle



## Semester Totals 33 hrs

## Junior Year

TEP APPROVAL You will be delayed in graduating if you are not provisionally admitted to TEP by the end of the sophomore year and fully admitted by the of the junior year. You must have a 3.0 GPA at this time.

- ICL 4001 - Teaching/Diverse Environment
- EDPR 4301 - Early Child Dev/Begin Teacher
- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch
  - Family/Culture/Gender Selective (3)
- ECED 4005 - Fam/Sch Collaboration/ECED
- ECED 4520 - Plan/Facilitn Social Lrng/Dev
- ECED 4530 - Plan/Facitn Math/Science Lrng
- ECED 4500 - Emergent Literacy/Lang Dev
- ICL 3333 - Stdnt Assess/Inst Dec Mkng

## Semester Totals 30 hrs

## Senior Year

- ECED 4510 - Early Chld Prgms/Pr
- ECED 4515 - Teach/Lrng Erly Chld Ed
- ECED 4540 - Pln/Fcilt Infant/Toddler Dev
- ICL 4914 - Residency I Practicum
- ICL 4904 - Residency II Clinical
- ICL 4800 - Residency II Prof Seminar

## Semester Totals 26 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Human Services, (B.P.S.)

Students in Human Services are expected to develop a philosophical orientation to the human condition; to enlarge their understanding of social structures, values and norms; to study human growth and development; and to become informed about social change and social

and bureaucratic organizations. Students in Human Services will take courses from such departments as Counseling and Personnel Services, Sociology and Social Work, Psychology, Management, and Special Education.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour American Heritage General Education Program requirement; otherwise, students will have to meet the American Heritage requirement.

## Coordinated Study (51 hours)

### Professional Core

#### Group A Basic Core (12 hours)

- COUN 4611 - Intro to Counseling
- COUN 4621 - Human Interactions
- SWRK 2010 - Introduction to Social Work
- SWRK 2911 - Soc Response to Human Need

#### Group B Professional Writing (3 hours)

Take 1:

- ENGL 3601 - Technical and Profess Writing
- ENGL 3604 - Persuasive Writing
- MGMT 3510 - Business Communications \*(Prerequisite: MIS 2749 or equivalent course)

#### Group C Rehabilitation/Social Intervention (6 hours)

Take 2:

- COBH 4707 - International Health/Prob/Iss
- CJUS 4152 - Drug Misuse and Abuse
- COUN 4781 - Strategy/Crisis Intervention
- COUN 4783 - Alcohol/Drug Abuse Services
- COUN 4901 - Princ/Tech/Rehab Counseling
- COUN 4913 - Medical/Psyc Aspects/Rehab
- COUN 4921 - Vocational Dev/Occupation Info
- HETH 4212 - Trends/Issues in Healthcare
- HETH 4213 - Community Health/Iss/Serv
- PSYC 3507 - Alcohol/Drugs/Behavior (Prerequisite: PSYC 1030)
- PSYC 3512 - Health Psychology
- SLS 3905 - Leisure/Recr Disabilities

- SOCI 4852 - Sociology of Mental Illness
- SW 3170 - Family Caregiving
- SWRK 3920 - Soc Welfare Policy/Programs (Theory & Application)
- UNIV 3534 - Theatre & Therapy

## Group D Support Courses

Twenty-one semester hours must be taken from the following groups (take no more than six hours in any one discipline):

- ANTH 4531 - Alcohol/Drugs/Culture
- COMM 4373 - Interracial Communication
- COMM 4410 - Conflict Resolution and Negot
- EDPR 3302 - Child/Adolescent Development
- PADM 3601 - Public Admin
- PADM 4226 - Intro Nonprofit Organizations
- PSYC 3102 - Abnormal Psychology
- PSYC 3103 - Child Psychology
- SOCI 3401 - Social Inequality
- SOCI 3501 - Sociology of Deviant Behavior
- SOCI 4420 - Racial Inequality
- SOCI 4442 - Sociology of Poverty
- SOCI 4541 - Sociology of Aging
- SOCI 4852 - Sociology of Mental Illness
- UNIV 4527 - The Developing Adult

## Group E Internship (3 hours)

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (Completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Possible Minors

Students pursuing a B.P.S. with a concentration in Human Services may be able to complete a minor in Sociology, Psychology, or Social Work by taking a minimal number of additional classes depending on courses selected for the major. Check with your advisor or the *Undergraduate Catalog* regarding specific minor requirements.

\*Junior standing, prerequisites, or permission of instructor required. Please check the University of Memphis *Undergraduate Catalog*.

## Information Technology (B.P.S.)

The Bachelor of Professional Studies with a major in Professional Studies and a concentration in Information Technology can be gained completely online through the State of Tennessee's TN eCampus Program. The program is designed (1) to promote understanding of the nature of and fundamentals of administrative leadership in the technological fields; (2) to allow students to reflect upon national and international technological development and communication and the significant social and cultural issues raised in those contexts; and (3) to promote skills in information systems, statistical methods, formal and interpersonal communication, including team and organizational relations.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Professional Core and Information Technology Concentration (36 hrs)

### A. Administration and Supervision (Choose 1 course)

- PADM 3601 - Public Admin
- TECH 4381 - Principles of Supervision
- MGMT 3610 - Princ Mgmt/Organ Behav
- LIST 4093 - Special Topics/Leadership

### B. Organizational Systems (Choose 1 course)

- PM 4120 - Organization Theory and Behav
- PADM 4226 - Intro Nonprofit Organizations

### C. Statistical Methods (Choose 1 course)

- PBRL 4410 - Public Relations Research
- SOAA 3350 - Social Statistics
- SOCI 4510 - Intro to Social Research

### D. Written Communications (Choose 2 courses)

- ENGL 3134 - Computer/Writing/Lit
- ENGL 3250 - Professional Comm
- PBRL 3421 - Public Relations Writing

### E. Team & Organizational Relations (Choose 1 course)

- COMM 3010 - Integrated Corp Comm
- COMM 4410 - Conflict Resolution and Negot
- ORCO 3240 - Organizational Comm

### F. International Context (Choose 1 course)

- JOUR 4712 - Media and Cultures
- POLI 4350 - International Law
- PS 3510 - Internl Political Economy

- POLS 3010 - Comparative Politics
- SPAN 3550 - Latin America Country& People

#### G. Information Technology Concentration

##### 1. Management Information Systems Overview (choose 1 course)

- PTMA 3020 - Managing Information Tech
- MGMT 3220 - Mgmt of Info Systems

##### 2. Software

- UNIV 4706 - Managing Software Development

##### 3. Files/Operativng Systems (Choose 1 course)

- INFS 3700 - Systems Analysis and Design
- COMP 3050 - Programming Languages

##### 4. Database Management (Choose 1 course)

- CSCI 3222 - Database Mgmt System
- UNIV 4708 - Business Intelligence

##### 5. Networks (choose one)

- CSCI 4017 - Intro to Information Assurance
- INFS 4900 - Business Data Communications

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Elective (34-40 hrs)

Students must have enough lower or upper-division elective courses (34-40 hours) to reach a minimum of 120 total earned hours required for graduation. Such electives may typically be offered by any department at the University of Memphis.

## Experiential Learning Credit

Experiential Learning Credit may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or noncollege instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area. Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures described above. More detailed information about procedures may be obtained from the individual colleges.

## Integrative Studies, Secondary Math Concentration (B.S.Ed.)

Program objectives for a B.S.Ed. in Integrative Studies are: (a) to understand how learning occurs, how students construct knowledge and acquire skills, and knows how to provided learning opportunities that support their intellectual, social, and personal development; (b) to adapt instructional techniques to youth of diverse cultural and language backgrounds and to students who have exceptional learning needs.

Integrative Studies/Secondary Math Concentration: Program objectives for a B.S.Ed. in Integrative Studies/Secondary Math are: (a) to understand how learning occurs, how students construct knowledge and acquire skills, and knows how to provided learning opportunities that support their intellectual, social, and personal development; (b) preparing, through intensive clinical experiences, highly qualified math teachers grades 6-12.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

NOTE: The following University General Education Program requirements are specified by the department for this major:

### Mathematics (3 hours):

- MATH 1420 - Foundations of Mathematics (Youth Services)
- MATH 1530 - Prob/Statistics/Non Calculus (Secondary Math Licensure)

### Humanities/Fine Arts (9 hours):

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American

Select one Fine Arts:

- ART 1030 - Intro to Art
- or

- MUS 1030 - Introduction to Music

or

- THEA 1030 - Intro to Theatre

Select an additional Fine Arts or one of these courses:

- CLAS 2481 - Mythology

- PHIL 1101 - Fundamental Issues/Philosophy

or

- PHIL 1102 - Values and Modern World

- POLS 1101 - Intro Ancient Political Thgt

or

- POLS 1102 - Intro Modern Political Thought

## History (6 hours):

- HIST 1110 - World Civilization I

-or-

- HIST 1120 - World Civilization II
- HIST 2010 - U S to 1877

-or-

- HIST 2020 - The U S Since 1877

-or-

- HIST 2030 - Tennessee History

## Social/Behavioral Sciences (6 hours):

- POLS 1030 - American Government

plus

- ESCI 1301 - Survey of World Regions

or

- ESCI 1401 - Intro/Cultural Geography

## Natural Sciences (8 hours):

One biological science plus lab from:

- BIOL 1010 - Biology of Cells
- BIOL 1011 - Biology of Cells Lab

or

- BIOL 1020 - Biology of Organisms
- BIOL 1021 - Biology of Organisms Lab

One physical science plus lab from:

- ESCI 1010 - Weather and Climate
- ESCI 1020 - Landforms
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet
- PHYS 1010 - Introductory Physics
- PHYS 1001 - Introductory Physics Lab
- PHYS 1020 - Survey of Astronomy I
- PHYS 1002 - Astronomy Laboratory
- CHEM 1010 - Chemistry of Materials
- CHEM 1011 - Chemistry of Materials Lab
- CHEM 1020 - Chemistry of Life
- CHEM 1021 - Chemistry of Life Lab

## Secondary Math (grades 6-12)

The purpose of the Secondary Math Concentration is to prepare classroom teachers for the teaching of mathematics in grades 6-12.

## Related Liberal Studies (15 hours):

- ENGL 4531 - Methods and Techniques ESL
- SPED 2000 - Foundation/Exceptional Learn
- EDPR 3302 - Child/Adolescent Development
- ICL 4001 - Teaching/Diverse Environment
- IDT 3600 - Technology in Education

## Major Core (26 hours)

- MATH 1910 - Calculus I
- MATH 1920 - Calculus II
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 3581 - College Geometry
- MATH 4151 - History of Mathematics
- MATH 4082 - Math/Mid School Teacher
- MATH 4080 - Math/Sec School Teachers I \*
- MATH 4081 - Math/Sec School Teachers II \*

## Professional Education (38 hours below)



Requires admission to TEP. An application for the Residency Program must be submitted during your Pre-Residency Semester (by the first Tuesday in March) in Ball Hall Room 204. [Application may be found here.](#)

## PreResidency (12 hours)

Requires admission to TEP:

- RDNG 4241 - Literacy in Grades 4-8
- ICL 4004 - Teach Mid Grade/Math
- ICL 4080 - Math Methods High School I
- ICL 4081 - Math Methods HS Teachers II

## Residency I Semester (14 hours) offered in Fall:

- ICL 3333 - Stdnt Assess/Inst Dec Mkng
- ICL 4007 - Curriculum/Instr Sec Math
- ICL 4008 - Teaching Math in Urban Schools
- ICL 4914 - Residency I Practicum

## Residency II Semester (12 hours) offered in Spring:

- ICL 4907 - Stdnt Tchng/Secondary School
- ICL 4800 - Residency II Prof Seminar

## Typical 4-Year Sequence for ITGS: Secondary (6-12) Math Licensure

### Freshman Year

- ENGL 1010 - English Composition
  - MATH 1530 - Prob/Statistics/Non Calculus
  - POLS 1030 - American Government
    - Fine Arts (3)
    - Humanities (3)
  - ENGL 1020 - English Comp/Analysis
  - MATH 1910 - Calculus I
  - ESCI 1301 - Survey of World Regions
- or
- ESCI 1401 - Intro/Cultural Geography
    - US History (3)
  - SPED 2000 - Foundation/Exceptional Learn

## Semester Totals 31 hrs

### Sophomore Year

Take the CORE once you have completed ENGL 1010, ENGL 1020, and MATH 1530.

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- EDPR 3302 - Child/Adolescent Development
  - History (3)
- COMM 2381 - Oral Communication
- MATH 1920 - Calculus II
- ICL 4001 - Teaching/Diverse Environment
- IDT 3600 - Technology in Education
- ESCI 1010 - Weather and Climate
- MATH 2702 - Intro Proof/Fundamental Math
- BIOL 1010 - Biology of Cells
- BIOL 1011 - Biology of Cells Lab

## Semester Totals 33 hrs

### Junior Year

TEP APPROVAL You will be delayed in graduating if you are not provisionally admitted to TEP by the end of the sophomore year and fully admitted by the end of the junior year. You must have a 3.0 GPA at this time.

- MATH 4151 - History of Mathematics
- ICL 4004 - Teach Mid Grade/Math \*
- MATH 4082 - Math/Mid School Teacher
- ENGL 4531 - Methods and Techniques ESL
- MATH 3581 - College Geometry
- ICL 4080 - Math Methods High School I \*
- ICL 4081 - Math Methods HS Teachers II \*
- MATH 4080 - Math/Sec School Teachers I
- RDNG 4241 - Literacy in Grades 4-8 \*
- MATH 4081 - Math/Sec School Teachers II

## Semester Totals 31 hrs

### Senior Year

- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- ICL 4007 - Curriculum/Instr Sec Math
- ICL 4008 - Teaching Math in Urban Schools

- ICL 4914 - Residency I Practicum
- ICL 4907 - Stdnt Tchng/Secondary School
- ICL 4800 - Residency II Prof Seminar

Semester Totals 26 hrs

Total: 120 hours

\* TEP restricted-Students should be provisionally admitted to TEP by the end of the sophomore year and full admitted by the end of junior year and have a 3.0 GPA.

\*\*Take the CORE once you have completed ENGL 1010, ENGL 1020, and MATH 1530

## **Integrative Studies, Youth Services Concentration (B.S.Ed.)**

The Integrative Studies Youth Services concentration, a non-licensure concentration, does not require admittance to the Teacher Education Program (TEP). It does, however, require a 2.25 grade point average, C- or better in all courses in the major, and 45 upper-division hours for graduation.

## **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

NOTE: The following University General Education Program requirements are specified by the department for this major:

### **Mathematics (3 hours):**

- MATH 1420 - Foundations of Mathematics (Youth Services)
- MATH 1530 - Prob/Statistics/Non Calculus (Secondary Math Licensure)

### **Humanities/Fine Arts (9 hours):**

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American

Select one Fine Arts:

- ART 1030 - Intro to Art

or

- MUS 1030 - Introduction to Music

or

- THEA 1030 - Intro to Theatre

Select an additional Fine Arts or one of these courses:

- CLAS 2481 - Mythology
- PHIL 1101 - Fundamental Issues/Philosophy

or

- PHIL 1102 - Values and Modern World
- POLS 1101 - Intro Ancient Political Thgt

or

- POLS 1102 - Intro Modern Political Thought

### History (6 hours):

- HIST 1110 - World Civilization I

-or-

- HIST 1120 - World Civilization II
- HIST 2010 - U S to 1877

-or-

- HIST 2020 - The U S Since 1877

-or-

- HIST 2030 - Tennessee History

### Social/Behavioral Sciences (6 hours):

- POLS 1030 - American Government

plus

- ESCI 1301 - Survey of World Regions

or

- ESCI 1401 - Intro/Cultural Geography

## Natural Sciences (8 hours):

One biological science plus lab from:

- BIOL 1010 - Biology of Cells
- BIOL 1011 - Biology of Cells Lab

or

- BIOL 1020 - Biology of Organisms
- BIOL 1021 - Biology of Organisms Lab

One physical science plus lab from:

- ESCI 1010 - Weather and Climate
- ESCI 1020 - Landforms
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet
- PHYS 1010 - Introductory Physics
- PHYS 1001 - Introductory Physics Lab
- PHYS 1020 - Survey of Astronomy I
- PHYS 1002 - Astronomy Laboratory
- CHEM 1010 - Chemistry of Materials
- CHEM 1011 - Chemistry of Materials Lab
- CHEM 1020 - Chemistry of Life
- CHEM 1021 - Chemistry of Life Lab

## Youth Services Concentration

### Related Liberal Studies (Youth Services)

- IDT 3600 - Technology in Education
- SPED 2000 - Foundation/Exceptional Learn
- ENGL 3500 - Practical English Grammar
- EDPR 2111 - Development Across Lifespan
- ICL 4001 - Teaching/Diverse Environment
- PETE 3604 - Teach Phys Ed/Health/K-Middle
- PSYC 1030 - General Psychology
- SOCI 1010 - Introduction to Sociology

### Major Core (Youth Services)

- EDPR 3302 - Child/Adolescent Development
- RDNG 4240 - Literacy in Grades K-4
- SPED 4111 - Intro/Appl Behav Analysis
- SPED 4112 - Assess/Measure/Appl Behav Anly
- SPED 4113 - Appl Behav Intervent/Strateg
- SPED 4114 - Practitioner Issues/ABA
- ENGL 4531 - Methods and Techniques ESL
- ECED 4005 - Fam/Sch Collaboration/ECED
- RDNG 3001 - Literacy Tutoring
- EDSV 4850 - Practicum/Training Settings

## Guided Electives (Youth Services)

Guided Electives (26 hours) - The following recommended:

- ECED 4500 - Emergent Literacy/Lang Dev
- ECED 4510 - Early Chld Prgms/Pr
- ECED 4540 - Pln/Fcilt Infant/Toddler Dev
- PADM 4226 - Intro Nonprofit Organizations
- PADM 4412 - Neighborhood Dev/Social Entrep
- EDSV 4950 - Internship/Training Settings

## Typical 4-Year Sequence for ITGS: Youth Services

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1420 - Foundations of Mathematics

Fine Arts Selection

- HIST 1110 - World Civilization I

or

- HIST 1120 - World Civilization II
- POLS 1030 - American Government
- ENGL 1020 - English Comp/Analysis
- EDPR 2111 - Development Across Lifespan
- COMM 2381 - Oral Communication
  - American History
  - Humanities Selection

Semester Totals 30 hrs

### Sophomore Year

- SPED 2000 - Foundation/Exceptional Learn
- SOCI 1010 - Introduction to Sociology
- PETE 3604 - Teach Phys Ed/Health/K-Middle
- ENGL 2201 - Literary Heritage -or-
- ENGL 2202 - Lit Heritage: African-American
  - Natural Science & Lab
- ENGL 3500 - Practical English Grammar
- IDT 3600 - Technology in Education
- ICL 4001 - Teaching/Diverse Environment
  - ESCI 1301 or 1401
  - Natural Science & Lab

## Semester Totals 31 hrs

### Junior Year

- EDPR 3302 - Child/Adolescent Development
- RDNG 4240 - Literacy in Grades K-4
- SPED 4111 - Intro/Appl Behav Analysis
- SPED 4113 - Appl Behav Intervent/Strateg
- ECED 4005 - Fam/Sch Collaboration/ECED
  
- ENGL 4531 - Methods and Techniques ESL
- PSYC 1030 - General Psychology
- SPED 4112 - Assess/Measure/Appl Behav Anly
- SPED 4114 - Practitioner Issues/ABA
- EDSV 4850 - Practicum/Training Settings

## Semester Totals 30 hrs

### Senior Year

- EDSV 4950 - Internship/Training Settings
- RDNG 3001 - Literacy Tutoring
  - Elective (3)
  - Elective (3)
  
  - EDSV 4950 (6) Internship
  - Elective (3)
  - Elective (3)
  - Elective (2)

## Semester Totals 29 hrs

## Total: 120 Hours

## Interior Design, (B.F.A.)

The Bachelor of Fine Arts with a major in Interior Design is a professional degree and is fully accredited by the Council for Interior Design Accreditation (CIDA).

**NOTE:** Before enrolling in any Architecture or Interior Design course, all applicants seeking admission to the B.F.A. with a major in Interior design must complete and submit to the Department of Architecture an application form, a writing assignment, and a portfolio of five representative works. These three components comprise the Incoming Evaluation for Interior Design and will be reviewed by a faculty committee. Applicants are accepted on the basis of potential in the field of interior design. After review, the department notifies the student of one of the following: (1) acceptance, (2) one semester acceptance on a probationary basis, (3) recommendation to correct the deficiencies and reapply, or (4) denial of admission. Permission to enroll in any Architecture or Interior Design courses for which a

permit is required beyond first semester, first year is based upon this review. Contact the Department of Architecture for details and deadline.

Students transferring from another major or another institution who intend to pursue a B.F.A. degree with a major in Interior Design must complete the Department of Architecture Incoming Evaluation prior to enrolling in Architecture or Interior Design courses. Transfer students seeking advanced standing in the Interior Design major should submit a portfolio of work representing previously completed Interior Design studio work. The review committee will determine if the portfolio work is equivalent to comparable courses at the University of Memphis. Placement in the major is dependent upon the review. Even if admitted to advanced standing, the student may be required to remedy previous course deficiencies.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note: the following are specified by the department for this program:

### Social/Behavioral Sciences:

- ANTH 1200 - Cultural Anthropology
- and
- SOCI 1010

### Natural Science:

- ESCI 1010 - Weather and Climate
- or
- ESCI 1020 - Landforms
- or
- ESCI 1040 - Physical Geology plus lab

### Humanities:

- ARTH 2010 - World Art I
- and
- ARTH 2020 - World Art II

### History:



- HIST 1110 - World Civilization I
- and
- HIST 1120 - World Civilization II

## Mathematics:

- MATH 1710 - College Algebra

## The Major (79 hours)

### Major Foundations Core (32 hours)

- ARCH 1111 - Fundamentals of Design Studio
- ARCH 1112 - Architecture Graphics Studio
- ARCH 1113 - Design Visualization
- ARCH 1120 - Intro to Architecture + Design
- ARCH 1211 - History of Architecture 1
- ARCH 2212 - History of Architecture 2
- ARCH 2411 - Building Technology 1
- ARCH 2412 - Building Technology 2
- ARCH 2611 - Computer Apps in Design 1
- ARCH 2711 - Design Studio 1

## The Major

### Entrance

Completion of Major Foundations Core (30 hours)

### Candidacy Review and Portfolio Requirements

A Candidacy Review is required of all students intending to major in Interior Design. Admission to the University of Memphis and completion of the major core do not guarantee placement in the program. Admission is selective and is based on a portfolio evaluation reflecting professional standards and expectations of the major. A portfolio that includes but is not limited to works from the major core courses is required as part of the application. Guidelines and application forms for admission for the Interior Design major are available in the department office. Consultation with a faculty advisor is recommended before or during portfolio preparation. Students may submit portfolios for review no earlier than the semester that Candidacy requirements are being completed.

Transfer students must meet entrance requirements of the major. After review, the department notifies the student of one of the following: (1) acceptance, (2) one semester acceptance on a probationary basis, (3) recommendation to correct the deficiencies and reapply, or (4) denial of admission. Permission to enroll in any 3000-4000 level Architecture or Interior Design course is based upon this review.

## Completion of Major (47-49 hours)

- ARCH 2612 - Computer Apps in Design 2
- ARCH 2712 - Design Studio 2
- ARCH 3213 - Survey of Interiors+Furniture
- ARCH 3421 - Environmental Systems
- ARCH 3431 - Professional Practice
- ARCH 3613 - Computer Apps in Design 3
- ARCH 3713 - Design Studio 3
- ARCH 3714 - Design Studio 4
- ARCH 4421 - Sustainable Design
- ARCH 4441 - Construction Documents
- ARCH 4715 - Design Studio 5
- ARCH 4716 - Design Studio 6

## Electives (1-3 hours)

Architecture or approved open electives complete the 79 semester hours of course work. See advisor for details.

## Typical 4-Year Interior Design Sequence

### Freshman Year

- ARCH 1112 - Architecture Graphics Studio
- ARCH 1120 - Intro to Architecture + Design
- ANTH 1200 - Cultural Anthropology
- ENGL 1010 - English Composition
- HIST 1110 - World Civilization I
- SOCI 1010 - Introduction to Sociology
  
- ARCH 1111 - Fundamentals of Design Studio
- ARCH 1113 - Design Visualization
- ARCH 1211 - History of Architecture 1
- ENGL 1020 - English Comp/Analysis
- HIST 1120 - World Civilization II
- MATH 1710 - College Algebra

Semester Totals 36 hrs

### Sophomore Year

- ARCH 2212 - History of Architecture 2
- ARCH 2411 - Building Technology 1
- ARCH 2611 - Computer Apps in Design 1

- ARCH 2711 - Design Studio 1
- COMM 2381 - Oral Communication
  
- ARCH 2412 - Building Technology 2
- ARCH 2612 - Computer Apps in Design 2
- ARCH 2712 - Design Studio 2
- ENGL 2201 - Literary Heritage
  
- OR
  
- ENGL 2202 - Lit Heritage: African-American

Semester Totals 31 hrs

## Junior Year

- ARCH 3421 - Environmental Systems
- ARCH 3613 - Computer Apps in Design 3
- ARCH 3713 - Design Studio 3
- ARTH 2010 - World Art I
  
- ARCH 3213 - Survey of Interiors+Furniture
- ARCH 3431 - Professional Practice
- ARCH 3714 - Design Studio 4
- ARTH 2020 - World Art II

Semester Totals 28 hrs

## Senior Year

- ARCH 4441 - Construction Documents
- ARCH 4715 - Design Studio 5
  - ARCH elective\*\*\* (3)
  - Natural Science\*\* (4)
  
- ARCH 4421 - Sustainable Design
- ARCH 4716 - Design Studio 6
  - Natural Science\*\* (4)

Semester Totals 25-27 hrs

Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement.

\*\*Natural \*\*Science (8 Credit hours required): ESCI 1010, ESCI 1020, ESCI 1040 (Must take 2 of these 3)

\*\*\*Elective must be 3000-4000 level with ARCH prefix.

A minimum of 42 upper division hours in the major required.

## International Business, (B.B.A.)

The International Business major prepares undergraduate business students for entry-level careers in international business fields through a broad, interdisciplinary curriculum that combines theoretical and practical international business study with course work in the liberal arts, including foreign language and area studies. Program objectives for the B.B.A. in International Business are found [here](#).

For further information concerning this program, contact the International Business advisor or The Fogelman College of Business and Economics Advising Office.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

## Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management

- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (27 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

## Foreign Language:

6 semester hours in one modern foreign language at or above the 2000 level or equivalent.

## Choose 4 International Business Courses From the Following (12 hours):

- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MKTG 4530 - International Marketing
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology

## Choose 2 Additional Courses From the Following (6 hours):

- BA 4911 - Internship International Business
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 3720 - Financial Markets
- FIR 4440 - Intermediate Managerial Finance
- FIR 4550 - International Finance
- FIR 4720 - Management of Financial Institutions

- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4080 - Marketing Research
- MKTG 4470 - Essentials of Negotiation
- MKTG 4530 - International Marketing
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- SCMS 2610 - Introduction to Supply Chain Management
- SCMS 4510 - Operations Planning and Resources Management
- SCMS 4511 - Supply Chain Strategy

### Choose 1 (3 hours):

- BA 4911 - Internship International Business
- BA 4910 - Independent Study in International Business
  - Study Abroad

### Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120. See International Business advisor for recommended electives in global and area studies.

### Typical 4-Year International Business Sequence:

#### Freshman Year

- ENGL 1010 - English Composition
  - Humanities/Fine Arts (3) \*
  - Foreign Language (3)
- MIS 2749 - Foundation/Information Systems
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - Elective (3) \*
  - Foreign Language (3)
- ECON 2010 - Intro to Macroeconomics
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1421 - Honors Calculus I
  
- or
  
- MATH 1910 - Calculus I

## Semester Totals 30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
  - Foreign Language (3)
  - Natural Science (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
- COMM 2381 - Oral Communication
  - Foreign Language (3)
- ECON 2020 - Intro to Microeconomics
  - Natural Science (4) \*

## Semester Totals 32 hrs

### Junior Year

- MGMT 3510 - Business Communications
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
- MIS 3210 - Critical Thinking Using Analytics
- MGMT 3110 - Organization and Mgmt
- SCMS 3510 - Operations Management
- Major elective (3)
- MKTG 3010 - Principles of Marketing
  - Humanities/Fine Arts (3) \*
- FIR 3410 - Financial Management

## Semester Totals 30 hrs

### Senior Year

- Major elective (3)

- Major elective (3)
- History (3) \*
- Major elective (3)
- Major requirement (3)
- Major elective (3)
- History (3) \*
- Elective (1-3)
- MGMT 4710 - Strategic Management
  - Major elective (3)

Semester Totals 28 - 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **International Organizational Leadership (B.P.S.)**

The Bachelor of Professional Studies with a major in Professional Studies and a concentration in International Organizational Leadership can be gained completely online through the State of Tennessee's TN eCampus Program. The program is designed (1) to promote understanding of the nature of bureaucratic organizations and the fundamentals of administrative leadership; (2) to allow students to reflect upon national and international organizational context and upon significant social and cultural issues raised in those contexts; and (3) to promote skills in formal and interpersonal communication, including sensitivity to international issues and cultural diversity that have an impact upon the quality of work.

## **General Education (35-41 hours)**

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## **Professional Core and Organizational Leadership Concentration (36 hrs)**

A. Administration and Supervision (Choose 1 course)

- PADM 3601 - Public Admin
- TECH 4381 - Principles of Supervision
- MGMT 3610 - Princ Mgmt/Organ Behav
- LIST 4093 - Special Topics/Leadership

B. Organizational Systems (Choose 1 course)



- PM 4120 - Organization Theory and Behav
- PADM 4226 - Intro Nonprofit Organizations

C. Statistical Methods (Choose 1 course)

- PBRL 4410 - Public Relations Research
- SOAA 3350 - Social Statistics
- SOCI 4510 - Intro to Social Research

D. Written Communications (Choose 2 courses)

- ENGL 3134 - Computer/Writing/Lit
- ENGL 3250 - Professional Comm
- PBRL 3421 - Public Relations Writing

E. Team & Organizational Relations (Choose 1 course)

- COMM 3010 - Integrated Corp Comm
- ORCO 3240 - Organizational Comm

F. International Context (Choose 1 course)

- JOUR 4712 - Media and Cultures
- POLI 4350 - International Law
- PS 3510 - Internl Political Economy
- POLS 3010 - Comparative Politics
- SPAN 3550 - Latin America Country& People

G. International Organizational Leadership (15 hrs - All courses required)

- BMGT 3600 - International Mgmt
  - POLI 4350 International Law
  - PS 3510 International Political Economy
- POLS 4508 - Theories Internatl Relations
- COMM 3560 - Intercultural Communtn

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Electives (34-40 hrs)

Students must have enough lower or upper-division elective courses (34-40 hours) to reach a minimum of 120 total earned hours required for graduation. Such electives may typically be offered by any department at the University of Memphis.

## Experiential Learning Credit

Experiential Learning Credit may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or noncollege instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area. Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures described above. More detailed information about procedures may be obtained from the individual colleges.

## International Studies, (B.A.)

The International Studies program provides the opportunity to bring the knowledge of several traditional disciplines to bear upon a focal point of human relationships and problems that cross national and cultural boundaries. The program objectives are designed to serve the student who seeks knowledge of the range of contemporary and possible future problems that confront international society and an understanding of alternative national and cultural perspectives on solutions to those problems. The program also serves the needs of students planning a career in the Foreign Service or related agencies of the federal government and students preparing for employment abroad in the private sector, or in international organizations, private or public. The program objectives are to: (a) learn key issues of contention related to the international system; (b) learn central economic, historical, cultural, geographical, and political concepts related to the study of the international system; (c) demonstrate competency in at least one modern foreign language; (e) be able to conduct and present scholarly research on international issues; (f) complete at least one internationally-related experiential learning activity.

The program emphasis is on the course work in history, political science, economics, anthropology, and geography, with contributions from other social science disciplines and art. Within the program, the student is required to concentrate a part of the work in the field of American foreign policy or in one of five areas of the world. Students are encouraged to pursue the study of a foreign language and to seek opportunities for travel and study abroad. The student's program should be planned in consultation with the Director or Associate Director of International Studies.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that the following are required as prerequisites for upper-division courses in the International Studies major: Social Science:

- ECON 2020 - Intro to Microeconomics
- POLS 1501 - International Relations

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements and are listed above.

## The Major (39 hours)

### Core requirements (27 hours)

#### 1. Lower Division Core (6 credits)

**a. Select 1 from the following:**

- POLS 1501 - International Relations

or

- INTL 1101 - Introduction to International Studies

**b. Select 1 from the following (unless taken to satisfy previous requirement)**

- ANTH 1200 - Cultural Anthropology
- ESCI 1301 - Survey of World Regions
  - INTL 1101
- POLS 1301 - Intro to Comparative Politics
  - POLS 1501

#### 2. Upper Division Core (21 credits)

**a. Global Studies (Select 9 hours from the following 4 courses)**

- ANTH 3200 - Peoples/Cultures World
- ECON 4350 - International Econ
- POLS 4508 - Theories Internatl Relations
- HIST 4260 - World Since 1945

**b. International Political, Economic, and Development Processes - Select 9 hours from at least 2 disciplines**

- ANTH 3500 - Anth of Global Health
- ANTH 4220 - Cultural Perspec/Environment
- ANTH 4415 - Anthropology Human Rights
- ANTH 4416 - Culture/Identity/Power
- COMM 4375 - Intercultural Communication
- ECON 4351 - International Monetary Theory/Policy
- ENGL 4442 - Studies in World Literature
- ENGL 4521 - Language and Society
- ESCI 4430 - Economic Geography
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3505 - International Organizations
- POLS 4504 - International Law
- POLS 4510 - Politics of Global Economy
- SOCI 2100 - Sociology of Globalization
- UNIV 3550 - Clash of Cultures

Note that courses taken here cannot be double-counted for concentration credit hours

## Seminar

- INTL 4601 - Seminar International Studies

## Concentration (9 hours)

### Global Studies

Global Studies students gain functional expertise in one of the following areas of emphasis: (1) Conflict, Peace, and Human Rights, (2) Global Governance & Political Economy (3) International Development & Environmental Sustainability, (4) Global Health & Ethics, or (5) Global Communication, Administration, & Management. Students choose credits in at least 2 disciplines in consultation with their advisor from the following:

- ANTH 3200 - Peoples/Cultures World
- ANTH 3500 - Anth of Global Health
- ANTH 4413 - Anth of Tourism/Environment
- ANTH 4415 - Anthropology Human Rights
- ANTH 4416 - Culture/Identity/Power
- ANTH 4417 - Hidden Worlds of Food
- ANTH 4510 - Health/Culture/Environ Justice
- ANTH 4531 - Alcohol/Drugs/Culture
- ANTH 4541 - Nutritional Anth
- ANTH 4551 - Culture/Sex/Childbirth
- CJUS 2110 - Comparative Justice System
- CJUS 4190 - Terrorism Soc/Legl Prsp
- COMM 4375 - Intercultural Communication
- ECON 4230 - Ecological Economics
- ECON 4351 - International Monetary Theory/Policy
- ENGL 4442 - Studies in World Literature
- ENGL 4511 - Language and Literature
- ENGL 4521 - Language and Society
- ENGL 4531 - Methods and Techniques ESL
- ENGL 4532 - Skills/App/Assess ESL
- ESCI 4252 - Global Environmental Change
- FIR 4550 - International Finance
- HIST 3803 - American Diplomatic History
- HIST 3811 - U S Military/Naval History
- HIST 3815 - World War II
- HIST 3817 - Vietnam War Global Prsp
- HPRM 4400 - International Hospitality
- JDST 4511 - Holocaust Studies
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MKTG 4530 - International Marketing
- PADM 3601 - Public Admin
- PADM 4226 - Intro Nonprofit Organizations
- PADM 4227 - Issues/Nonprofit Admin
- PADM 4401 - Comparative Public Adm
- PHIL 3411 - Contemporary Moral Problems
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics
- POLS 3310 - Politics/Developed World
- POLS 3320 - Human Rights/World Politics
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3340 - Power/Politics/State

- POLS 3505 - International Organizations
- POLS 3506 - American Foreign Policy
- POLS 3507 - Terrorism
- POLS 4315 - Revolution/Political Violence
- POLS 4504 - International Law
- POLS 4506 - Prob American Foreign Policy
- POLS 4510 - Politics of Global Economy
- POLS 4511 - International Security
- POLS 4512 - Global Environmental Politics
- SLS 4165 - Sport/Global City
- SLS 4175 - Internationl Persp Sport Mgmt
- UNIV 4511 - Holocaust Studies

## Area Studies

Choose 3 courses in at least 2 disciplines in consultation with academic advisor. (9 credits)

- ANTH 3200 - Peoples/Cultures World
- ANTH 3242 - Peoples of Africa
- CHIN 3402 - Readings in Chinese Culture
- CHIN 4301 - Modern Chinese Fiction
- CHIN 4304 - Advanced Chinese I
- CHIN 4305 - Advanced Chinese II
- CHIN 4501 - Intro to Chinese Linguistics
- CJUS 2110 - Comparative Justice System
- CLAS 2481 - Mythology
- ENGL 3220 - British Lit since 1750
- ENGL 4442 - Studies in World Literature
- ENGL 4511 - Language and Literature
- ENGL 4521 - Language and Society
- ENGL 4531 - Methods and Techniques ESL
- ENGL 4532 - Skills/App/Assess ESL
- ESCI 1401 - Intro/Cultural Geography
- ESCI 4307 - Thematic Studies/China
- FREN 3401 - French Civilization
- FREN 3411 - Intro To French Lit
- FREN 3791 - French for Commerce I
- FREN 3900 - French Culture and Society
- FREN 4412 - 17th & 18th Centuries
- FREN 4413 - 19th Century French Lit
- FREN 4414 - 20th Century French Lit
- FREN 4415 - Francophone Literature
- FREN 4780 - Individual Study French
- FREN 4801 - Cont France/Francophone World
- GERM 3411 - Intro German Lit and Culture I
- GERM 3412 - Intro Germ Lit and Culture II
- GERM 3791 - Business German I
- GERM 3792 - Business German II
- GERM 4443 - German Writers 20th Century
- GERM 4451 - German Drama
- GERM 4465 - German Narrative Prose
- GERM 4466 - German Poetry
- GERM 4480 - Goethe
- GERM 4501 - Teaching German Pedagogy
- HIST 3122 - England Since 1714
- HIST 3211 - Colonial Latin America
- HIST 3212 - Latin American Nations
- HIST 3273 - Islamic History to 1405
- HIST 3275 - History of Jewish People
- HIST 3282 - History of Africa since 1500
- HIST 3291 - Modern Asia

- HIST 3302 - Modern Europe 1800-Present
- HIST 3815 - World War II
- HIST 3817 - Vietnam War Global Prsp
- HIST 4145 - History of Modern Germany
- HIST 4162 - Russia after 1917
- HIST 4213 - Women/Gender/Latin America
- HIST 4221 - 20th Century Latin Amer Rev
- HIST 4222 - Race/Class in Latin America
- HIST 4272 - Modern Middle East
- HIST 4283 - History/South Africa
- HIST 4288 - West Africa/Diaspora
- HIST 4292 - Modern China 1800-Present
- HIST 4294 - Modern Japan 1800-Present
- HIST 4461 - Europe 1914-1945
- ITAL 3311 - Adv Conversation/Composition I
- ITAL 3312 - Adv Conversation/Compositn II
- ITAL 3411 - Intro to Italian Literature
- ITAL 3900 - Italian Culture and Society
- JAPN 3401 - Intro to Japanese Literature
- JAPN 3402 - Readings/JAPN Culture
- JAPN 3900 - Japan Culture/Society
- JAPN 4401 - Advanced Japanese I
- JAPN 4402 - Advanced Japanese II
- JAPN 4701 - Japn/Professional Purpose I
- LALI 4442 - Italian Cinema
- PHIL 3721 - Chinese Philosophy
- POLS 3302 - West Europe Govt/Politics
- POLS 3306 - Latin American Govt/Politics
- POLS 3309 - Govt/Politics of Mid East
- POLS 3310 - Politics/Developed World
- POLS 4307 - Govt and Pol Communist China
- PORT 4024 - Brazilian Short Story
- SPAN 3311 - Intrmdiate Conversation
- SPAN 3312 - Adv Conversation
- SPAN 3313 - Advanced Composition
- SPAN 3550 - Latin America Country& People
- SPAN 4306 - Applied Span Linguistics
- SPAN 4410 - Spanish Lit and Civilization
- SPAN 4431 - Contemporary Spanish Prose
- SPAN 4432 - Contemp Spanish Poetry/Drama
- SPAN 4510 - Spanish Amer Lit/Civilization
- SPAN 4561 - Pre-Contemp Span Amer Fiction
- SPAN 4562 - Contemporary Span Amer Fiction
- SPAN 4563 - Hispanic Literature Genres
- SPAN 4701 - Spanish for Commerce I
- SPAN 4702 - Spanish for Commerce II
- SPAN 4703 - Languages/Cultures/Communities
- UNIV 4511 - Holocaust Studies

## Foreign Language (6 hours)

In addition to the Bachelor of Arts language requirement, completion of an additional six hours in that same language at the 3000 level or higher.

## Experiential Activity

Students are required to complete an international or experiential learning experience. This may be fulfilled through participation in a formal education abroad program or through foreign based work, service, or internship activities. A U.S.-based experience of an international nature or prior international experience may be considered. This experience must be approved by the Director.

## Electives (21-22 hours)

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year International Studies Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Elective (3)
  - Foreign Language/B.A. (3)
  - MATH (3-4) \*
- POLS 1501 - International Relations
- ENGL 1020 - English Comp/Analysis
  - Lower Division Core Selection (3)
  - Foreign Language/B.A. (3)
  - Humanities/Fine Arts (3) \*

Elective (3)

### Semester Totals 30-31 hrs

### Sophomore Year

- History (3) \*
- Social/Behavioral Science (if needed) (3)
- Natural Science (4) \*
- UD Foreign Language (3)
- Fine Arts (3) \*
- Elective (3)
- Natural Science (4) \*
- UD Foreign Language (3)
- History (3) \*
- COMM 2381 - Oral Communication

### Semester Totals 32 hrs

## Junior Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - Upper Division Core Selection (3)
  - UD Elective (3)
  - Upper Division Core Selection (3)
  - Inter. Processes (3)
  
  - Upper Division Core Selection (3)
  - UD Elective (3)
  - Inter. Processes (3)
  - Inter. Processes (3)
  - Elective (3)

Semester Totals 30 hrs

## Senior Year

- INTL 4601 - Seminar International Studies
  - INTL conc. elective (3)
  - UD elective (3)
  - UD elective (3)
  - Elective (3)
  
  - INTL conc. elective (3)
  - UD elective (3)
  - Elective (4)
  - INTL conc. elective (3)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Journalism (B.A.)**



## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## Bachelor of Arts (B.A.) (6-9 hours)

Students must take at least 42 hours but may not exceed 48 hours of coursework in the department of Journalism and Strategic Media. The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## Journalism and Strategic Media Core (21 hours)

### Major Core (15 hours)

Completion of

- JRSM 1700 - Survey of Media
- JRSM 1750 - Precision Language
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
- JRSM 4700 - Media Law

### One of the Following (3 Hours):

- JRSM 4702 - Media, Diversity & Society
- JRSM 4704 - Issues in Sport and Media
- JRSM 4708 - Media Ethics
- JRSM 4716 - Media History
- JRSM 4720 - Presidents and the Press

### Select one from (3 hours):

- JRSM 4930 - Media Internship
- or
- JRSM 4940 - Student Media Practicum

## Journalism Major Core (24 hours)

- JOUR 3120 - Reporting
- JOUR 3526 - Multimedia Storytelling
- JOUR 4998 - Multimedia News Lab

Two of the following:

- JOUR 3130 - Feature Writing/Reporting
- JOUR 4124 - Data Writing/Reporting
- JOUR 4150 - Sports Writing/Reporting
- JOUR 4160 - Food Writing/Reporting
- JOUR 4170 - Business Writing/Reporting
- JOUR 4180 - Public Issues Writing/Reporting
- JOUR 4190 - Opinion Writing/Reporting
- JOUR 4629 - TV News Writing/Reporting

Two of the following:

- JOUR 4140 - Publication Design
- JOUR 4500 - Web Publish I: html/CSS
- JOUR 4550 - Web Publish II: html/CSS
- JOUR 4560 - Interactive Media
- JOUR 4920 - Information Design
- JOUR 4526 - Advanced Photojournalism
- JOUR 4639 - TV News Producing
- JOUR 4155 - Multimedia Sports Reporting
- JRSM 4910 - Advanced Social Media

One ADVR/JOUR/JRSM/PBRL elective

## Electives (13 hours)

Completion of courses to bring the total to 120 semester hours.

## Typical 4-Year Journalism Sequence

### Freshman Year

- JRSM 1700 - Survey of Media \*\*
- JRSM 1750 - Precision Language
  - Foreign Language/B.A. (3)
  - Social/Behavioral Sciences (3) \*
- ENGL 1010 - English Composition
  
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
  - Foreign Language/B.A. (3)
  - Humanities/Fine Arts (3) \*
- ENGL 1020 - English Comp/Analysis

## Semester Totals 30 hrs

### Sophomore Year

- JOUR 3526 - Multimedia Storytelling
- JOUR 3120 - Reporting
  - Foreign Language/B.A. (3)
  - History (3) \*
- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American
  - Humanities/Fine Arts (3) \*
  - Natural Science (4) \*
  - Foreign Language/B.A. (3)
  - MATH (3) \*
  - JOUR writing elective (3)

## Semester Totals 31 hrs

### Junior Year

- Non-JRSM Elective (Minor) (3)
- JOUR writing elective (3)
- JOUR production elective (3)
- History (3)
- Natural Science\* (4)
- COMM 2381 - Oral Communication
  - ADVR/JOUR/JRSM/PBRL elective (3)
  - JOUR production elective (3)
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM Elective (Minor) (3)

## Semester Totals 30-31 hrs

### Senior Year

- JRSM 4700 - Media Law
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM Elective (Minor) (1)
- JOUR 4998 - Multimedia News Lab
- JRSM 4930 - Media Internship or
- JRSM 4940 - Student Media Practicum
  - UD JRSM Elective (3)
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM Elective (Minor) (3)

- Non-JRSM Elective (Minor) (3)

Semester Totals 28 hrs

Total Hours: 120

Internship elective highly recommended last semester to enhance employability and complete minimum of 120 hours for degree.

Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*JRSM 1700 fulfills Social Science General Education Requirement

## **Judaic Studies (B.L.S.)**

Bornblum Judaic Studies explores the experience of the Jewish people within the contexts of world cultures. Non-theological in its orientation, it provides students the opportunity to study related areas, including the history of the Jewish people, the structures and politics of Jewish communities, the Hebrew and Arabic languages, and the religious, intellectual, and aesthetic traditions of the Jewish people.

## **General Education (35-41 hours)**

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## **Judaic Studies Coordinated Study (45 hrs)**

## **Group D. Interdisciplinary Electives (9 hrs-take 3)**

- ARTH 4121 - Ancient Art Near East
- HIST 4272 - Modern Middle East
- HIST 4320 - Ancient Near East
- PHIL 3701 - Human and the Divine
- POLS 3102 - Religion and Politics
- SOCI 3860 - Sociology of Religion

## Group C. Upper Division Electives (15 hrs)

With the permission of the Director of Bornblum Judaic Studies, students may substitute the following courses for two courses listed under C, or they may be used as part of the electives listed below:

JDST 4700-4799

Special Topics

JDST 4990 Independent Study

Jewish Heritage (take 2 or 3)

- ENGL 4461 - Bible as Literature
- HIST 3275 - History of Jewish People
- JDST 3661 - Old Testament
- JDST 3802 - Jewish Thought II
- JDST 4671 - Jewish Literary Texts
- JDST 4801 - Jewish Mysticism
- JDST 4841 - Biblical Archaeology

Israel (take 1 or 2)

- JDST 4820 - Political History of Israel
- JDST 4830 - Israeli/Arab Conflict
- JDST 4840 - Israel/Antiquity in Modernity

## Group B. Upper Division Core (6 hrs-Take 2)

- HIST 3275 - History of Jewish People
- JDST 3601 - Judaism
- JDST 3801 - Jewish Thought I

## Group A. Lower Division Core (15 hrs)

- HEBR 1010 - Elementary Hebrew I
- HEBR 1020 - Elementary Hebrew II
- HEBR 2010 - Intermediate Hebrew I
- HEBR 2020 - Intermediate Hebrew II
- JDST 2850 - Religions of Abraham

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Electives (25-31 hrs)

## Experiential Learning Credit

Experiential Learning Credit may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or noncollege instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area. Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures described above. More detailed information about procedures may be obtained from the individual colleges.

## Law Enforcement Administration, (B.P.S)

Advising guidelines for the Bachelor of Professional Studies (B.P.S.) degree with a concentration in Law Enforcement Administration are designed for experienced law enforcement professionals who wish to further their careers by completing a program of study designed to increase their skills in management, organizational relations, and communication; their knowledge of the contexts within which law enforcement administration fits; their understanding of workplace issues that can affect productivity; and their ability to manage diversity in the workforce. In most cases, candidates for this degree program will be active duty or retired law enforcement officers at the municipal, county, or state levels, though military police and, in certain circumstances, those whose experience is in private security are eligible as well.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Coordinated Study (58 hours)

## Pre Assessed Credit (10 hours)

**A minimum of 10 hours of pre assessed experiential learning work from a POST certified training academy or Military MP training will be accepted with proper documentation. The 10 hours will be applied to the Coordinated Study.**

## Organization and Administration Required Core (12 hours)

- ACCT 2010 - Fundamentals of Acct I
- CJUS 4126 - CJUS Admin and Mgmt
- or
- MGMT 3110 - Organization and Mgmt
- or
- POLS 3601 - Public Administration
- or
- TECH 4381 - Principles of Supervision
- PBRL 3400 - Survey of Public Relations \*
- MGMT 3215 - Management of Human Resources

### Note

\*CJ 372 Mass Media and the Police, taken at the FBI National Academy and transferred from The University of Virginia, will be accepted in place of this course.

## Team Work and Organizational Relations (6 hours)

Select two courses:

- COMM 3342 - Communication and Leadership
- COMM 4011 - Communication in Organizations
- COUN 4621 - Human Interactions
- COUN 4781 - Strategy/Crisis Intervention
- LEGL 3482 - Labor Law
- MGMT 4420 - Organizational Behavior in Business

## Written Communication (3 hours)

Select one course:

- ENGL 3601 - Technical and Profess Writing
- ENGL 3604 - Persuasive Writing
- MGMT 3510 - Business Communications

## Decision-Making (6 hours)

Select one course from Group A and one from Group B

### Group A

- CJUS 3129 - Statistical Methods/CJUS
- POLS 4101 - Political Statistics
  - SOCI 3311 - Social Statistics

### Group B

- CJUS 3130 - Research Methods CJUS \*
- SOCI 3322 - Methods of Social Research

### Note

\*CJ 571 Applied Research Methods in Law Enforcement, taken at the FBI National Academy and transferred from The University of Virginia, will substitute for one of these courses.

## Professional Ethics (3 hours)

Select one course:

- CJUS 4130 - Ethical Dilemmas/CJUS
- LEGL 2400 - Legal Ethics
- PHIL 3511 - Ethical Theory
- UNIV 3540 - Ethics & Professionalism
  - Urban and Public Policy Issues

## Urban Issues (6 hours)

Select two courses\*:

- ANTH 4411 - Urban Anthropology
- ANTH 4412 - Neighborhood Development
- ESCI 3451 - Intro/Urban Planning
- POLS 4222 - Urban Politics
- SOCI 3112 - Contemporary Social Problems
- SOCI 4631 - Cities in Change



## Note

\*CJ 360 Overview of Criminal and Community Behavior, taken at the FBI National Academy and transferred from The University of Virginia, will substitute for one of these courses.

## Public Policy Issues (6 hours)

Select two courses:

- CJUS 3226 - Police in America
- LEGL 3487 - Admin Law/Procedure
- POLS 3213 - Intro to Public Policy
  - POLS 4221 - Urban Administration
  - SOCI 4842 - Sociology of Occupations and Professions

## Social Issues (6 Hours)

Select one course:

- COMM 4373 - Interracial Communication
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 4460 - Black/White Women in South

## Behavioral Issues (3 hours)

Select one course\*:

- CJUS 3541 - Criminology
- PSYC 3102 - Abnormal Psychology
- PSYC 3106 - Social Psychology
- PSYC 3507 - Alcohol/Drugs/Behavior
- SOCI 3701 - Individual and Society

## Note

\*CJ 462 Applied Criminal Psychology, taken at the FBI National Academy and transferred from The University of Virginia, will substitute for one of these courses.

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (Completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Legal Studies, (B.P.S.)

In the Legal Studies Program, students acquire the knowledge and skills required to provide substantive legal services under the supervision of an attorney. Only licensed attorneys are permitted to practice law. However, they maximize efficiency and productivity by adding qualified paralegals and legal assistants to their support staff. Not only are paralegals integral to law firms, but their unique skill sets are becoming increasingly vital to corporations, government agencies, state and federal courts, law enforcement, health care organizations, non-profits, educational institutions, and a wide range of other professional settings.

The program offers a Bachelor of Professional Studies degree (BPS) with a concentration in Legal Studies. The core curriculum emphasizes four correlated disciplines: (1) theory, process, application, and ethics of law; (2) research and investigation; (3) law-related technologies, and (4) professional decorum and communication skills. The program is designed to equip students for employment as essential support staff for licensed attorneys. It also provides an excellent academic foundation for students aspiring to later attend law school.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Coordinated Study (Major) (54 hours)

No more than 15 hours of the Legal Studies Professional Core may be satisfied through transfer credit.

## Legal Studies Professional Core\*\* (30 hours)

- LEGL 2400 - Legal Ethics
- LEGL 2410 - Intro to Law

- LEGL 3150 - Legal Research/Writing I \*
- LEGL 3410 - Contracts Commercial Law
- LEGL 3420 - Torts
- LEGL 3440 - Civil Procedure
- LEGL 4150 - Legal Research Writing II
- LEGL 3484 - Bankruptcy Practices
- LEGL 3486 - Criminal Law & Procedure
- UNIV 4110 - Internship \*\*

## Note

\* Students must complete LEGL 2400, LEGL 2410, and LEGL 3150 with a grade of C- or better before enrolling in any upper division (3000-4000 level) LEGL courses.

\*\* A permit is required to enroll in UNIV 4110 - Internship. The program coordinator approves internships and issues permits. In order to be eligible, students must have earned (1) ninety credit-hours and (2) a grade of C- or better in both LEGL 3150 - Legal Research/Writing I and LEGL 4150 - Legal Research Writing II. The internship requires students to perform 150 clock-hours of substantive legal work within a professional legal environment. Although the academic advisors and the program coordinator are available to assist however possible, it is each student's responsibility to find, apply for, and secure his/her own internship prior to seeking a permit for UNIV 4110. Students cannot transfer credit for internships from other schools or programs unless the student and the internship both meet UM's Legal Internship standards, as determined by the program coordinator. For more information and related forms and documents, please visit [www.memphis.edu/univcoll/forms.php](http://www.memphis.edu/univcoll/forms.php).

## Law-Related Electives (12 hours)

- LEGL 3400 - Estates and Probates
- LEGL 3430 - Business Associations
- LEGL 3481 - Family Law
- LEGL 3482 - Labor Law
- LEGL 3485 - Real Estate Practices
- LEGL 3487 - Admin Law/Procedure
- LEGL 4200 - Healthcare Liability
- LEGL 4300 - Immigration Law
- POLS 4709 - Mock Trial \*

## Note

\* Mock trial is a specialty course offered by the Political Science Department. It is limited to students who audition and are selected for the UM Mock Trial team, which sometimes travels for regional competitions. Eligible students may take the course twice for a total of six credit hours, but only in consecutive semesters (fall and then spring). For more information on permits, auditions, requirements, and offerings, please contact the Political Science Department or visit [http://www.memphis.edu/polisci/mock\\_trial.htm](http://www.memphis.edu/polisci/mock_trial.htm).

## Interdisciplinary Electives (12 hours)

Legal Studies students must also take at least 12 hours (four classes) of Interdisciplinary Electives. This course group is meant to offer students the freedom to shape their own learning experience while still adhering to a central theme of modern legal systems in society.

Students seeking to enroll in courses outside of University College must obtain the appropriate permits from the department offering the course. Note that all upper-division courses offered by the Fogelman College of Business and Economics require a permit (3000 or 4000-level ACCT, ECON, FIR, MGMT, MKTG). To request a permit for courses at Fogelman College, please visit

[fcbecad.memphis.edu/ugad/permits](http://fcbecad.memphis.edu/ugad/permits). Many upper-division courses in other departments also have prerequisites or permit restrictions. Students are responsible for knowing and satisfying all course requirements prior to enrollment. For specific information about course descriptions and prerequisites, please see the Undergraduate Catalog, which is available online at [www.memphis.edu/ugcatalog/courseDescrip/index.php](http://www.memphis.edu/ugcatalog/courseDescrip/index.php).

\*Legal Studies Students may receive degree credit for either LEGL 3485 - Real Estate Practices or FIR 4310 - Real Estate Law, but not both.

- ACCT 3011 - Business Law
- CJUS 3426 - Corrections in America
- CJUS 3510 - Law and Society
- CJUS 3521 - Constitutional Crmnl Procedure
- CJUS 4130 - Ethical Dilemmas/CJUS
- CJUS 4170 - Prevention/Deterrence Crime
- CJUS 4520 - Substantive Criminal Law
- CJUS 4531 - Issues/Constitutional Rights
  - COMM 4812 - Communications Law in Perf. Arts
- FIR 3310 - Real Estate Principles
- FIR 4011 - Retirement and Estate Planning
- FIR 4310 - Real Estate Law \*
- HIST 3840 - U S Constitutional History
- JRSM 4700 - Media Law
- MGMT 3215 - Management of Human Resources
- PADM 3601 - Public Admin
- PADM 4221 - Issues/Urban Admin
- PHIL 3411 - Contemporary Moral Problems
- PHIL 3511 - Ethical Theory
- PHIL 3514 - Biomedical Ethics
- PHIL 4551 - Social and Political Philosophy
- POLS 3402 - Legal/Political Thght Modern
- POLS 4200 - Envrmntl Law/Policy/Regulatr
- POLS 4211 - Const Law/National Powers
- POLS 4212 - Const Law Civil Liberty
- POLS 4222 - Urban Politics
- POLS 4405 - Origin/Dev Amer Pol Thought
- POLS 4415 - African-Am Pol Thght to 1900
- POLS 4416 - African-Am Pol Tht from 1900
- POLS 4504 - International Law
- SOCI 3541 - Criminology

## University College Requirements

### Thematic Studies (6 hours)

### Senior Project (3 hours)

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Experiential Learning Credit

Students may be granted credit for college-level knowledge related to their major area of study that they have gained from work experience, life experience, or non-college instruction. Students who would like an assessment of such learning must prepare a portfolio that describes and documents their learning experience. Portfolios are assessed by faculty who teach in the students' field of study.

Assessment by Portfolio is reserved for knowledge and competencies that do not readily fit into the Credit by Examination procedures.

For more information please visit the Experiential Learning website at

[http://www.memphis.edu/innovation/elc/experiential\\_learning.php](http://www.memphis.edu/innovation/elc/experiential_learning.php)

## Management - Human Resources Management Concentration, (B.B.A.)

### University General Education Program (41 hours)

See University General Education Program for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) with a minimum grade of "C", ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) are specified for the B.B.A. degree.

### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

### Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management

- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

## For Students Choosing a Major in Management With a Concentration in Human Resources Management:

A minimum of 24 upper division semester hours including

- MGMT 3215 - Management of Human Resources
- MGMT 4240 - Compensation Performance Appraisal
- MGMT 4260 - Employee Staffing/Training/Development
- MGMT 4420 - Organizational Behavior in Business
- MGMT 4461 - Managerial Leadership

either

- MGMT 4251 - Employee Relations

or

- MGMT 3812 - Managing Employee Wellness

either

- MGMT 4510 - International Business Communication

or

- MGMT 4810 - International Management

and either

- MGMT 4910 - Independent Study Management

or

- MGMT 4911 - Internship In Mgmt

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Management Sequence (concentration in Human Resources Management)

### Freshman Year

- ENGL 1010 - English Composition
    - History (3) \*
    - Humanities/Fine Arts (3) \*
    - Elective (1-3)
  - MATH 1710 - College Algebra (if needed)
  - ENGL 1020 - English Comp/Analysis
  - ECON 2010 - Intro to Macroeconomics
    - Humanities/Fine Arts (3) \*
  - MIS 2749 - Foundation/Information Systems
  - MATH 1830 - Elementary Calculus
- or
- MATH 1421 - Honors Calculus I
- or
- MATH 1910 - Calculus I

### Semester Totals 28-30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
  - ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
  - COMM 2381 - Oral Communication
    - Natural Science (4) \*

- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
  - History (3) \*
- ECON 2020 - Intro to Microeconomics
  - Elective (3)

## Semester Totals 32 hrs

## Junior Year

- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt
- SCMS 3711 - Business Analytics - Tools
- MGMT 3215 - Management of Human Resources
- MIS 3210 - Critical Thinking Using Analytics
- MGMT 4420 - Organizational Behavior in Business
- MGMT 4240 - Compensation Performance Appraisal
- FIR 3410 - Financial Management
- ACCT 3130 - Legal/Social/Political Environ
- MKTG 3010 - Principles of Marketing

## Semester Totals 30 hrs

## Senior Year

- MGMT 4510 - International Business Communication
- or
- MGMT 4810 - International Management
- MGMT 4260 - Employee Staffing/Training/Development
- MGMT 4461 - Managerial Leadership
- SCMS 3510 - Operations Management
  - Elective (3)
- MGMT 4251 - Employee Relations
- or
- MGMT 3812 - Managing Employee Wellness
- MGMT 4911 - Internship In Mgmt
- or
- MGMT 4910 - Independent Study Management



- Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Management, (B.B.A.)**

### University General Education Program (41 hours)

See University General Education Program for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) with a minimum grade of "C", ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) are specified for the B.B.A. degree.

### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

## For Students Choosing a Major in Management With No Concentration:

A minimum of 24 upper division semester hours including

- MGMT 3215 - Management of Human Resources
- MGMT 4420 - Organizational Behavior in Business
- MGMT 4461 - Managerial Leadership

and either

- MGMT 4510 - International Business Communication

or

- MGMT 4810 - International Management

## Additional Courses

The additional 12 hours of the 24 hour minimum for the major can be selected from the following:

- MGMT 3812 - Managing Employee Wellness
- MGMT 4240 - Compensation Performance Appraisal
- MGMT 4251 - Employee Relations
- MGMT 4260 - Employee Staffing/Training/Development
- MGMT 4481 - Teamwork/Group Dynamics in Organizations
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MGMT 4820 - Entrepreneurship
- MGMT 4910 - Independent Study Management
  - MGMT 4110-MGMT 4119
- MGMT 4911 - Internship In Mgmt

### A Maximum of 6 Hours From the Following Courses:

- HPRM 3330 - Managing Hotel/Resort Ops
- HPRM 3315 - Hospitality Human Resource Mgm
- HPRM 4350 - Properties Developmnt/Planning
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4470 - Essentials of Negotiation
- PADM 4226 - Intro Nonprofit Organizations
- COMM 4342 - Small Group Communication

### Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

### Typical 4-Year Management Sequence (no concentration)

#### Freshman Year

- ENGL 1010 - English Composition
  - History (3) \*
  - Humanities/Fine Arts (3) \*
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
- MIS 2749 - Foundation/Information Systems
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1421 - Honors Calculus I
  
- or
  
- MATH 1910 - Calculus I

## Semester Totals 28-30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
  - History (3) \*
- ECON 2020 - Intro to Microeconomics
  - Elective (3)

## Semester Totals 32 hrs

### Junior Year

- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt
- SCMS 3711 - Business Analytics - Tools
- MGMT 3215 - Management of Human Resources
- MIS 3210 - Critical Thinking Using Analytics
- MGMT 4420 - Organizational Behavior in Business
  - MGMT elective (3)
- FIR 3410 - Financial Management
- ACCT 3130 - Legal/Social/Political Environ
- MKTG 3010 - Principles of Marketing

## Semester Totals 30 hrs

### Senior Year

- MGMT 4510 - International Business Communication
- or

- MGMT 4810 - International Management
  - MGMT elective (3)
- MGMT 4461 - Managerial Leadership
- SCMS 3510 - Operations Management
  - Elective (3)
  - MGMT elective (3)
  - MGMT elective (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Manufacturing Technology Management, (Lambuth Campus Only) (B.P.S)**

The Bachelor of Professional Studies degree (BPS) with a concentration in Manufacturing Technology Management offers career and advancement opportunities in the manufacturing industry.

The interdisciplinary focus on manufacturing supervisory skills will assist students in advancing their manufacturing careers for those already working in the industry.

Students will learn skills in project planning and evaluation, work design improvement, production control, facility design, occupational safety, and statistical quality control. In addition, they will learn principles of supervision and other management skills.

Those currently in the industry also have the opportunity to use existing work experience for college credit through Experiential Learning Credit.

## **General Education (35-41 hours)**

Students must complete the 35-41 hours of general education requirements as outlined in the attached general education grid. Please refer to the General Education website at <http://www.memphis.edu/ugcatalog/graduation/gened.php> for specific requirements. Students with majors in University College are exempt from the History general education requirements if they completed one year of History in high school

## Coordinated Study (54 hours)

## Concentration Requirements (24 hours)

Take 18 hours from these courses:

- TECH 3440 - Project Plan/Cost Evaluation
- TECH 4381 - Principles of Supervision
- TECH 4460 - Work Design/Improvement
- TECH 4464 - Production Control Systems
- TECH 4466 - Facility Design
- TECH 4462 - Quality Improvement
- TECH 3386 - Occupational Safety

### Plus One of the Following:

- ELC 3300 - Professional competencies for Career Advancement

or

- UNIV 4110 - Internship

## Management Services (30 hours)

### Administration and Supervision (3 hours)

*Take one course from the following group:*

- MGMT 3110 - Organization and Mgmt
- PADM 3601 - Public Admin

### Organizational Systems (3 hours)

*Take one course from the following group:*

- MGMT 3215 - Management of Human Resources
- MGMT 4420 - Organizational Behavior in Business
- PADM 4226 - Intro Nonprofit Organizations
- PSYC 3508 - Indust/Organizatnl Psyc

### Marketing and Public Relations (3 hours)

*Take one course from the following group:*

- MKTG 3010 - Principles of Marketing
- PBRL 3400 - Survey of Public Relations

## Team and Organizational Relations (3 hours)

*Take one course from the following group:*

- COMM 4011 - Communication in Organizations
- COMM 4342 - Small Group Communication
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- COUN 4621 - Human Interactions
- COUN 4781 - Strategy/Crisis Intervention

## Written Communication (3 hours)

*Take one course from the following group:*

- ENGL 3601 - Technical and Profess Writing
- ENGL 3602 - Professional Editing
- ENGL 3603 - Engineering Communications
- ENGL 3604 - Persuasive Writing
- MGMT 3510 - Business Communications

## Social & Cultural Context (3 hours)

*Take one course from the following group:*

- CJUS 4180 - Corporate/White Collar Crime
- CJUS 4235 - Security Management
- COMM 3003 - Television and Culture
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 3831 - Marriage and Family

## Political & Economic Context (3 hours)

*Take one course from the following group:*

- ACCT 3130 - Legal/Social/Political Environ
  - ECON 3411 - Economics of Social Issues
  - ECON 4130 - Government Regulation of Business
- HIST 4824 - Business History
- POLS 4510 - Politics of Global Economy
- ESCI 4430 - Economic Geography

## Technology & Culture (3 hours)

Take one course from the following group:

- COMM 4014 - Communication on the Internet
- HIST 3035 - Technology/Culture Am History
- JRSM 3900 - Visual Media
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (Completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Marketing Management, (B.B.A.)

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

## Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:



- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

A Minimum of 24 Upper Division Semester Hours in Marketing Courses as Follows:

- SCMS 2610 - Introduction to Supply Chain Management
- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion
- MKTG 4080 - Marketing Research
- MKTG 4901 - Management of Marketing Strategies

and either

- MKTG 3410 - Building Buyer/Seller Relationships

or

- MKTG 4470 - Essentials of Negotiation

### Six Semester Hours Chosen by the Student From the Following:

- MKTG 3320 - Retailing Management
- MKTG 3340 - Principles of Social Media Marketing
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4230 - Services Marketing
- MKTG 4470 - Essentials of Negotiation
- MKTG 4530 - International Marketing
- MKTG 4630 - Social Commerce Strategies and Analytics
- MKTG 4911 - Marketing Internship
  - MKTG 4920-MKTG 4929
- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management

### Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

### Typical 4-Year Marketing Management Sequence:

#### Freshman Year

- ENGL 1010 - English Composition
    - Humanities/Fine Arts (3) \*
  - MIS 2749 - Foundation/Information Systems
    - Elective (1-3)
  - MATH 1710 - College Algebra (if needed)
  - ENGL 1020 - English Comp/Analysis
    - Elective (3)
    - Humanities/Fine Arts (3) \*
  - ECON 2020 - Intro to Microeconomics
  - MATH 1830 - Elementary Calculus
- or
- MATH 1421 - Honors Calculus I
- or
- MATH 1910 - Calculus I

## Semester Totals 28-30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - History (3) \*
- SCMS 2610 - Introduction to Supply Chain Management
- ECON 2010 - Intro to Macroeconomics
  - Natural Science (4) \*

## Semester Totals 32 hrs

### Junior Year

- MGMT 3510 - Business Communications
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion
  - MKTG major elective (3)
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt

## Semester Totals 30 hrs

### Senior Year

- History (3) \*
- MKTG 4080 - Marketing Research

- MKTG 3410 - Building Buyer/Seller Relationships
- or
- MKTG 4470 - Essentials of Negotiation
- SCMS 3510 - Operations Management
  - Elective (3)
  - MKTG major elective (3)
- MKTG 4901 - Management of Marketing Strategies
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Mathematical Sciences - Mathematics Concentration, (B.S.)**

Program objectives for a B.S. in Mathematical Sciences are to: (a) understand the notion of a real valued function; (b) understand the concept of differentiation and be able to apply the rules of differentiation to functions of one real variable. Be able to use these techniques to solve problems in optimization; (c) understand the use of vector analysis to describe the geometry of higher dimensional spaces; (d) understand how to extend the concepts of the calculus of functions of one variable to higher dimensions; (e) use matrices to solve systems of linear equations and to describe linear transformations; (f) understand abstract structures in mathematics; (g) be able to read and present mathematical proofs including an understanding of the basic types of proofs; (h) be able to formulate their own proofs of simple mathematical statements; (i) be able to use a computer to assist with the solution of mathematical problems; (j) Have advanced knowledge of at least one specialist area of mathematics: Statistics, Mathematics, or Teaching Mathematics.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Mathematical Sciences major:

#### **Mathematics:**

- MATH 1910 - Calculus I

## Natural Science:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## The Major (41-42 hours in addition to University General Education Program)

### Major Core (17 hours):

Completion of

- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra (majors are encouraged to consider the departmental honors program described below)

### Plus the Following Courses:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (these courses are included in the University General Education Program requirements).

### Concentration (21 -22 hours):

### Mathematics (21-22 hours):

- COMP 1900 - CS1: Intro Comp Science

or

- COMP 4001 - Computer Programming
  - 18 semester hours of upper division courses with departmental approval.

The Following Are Examples of Approved Course Selections.

1. Applied Mathematics
2. General Mathematics
3. Graduate Study in Mathematics
4. Secondary Mathematics Education
5. Actuarial Science

#### Note

All approved programs will include no more than 9 semester hours chosen from MATH 4607, MATH 4635, MATH 4636, MATH 4637, MATH 4640. Students are encouraged to work with their advisors to plan their programs.

#### Statistics (21 hours):

- COMP 4001 - Computer Programming
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
- MATH 4640 - Intro Probability Models

#### One of

- MATH 4607 - Intro SAS Programming
- or
- MATH 4637 - Intro/Stat Models/Analysis

#### 6 Additional Upper Division Hours Chosen From:

- MATH 4242 - Linear Algebra
- MATH 4261 - Abstract Algebra
- MATH 4350 - Intro Real Analysis I
- MATH 4351 - Intro Real Analysis II
- MATH 4361 - Complex Variables
- MATH 4391 - Partial Differential Eqns I
- MATH 4607 - Intro SAS Programming
- MATH 4637 - Intro/Stat Models/Analysis
- MATH 4643 - Intro Regression/Time Ser Anyl
- MATH 4721 - Numerical Analysis

## Additional Course (3 hours):

Each major must take one additional upper division MATH course.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Department of Mathematical Sciences offers an honors program in Mathematics and Statistics for the talented student. To be admitted into the program, an entering freshman must score at least 29 on the Math ACT, and have a high-school GPA of 3.50, although exceptions may be made by the freshman's advisor, based upon an interview at the time of initial registration.

Currently enrolled students may be admitted into the Honors Program upon an interview with the Departmental Honors Director. The basic requirements will be a 3.5 GPA on all MATH courses, an overall GPA of 3.25, and timely progress toward a degree. Such students may be admitted into MATH 1421, MATH 2421, or MATH 2422. Upon completion of the entry course with a grade of at least B, such students will retroactively receive credit for any previous course(s) in the Honors Sequence. A student **may not** enroll in MATH 3402 without having previously completed MATH 2422.

The successful candidate will complete the Major Core as listed about under item C, and complete one of the Areas of Concentration listed above, with the following exceptions and additions:

- In place of MATH 1910, MATH 1920, MATH 2110 and MATH 3242, the Honors student must complete the four-course sequence of Honors Mathematics courses (MATH 1421, MATH 2421, MATH 2422 and MATH 3402), and two semesters of the Mathematics Honors Seminar, MATH 3410 and MATH 3411.
- Upon successful completion of the courses listed above, the student shall be considered to have completed MATH 3242, **and** MATH 2120 for prerequisite and graduation purposes.
- The Honors student must take MATH 4402 - Senior Honors Seminar.
- Each of MATH 1421, MATH 2421, MATH 2422, MATH 3402, MATH 3410, MATH 3411, MATH 4402 must be completed with at least a grade of B.
- A GPA of 3.50 in all MATH courses must be maintained.

Upon completion of the program, the successful candidates will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Mathematical Sciences," and their diplomas and records at the University of Memphis will reflect this distinction.

## Mathematical Sciences - Second Major for Chemistry, Computer Science, Engineering, and Physics, (B.S.)

### Mathematical Sciences Major (B.S.)

Program objectives for a B.S. in Mathematical Sciences are to: (a) understand the notion of a real valued function; (b) understand the concept of differentiation and be able to apply the rules of differentiation to functions of one real variable. Be able to use these techniques to solve problems in optimization; (c) understand the use of vector analysis to describe the geometry of higher dimensional spaces; (d) understand how to extend the concepts of the calculus of functions of one variable to higher dimensions; (e) use matrices to solve systems of linear equations and to describe linear transformations; (f) understand abstract structures in mathematics; (g) be able to

read and present mathematical proofs including an understanding of the basic types of proofs; (h) be able to formulate their own proofs of simple mathematical statements; (i) be able to use a computer to assist with the solution of mathematical problems; (j) Have advanced knowledge of at least one specialist area of mathematics: Statistics, Mathematics, or Teaching Mathematics.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Mathematical Sciences major:

### Mathematics:

- MATH 1910 - Calculus I

### Natural Science:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## The Major (41-42 hours in addition to University General Education Program)

### Major Core (17 hours):

Completion of

- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra (majors are encouraged to consider the departmental honors program described below)



## Plus the Following Courses:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (these courses are included in the University General Education Program requirements).

## Concentration (21 -22 hours):

### Mathematics (21-22 hours):

- COMP 1900 - CS1:Intro Comp Science

or

- COMP 4001 - Computer Programming
  - 18 semester hours of upper division courses with departmental approval.

### The Following Are Examples of Approved Course Selections.

1. Applied Mathematics
2. General Mathematics
3. Graduate Study in Mathematics
4. Secondary Mathematics Education
5. Actuarial Science

### Note

All approved programs will include no more than 9 semester hours chosen from MATH 4607, MATH 4635, MATH 4636, MATH 4637, MATH 4640. Students are encouraged to work with their advisors to plan their programs.

### Statistics (21 hours):

- COMP 4001 - Computer Programming
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
- MATH 4640 - Intro Probability Models

One of

- MATH 4607 - Intro SAS Programming
- or
- MATH 4637 - Intro/Stat Models/Analysis

6 Additional Upper Division Hours Chosen From:

- MATH 4242 - Linear Algebra
- MATH 4261 - Abstract Algebra
- MATH 4350 - Intro Real Analysis I
- MATH 4351 - Intro Real Analysis II
- MATH 4361 - Complex Variables
- MATH 4391 - Partial Differential Eqns I
- MATH 4607 - Intro SAS Programming
- MATH 4637 - Intro/Stat Models/Analysis
- MATH 4643 - Intro Regression/Time Ser Anyl
- MATH 4721 - Numerical Analysis

Additional Course (3 hours):

Each major must take one additional upper division MATH course.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Department of Mathematical Sciences offers an honors program in Mathematics and Statistics for the talented student. To be admitted into the program, an entering freshman must score at least 29 on the Math ACT, and have a high-school GPA of 3.50, although exceptions may be made by the freshman's advisor, based upon an interview at the time of initial registration.

Currently enrolled students may be admitted into the Honors Program upon an interview with the Departmental Honors Director. The basic requirements will be a 3.5 GPA on all MATH courses, an overall GPA of 3.25, and timely progress toward a degree. Such students may be admitted into MATH 1421, MATH 2421, or MATH 2422. Upon completion of the entry course with a grade of at least B, such students will retroactively receive credit for any previous course(s) in the Honors Sequence. A student **may not** enroll in MATH 3402 without having previously completed MATH 2422.

The successful candidate will complete the Major Core as listed about under item C, and complete one of the Areas of Concentration listed above, with the following exceptions and additions:

- In place of MATH 1910, MATH 1920, MATH 2110 and MATH 3242, the Honors student must complete the four-course sequence of Honors Mathematics courses (MATH 1421, MATH 2421, MATH 2422 and MATH 3402), and two semesters of the Mathematics Honors Seminar, MATH 3410 and MATH 3411.

- Upon successful completion of the courses listed above, the student shall be considered to have completed MATH 3242, **and** MATH 2120 for prerequisite and graduation purposes.
- The Honors student must take MATH 4402 - Senior Honors Seminar.
- Each of MATH 1421, MATH 2421, MATH 2422, MATH 3402, MATH 3410, MATH 3411, MATH 4402 must be completed with at least a grade of B.
- A GPA of 3.50 in all MATH courses must be maintained.

Upon completion of the program, the successful candidates will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Mathematical Sciences," and their diplomas and records at the University of Memphis will reflect this distinction.

## Second Major in Mathematical Sciences for Majors in Chemistry, Computer Science, Engineering, and Physics (29-30 hours):

### Section A

- MATH 1910 - Calculus I
- MATH 1920 - Calculus II
- MATH 3242 - Intro Linear Algebra

### Section B

One of

- COMP 2700 - Discrete Structures
- MATH 2110 - Calculus III
- MATH 2702 - Intro Proof/Fundamental Math

### Section C

9 hours from upper division MATH courses approved by the Chair or Chair's designee of the Department of Mathematical Sciences with at least one course chosen from

- MATH 4022 - Fin Math I/Theory of Interest
- MATH 4083 - Dynamical Systems/Chaos
- MATH 4084 - Introduction to Graph Theory \*
- MATH 4085 - Introduction to Combinatorics \*
- MATH 4086 - Analytic Number Theory
- MATH 4242 - Linear Algebra
- MATH 4261 - Abstract Algebra \*\*
- MATH 4350 - Intro Real Analysis I \*\*
- MATH 4361 - Complex Variables
- MATH 4391 - Partial Differential Eqns I
- MATH 4411 - Topology \*\*
- MATH 4635 - Intro Probability Theory \*\*\*
- MATH 4721 - Numerical Analysis

## Note

\* Additional prerequisite: Either MATH 2702 or COMP 2700.

\*\* Additional prerequisite: MATH 2702.

\*\*\* Additional prerequisite: MATH 2120.

## Section D

6 additional hours of courses which may be chosen from either MATH and/or the student's major, approved by the Chair or Chair's designee of the Department of Mathematical Sciences.

## Typical 4-Year Mathematics Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
  - Social/Behavioral Sciences\* (3)
  - Elective (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
  - Natural Science\*\* (4)
  - Elective (3)

Semester Totals 30 hrs

### Sophomore Year

- History\* (3)
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
  - Natural Science\*\* (4)
  - Social/Behavioral Sciences\* (3)
- History\* (3)
- MATH 2702 - Intro Proof/Fundamental Math
- COMM 2381 - Oral Communication
  - Humanities/Fine Arts\* (3)

- MATH 2120 - Differential Equations

Semester Totals 32 hrs

## Junior Year

- MATH 3242 - Intro Linear Algebra
  - UD MATH (3)
  - UD Elective (3)
  - UD elective (3)
- COMP 4001 - Computer Programming
  - Humanities/Fine Arts\* (3)
  - UD elective (3)
  - Elective (3)
  - UD MATH (3)
  - UD MATH (3)

Semester Totals 30 hrs

## Senior Year

- UD MATH (3)
- UD MATH (3)
- UD MATH (3)
- UD MATH (3)
- Elective (3)
  
- Elective (3)
- Elective (3)
- UD elective (3)
- UD elective (3)
- Elective (1)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one Natural Science sequence: CHEM 1110/CHEM 1111 and CHEM 1120/CHEM 1121 , OR PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.

## Typical 4-Year Statistics Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
  - Social/Behavioral Sciences\* (3)
  - Elective (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
  - Natural Science\*\* (4)
  - Elective (3)

Semester Totals 30 hrs

### Sophomore Year

- History\* (3)
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
  - Natural Science\*\* (4)
  - Social/Behavioral Sciences\* (3)
  - History\* (3)
- MATH 2702 - Intro Proof/Fundamental Math
- COMM 2381 - Oral Communication
  - Humanities/Fine Arts\* (3)
- MATH 2120 - Differential Equations

Semester Totals 32 hrs

### Junior Year

- MATH 3242 - Intro Linear Algebra
  - UD MATH (3)
- COMP 4001 - Computer Programming
  - UD Elective (3)

- Elective (3)
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
  - Humanities/Fine Arts\* (3)
  - UD elective (3)
  - UD elective (3)

Semester Totals 30 hrs

## Senior Year

- MATH 4640 - Intro Probability Models
  - UD MATH\*\*\* (3)
  - Elective (3)
  - Elective (3)
  - UD elective (3)
- MATH 4607 - Intro SAS Programming
- or
- MATH 4637 - Intro/Stat Models/Analysis
  - UD MATH\*\*\* (3)
  - Elective (3)
  - UD elective (3)
  - Elective (1)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one Natural Science sequence: CHEM 1110/CHEM 1111 and CHEM 1120/CHEM 1121, OR PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.

\*\*\*Choose from MATH 4120/6120, MATH 4242, MATH 4261, MATH 4350, MATH 4351, MATH 4361, MATH 4391, MATH 4551, MATH 4607, MATH 4637, MATH 4643, MATH 4721

## Mathematical Sciences - Statistics Concentration, (B.S.)

### Mathematical Sciences Major (B.S.)

Program objectives for a B.S. in Mathematical Sciences are to: (a) understand the notion of a real valued function; (b) understand the concept of differentiation and be able to apply the rules of differentiation to functions of one real variable. Be able to use these techniques to solve problems in optimization; (c) understand the use of vector analysis to describe the geometry of higher dimensional spaces; (d) understand how to extend the concepts of the calculus of functions of one variable to higher dimensions; (e) use matrices to solve systems of linear equations and to describe linear transformations; (f) understand abstract structures in mathematics; (g) be able to read and present mathematical proofs including an understanding of the basic types of proofs; (h) be able to formulate their own proofs of simple mathematical statements; (i) be able to use a computer to assist with the solution of mathematical problems; (j) Have advanced knowledge of at least one specialist area of mathematics: Statistics, Mathematics, or Teaching Mathematics.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Mathematical Sciences major:

#### Mathematics:

- MATH 1910 - Calculus I

#### Natural Science:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II



## The Major (41-42 hours in addition to University General Education Program)

### Major Core (17 hours):

Completion of

- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra

### Plus the Following Courses:

(Your choice will satisfy the University General Education Program requirements for science).

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### Statistics (21 hours):

- COMP 4001 - Computer Programming
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
- MATH 4640 - Intro Probability Models

### One of

- MATH 4607 - Intro SAS Programming
- or
- MATH 4637 - Intro/Stat Models/Analysis

## 6 Additional Upper Division Hours Chosen From:

- MATH 4242 - Linear Algebra
- MATH 4261 - Abstract Algebra
- MATH 4350 - Intro Real Analysis I
- MATH 4351 - Intro Real Analysis II
- MATH 4361 - Complex Variables
- MATH 4391 - Partial Differential Eqns I
- MATH 4607 - Intro SAS Programming
- MATH 4637 - Intro/Stat Models/Analysis
- MATH 4643 - Intro Regression/Time Ser Anyl
- MATH 4721 - Numerical Analysis

## Additional Course (3 hours):

Each major must take one additional upper division MATH course.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Department of Mathematical Sciences offers an honors program in Mathematics and Statistics for the talented student. To be admitted into the program, an entering freshman must score at least 29 on the Math ACT, and have a high-school GPA of 3.50, although exceptions may be made by the freshman's advisor, based upon an interview at the time of initial registration.

Currently enrolled students may be admitted into the Honors Program upon an interview with the Departmental Honors Director. The basic requirements will be a 3.5 GPA on all MATH courses, an overall GPA of 3.25, and timely progress toward a degree. Such students may be admitted into MATH 1421, MATH 2421, or MATH 2422. Upon completion of the entry course with a grade of at least B, such students will retroactively receive credit for any previous course(s) in the Honors Sequence. A student **may not** enroll in MATH 3402 without having previously completed MATH 2422.

The successful candidate will complete the Major Core as listed about under item C, and complete one of the Areas of Concentration listed above, with the following exceptions and additions:

- In place of MATH 1910, MATH 1920, MATH 2110 and MATH 3242, the Honors student must complete the four-course sequence of Honors Mathematics courses (MATH 1421, MATH 2421, MATH 2422 and MATH 3402), and two semesters of the Mathematics Honors Seminar, MATH 3410 and MATH 3411.
- Upon successful completion of the courses listed above, the student shall be considered to have completed MATH 3242, **and** MATH 2120 for prerequisite and graduation purposes.
- The Honors student must take MATH 4402 - Senior Honors Seminar.
- Each of MATH 1421, MATH 2421, MATH 2422, MATH 3402, MATH 3410, MATH 3411, MATH 4402 must be completed with at least a grade of B.
- A GPA of 3.50 in all MATH courses must be maintained.

Upon completion of the program, the successful candidates will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Mathematical Sciences," and their diplomas and records at the University of Memphis will reflect this distinction.

## Typical 4-Year Statistics Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
  - Social/Behavioral Sciences\* (3)
  - Elective (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
  - Natural Science\*\* (4)
  - Elective (3)

Semester Totals 30 hrs

### Sophomore Year

- History\* (3)
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
  - Natural Science\*\* (4)
  - Social/Behavioral Sciences\* (3)
  - History\* (3)
- MATH 2702 - Intro Proof/Fundamental Math
- COMM 2381 - Oral Communication
  - Humanities/Fine Arts\* (3)
- MATH 2120 - Differential Equations

Semester Totals 32 hrs

### Junior Year

- MATH 3242 - Intro Linear Algebra
  - UD MATH (3)
- COMP 4001 - Computer Programming
  - UD Elective (3)
  - Elective (3)
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
  - Humanities/Fine Arts\* (3)
  - UD elective (3)

- UD elective (3)

Semester Totals 30 hrs

## Senior Year

- MATH 4640 - Intro Probability Models
  - UD MATH\*\*\* (3)
  - Elective (3)
  - Elective (3)
  - UD elective (3)
- MATH 4607 - Intro SAS Programming
- or
- MATH 4637 - Intro/Stat Models/Analysis
  - UD MATH\*\*\* (3)
  - Elective (3)
  - UD elective (3)
  - Elective (1)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one Natural Science sequence: CHEM 1110/CHEM 1111 and CHEM 1120/CHEM 1121, OR PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.

\*\*\*Choose from MATH 4120/6120, MATH 4242, MATH 4261, MATH 4350, MATH 4351, MATH 4361, MATH 4391, MATH 4551, MATH 4607, MATH 4637, MATH 4643, MATH 4721

## **Mechanical Engineering, (B.S.M.E.)**

University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

## Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

## Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

## Social/Behavioral Sciences

- ECON 2010 - Intro to Macroeconomics must be taken in addition to 3 hours from the other specified choices.

## Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History

Waived for B.S.E.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (26 hours)

### Mathematics (11 hours)

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
  - MATH 3120

### Natural Science (8 hours)

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab

### Collateral Courses (7 hours)

- CIVL 2131 - Statics

### One of the Following:

- EECE 2201 - Circuit Analysis I
- EECE 2203 - Circuit Analysis Lab

or

- EECE 2281 - Instrumentation Lab
- EECE 2283 - Electrical Engr/Instrumntation

### The Major (66 hours)

#### Completion of

- MECH 1310 - Intro/Mechanical Engineering
- MECH 1312 - Mech Engr Computing I
- MECH 1314 - Mech Engr Computing II
- MECH 2316 - Engineering Design Comm I
- MECH 2332 - Dynamics
- MECH 3311 - Engineering Thermodynamics I
- MECH 3312 - Engineering Thermodynamics II
- MECH 3316 - Engineering Design Comm II
- MECH 3320 - Engineering Materials
- MECH 3321 - Mechanics of Machines
- MECH 3322 - Mechanics of Materials
- MECH 3323 - Machine Design
- MECH 3325 - Materials Laboratory
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 3341 - Numerical/Statistical Methods

- MECH 3351 - Heat Transfer I
- MECH 3355 - Thermo/Heat Transfer Lab
- MECH 4300 - Prep/Professional Practice
- MECH 4314 - Senior Design I
- MECH 4319 - Engineering Econ/Project Mgmt
- MECH 4322 - System Dynamics
- MECH 4323 - Senior Design II
- MECH 4335 - System Dynamics Lab

## Electives (9 hours)

Nine (9) hours of electives approved by the student's academic advisor.

## Typical 4-Year Mechanical Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
- MECH 1310 - Intro/Mechanical Engineering
- MECH 1312 - Mech Engr Computing I
- ENGL 1020 - English Comp/Analysis
  - Natural Science (4) \*
- MATH 1920 - Calculus II
- MECH 1314 - Mech Engr Computing II
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I

### Semester Totals 32 hrs

### Sophomore Year

- MATH 2110 - Calculus III
  - PHYS 2120 - Sci/Engr Phys II/Calc (3-4)
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2131 - Statics
- MECH 2318 - Engr Design Communication
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- MECH 3322 - Mechanics of Materials
- EECE 2201 - Circuit Analysis I
- EECE 2203 - Circuit Analysis Lab
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American

## Semester Totals 31 hrs

## Junior Year

- Social Science (3)
- MECH 3311 - Engineering Thermodynamics I
- MECH 3320 - Engineering Materials
- MECH 3321 - Mechanics of Machines
- MECH 3325 - Materials Laboratory
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 3312 - Engineering Thermodynamics II
- MECH 3323 - Machine Design
- MECH 3341 - Numerical/Statistical Methods
- MECH 3351 - Heat Transfer I
- MECH 3355 - Thermo/Heat Transfer Lab
- ENGL 3603 - Engineering Communications

## Semester Totals 33 hrs

## Senior Year

- MECH 4319 - Engineering Econ/Project Mgmt
- MECH 4314 - Senior Design I
- MECH 4300 - Prep/Professional Practice
- MECH 4322 - System Dynamics
  - Humanities/Fine Arts (3) \*
  - MECH Elective (3)
- MECH 4335 - System Dynamics Lab
- MECH 4323 - Senior Design II
  - Technical elective (3) \*\*
  - MECH elective (3)
  - Humanities/Fine Arts (3) \*
- ECON 2010 - Intro to Macroeconomics



Semester Totals 32 hrs

Total Hours: 120

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

*\*\* An upper division course in engineering, mathematics, physics, or chemistry. Advisor's approval required.*

## **Music & Entertainment (Lambuth Campus Only), (B.P.S)**

The [Music and Entertainment](#) (ME) degree is an interdisciplinary program fusing three areas of study: music, business, and technology. This concentration will provide students an understanding of fundamentals in commercial music and will provide them the knowledge to gain employment in the entertainment field.

### University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

### Music Core (19 hrs)

*Courses with an \* have been approved only for Lambuth Campus*

- MUTC 3701 - Theory/Musicianship I \*
- MUTC 3702 - Theory/Musicianship II \*
- MUS 1030 - Introduction to Music
- MUHL 3303 - Western Music History
- MUHL 4805 - History of Rock and Roll
  - MUAP elective-Ensemble or Applied (4 hrs)

### Entertainment Core (18 hrs)

*Courses with an \* have been approved only for Lambuth Campus*

- MUID 3704 - Recording Studio Tech/Practice
- MUID 3705 - Cont Sngwrting/Prod Techniques
- MUID 4201 - Studies in Commercial Music \*
- MUID 4701 - Music Licensing/Publishing \*

- COMM/MUID/UNIV Elective in Entertainment
- UNIV 4110 - Internship (1-6 hrs)

## Business Core (18 hours)

- ACCT 2010 - Fundamentals of Acct I
- MGMT 3110 - Organization and Mgmt
- MKTG 3010 - Principles of Marketing
- PBRL 3400 - Survey of Public Relations

One course from:

- PBRL 3421 - Public Relations Writing
- ENGL 3601 - Technical and Profess Writing
  - Elective- 3 hours Business/Marketing/Mgmt Elective (Upper Division)

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Electives

Electives will be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## **Music - Commercial Music Performance Concentration. (B.M.)**

## University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commercial Music concentration. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

## The Major (85-90 hours)

### Major Core (36 - 43 hours)

#### Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

#### Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III

#### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration

- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

### Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

### Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

### Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

### History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

### Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

## Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

### With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

### Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

### Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Concentration (42 hours)

### Commercial Music Performance

- MUAP 1XX1 (1)
- MUAP 1XX2 (10)
- MUAP 4XX2 (4)

- MUAP 3103 - Commercial Music Combo
- MUAP 4895 - Sr Proj Jazz/Studio Perform
- MUID 2201 - Intro to Music Industry
- MUID 3103 - Contmp Songwrt/Prod Technique
- MUID 3905 - Digital Audio Workstations
- MUID 4840 - Entrepreneurship Comm Music
- MUTC 3301 - Commercial Music Arranging
- MUTC 3825 - Material/Techniques Improv I

## Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Commercial Music Performance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Social/Behavioral Sciences (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
- MUID 1001 - Intro Music Technology
  - MUAP (applied music) (2)
- MUAP 3103 - Commercial Music Combo
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences (3) \*
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
- MUAP 1116 - Jazz Class Piano
  - MUAP (applied music) (2)
  - MUAP 3103 - Commercial Music Combo (1)

### Semester Totals 30 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MUTC 2008 - Music Theory III

or

- MUTC 4210 - Music Theory: Popular Styles
- MUTC 2010 - Ear Training III
- MUTC 2103 - Theory Jazz/Pop/Commercial I
  - MUAP (ensemble) (1)
- MUID 2201 - Intro to Music Industry
  - MUAP (applied music) (2)
- MUAP 3103 - Commercial Music Combo
  - MATH (3) \*
  - History (3) \*
- MUTC 3301 - Commercial Music Arranging
- MUID 3103 - Contmp Songwrt/Prod Technique
  - MUAP (ensemble) (1)
  - MUAP (applied music) (2)
  - MUAP 3103 - Commercial Music Combo (1)

Semester Totals 32 hrs

## Junior Year

- Natural Science (4) \*
- COMM 2381 - Oral Communication
- MUSE 3700 - Basic Conducting
- MUTC 3825 - Material/Techniques Improv I
  - MUAP (ensemble) (1)
  - MUAP (applied music) (2)
- MUAP 3103 - Commercial Music Combo
  - Natural Science (4) \*
  - History (3) \*
- MUHL 3303 - Western Music History
- MUID 3905 - Digital Audio Workstations
  - MUAP (ensemble) (1)
  - MUAP (applied music) (1)
  - MUAP 3103 - Commercial Music Combo (1)

Semester Totals 32 hrs

## Senior Year

- Music Elective (3)
- MUHL Elective (3)
- MUID 4840 - Entrepreneurship Comm Music
  - MUAP (ensemble) (1)
  - MUAP (applied music) (2)
- MUAP 3103 - Commercial Music Combo
  - Elective (3)
- MUAP 4895 - Sr Proj Jazz/Studio Perform
  - MUHL Elective (3)
  - MUAP (ensemble) (1)
  - MUAP (applied music) (2)
  - MUAP 3103 - Commercial Music Combo (1)

Semester Totals 26 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Music - Composition Concentration. (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commercial Music concentration. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

The Major (85-90 hours)

Major Core (36 - 43 hours)

Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II



- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- or
- MUTC 4210 - Music Theory: Popular Styles
- MUTC 2010 - Ear Training III

### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

### Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

### Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

### Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

### History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony

- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

## Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

## Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

## With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Concentration (42 hours except Music Education)

### Composition:

Individual instruction in applied music to include two semesters of piano (8)

- MUTC 2501 - Composition
- MUTC 2502 - Composition minimum two semesters
- MUTC 4501 - Composition (minimum three semesters)
- MUTC 4511 - Electronic Music II
- MUTC 4512 - Electronic Music III

### Choose One of the Following Courses:

- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4209 - Advanced Orchestration
- MUTC 4599 - Senior Composition Recital
- MUTC 4106 - Composition Processes 20th Cent

## Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Composition Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (2)

- MUAP (large ensemble) (1)
- MUTC 2501 - Composition
- ENGL 1020 - English Comp/Analysis
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUID 1001 - Intro Music Technology

Semester Totals 26 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - Natural Science (4) \*
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
  - MUAP 2502 (3)
- MUAP 2107 - Class Instruction in Piano III
- MUTC 2502 - Composition
  - Natural Science (4) \*
  - MATH (3) \*
  - MUAP (large ensemble) (1)
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV
- MUAP 2108 - Class Instruct Piano IV
  - MUAP (applied music) (2)

Semester Totals 36 hrs

## Junior Year

- History (3) \*
- COMM 2381 - Oral Communication
- MUHL 3301 - History of Music to 1750
- MUTC 4209 - Advanced Orchestration
  - MUAP (large ensemble) (1)
- MUTC 4501 - Composition
- MUSE 3700 - Basic Conducting
  - History (3) \*
  - MUTC 420x (2)
- MUHL 3302 - History of Music Since 1750
- MUTC 4511 - Electronic Music II
  - MUAP (large ensemble) (1)
  - MUTC 4501 - Composition (3)

Semester Totals 32 hrs

## Senior Year

- Social/Behavioral Sciences (3) \*
- MUTC 4501 - Composition
- MUTC 4512 - Electronic Music III
  - Theory elective (3)
  - MUAP (large ensemble) (1)
- MUTC 4599 - Senior Composition Recital
  - MUHL elective (3) \*\*
  - MUAP (large ensemble) (1)
- MUTC 4106 - Composition Processes 20th Cent
  - Social/Behavioral Sciences (3) \*

Semester Totals 26 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one from MUHL 4008 MUHL 4009 MUHL 4010 MUHL 4013 MUHL 4406 MUHL 4407 MUHL 4800 MUHL 4801 MUHL 4805 MUHL 4806 MUHL 4807

## **Music - Jazz and Studio Composition/Arranging. (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commercial Music concentration. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

## The Major (85-90 hours)

### Major Core (36 - 43 hours)

#### Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

#### Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III

#### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

#### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

## Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

## Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

## Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

## History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

## Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

## Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

## With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Concentration (42 hours)

### Jazz and Studio Composition/Arranging

- MUAP 1312 - Commercial Music Piano

Pianists take:

- MUAP 1550 - Guitar Intro Instr

OR

- MUSE 1119 - Guitar/Music Teacher
- MUTC 2501 - Composition
- MUTC 2504 - Comp/Arrange Jazz/Commercial II
- MUTC 2511 - Electronic Music I
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3501 - Comp/Arrange/Jazz/Commercial III
- MUTC 3825 - Material/Techniques Improv I
- MUTC 4106 - Composition Processes 20th Cent



- MUTC 4503 - Comp/Arrange Jazz/Commercial IV
- MUTC 4896 - Sr Prj Jazz Studio/Comp Arrang
  - MUAP 1xx2 (5)

## Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Jazz Composition and Arranging Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Social/Behavioral Sciences (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (2)
- MUTC 1001 - Basic Music Theory
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences (3) \*
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
- MUTC 2501 - Composition
- MUAP 1116 - Jazz Class Piano

Semester Totals 29 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
  - MUAP (applied music) (3)
- MUTC 3825 - Material/Techniques Improv I
- MUTC 2103 - Theory Jazz/Pop/Commercial I
- MUAP 3012 - Univ Instrumentl Jazz Ensemble
- or

- MUAP 3013 - Univ Voice Jazz Ensemble
    - MATH (3) \*
    - Music elective (3)
  - MUAP 3103 - Commercial Music Combo
  - MUTC 3008 - Music Theory IV
  - MUTC 3009 - Ear Training IV
  - MUTC 3201 - Jazz Arrange/Orchestration
    - MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)
- or
- MUAP 3013 - Univ Voice Jazz Ensemble

## Semester Totals 32 hrs

## Junior Year

- Natural Science (4) \*
  - MUSE 3700 - Basic Conducting
  - MUAP 1312 - Commerical Music Piano
  - MUTC 2511 - Electronic Music I
  - COMM 2381 - Oral Communication
  - MUTC 2504 - Comp/Arrange Jazz/Commrcial II
  - MUAP 3012 - Univ Instrumentl Jazz Ensemble
- or
- MUAP 3013 - Univ Voice Jazz Ensemble
    - Natural Sciences (4) \*
    - History (3) \*
  - MUHL 3303 - Western Music History
    - MUAP 1312 - Commerical Music Piano (2)
    - MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)
- or
- MUAP 3013 - Univ Voice Jazz Ensemble (1)
  - MUTC 3501 - Comp/Arrang/Jazz/Comrcial III

## Semester Totals 31 hrs

## Senior Year

- History (3) \*
- MUTC 4503 - Comp/Arrange Jazz/Commrcial IV
  - Music Elective (3)
- MUAP 3012 - Univ Instrumentl Jazz Ensemble

or

- MUAP 3013 - Univ Voice Jazz Ensemble
  - MUHL Elective (3)
- MUAP 3103 - Commercial Music Combo
  - Music Elective (3)
  - MUAP 4896 (4)
- MUHL 4806 - History of Jazz
- MUTC 4106 - Composition Processes 20th Cent
  - MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)

or

- MUAP 3013 - Univ Voice Jazz Ensemble (1)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Music - Jazz and Studio Performance Concentration. (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commercial Music concentration. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

## The Major (85-90 hours)

### Major Core (36 - 43 hours)

#### Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

#### Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III

#### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

#### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

## Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

## Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

## Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

## History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

## Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

## Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

## With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Concentration (42 hours)

### Jazz and Studio Performance

- MUAP 3103 - Commercial Music Combo
  - 4xx2 (4)
- MUAP 4895 - Sr Proj Jazz/Studio Perform
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3825 - Material/Techniques Improv I
- MUTC 3826 - Material/Techniques Improv II
- MUTC 3827 - Material/Techniques Improv III

### Jazz Vocal Students Take

- MUHL 4016 - Jazz Vocal Styles instead of
- MUTC 3827 - Material/Techniques Improv III

## Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Jazz and Studio Performance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Social/Behavioral Sciences (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (2)
- MUAP 3012 - Univ Instrumentl Jazz Ensemble
- or
- MUAP 3013 - Univ Voice Jazz Ensemble
- MUID 1001 - Intro Music Technology
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences (3) \*
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
  - MUAP (applied music) (2)
  - MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)
- or
- MUAP 3013 - Univ Voice Jazz Ensemble (1)
- MUAP 1116 - Jazz Class Piano

### Semester Totals 30 hrs

### Sophomore Year

- History (3) \*
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
  - MUAP (applied music) (2)
- MUTC 3825 - Material/Techniques Improv I
- MUTC 2103 - Theory Jazz/Pop/Commercial I
- MUAP 3012 - Univ Instrumentl Jazz Ensemble

or

- MUAP 3013 - Univ Voice Jazz Ensemble
- MUAP 3103 - Commercial Music Combo
  - MATH (3) \*
  - History (3) \*
  - MUAP 3103 - Commercial Music Combo (1)
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV
- MUTC 3201 - Jazz Arrange/Orchestration
  - MUAP (applied music) (2)
  - MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)

or

- MUAP 3013 - Univ Voice Jazz Ensemble (1)

## Semester Totals 34 hrs

## Junior Year

- Natural Science (4) \*
- MUSE 3700 - Basic Conducting
- MUAP 3103 - Commercial Music Combo
- MUTC 3826 - Material/Techniques Improv II
- COMM 2381 - Oral Communication
  - MUAP (applied music) (2)
- MUAP 3012 - Univ Instrumentl Jazz Ensemble

or

- MUAP 3013 - Univ Voice Jazz Ensemble
  - Natural Sciences (4) \*
  - MUAP 3103 - Commercial Music Combo (1)
- MUHL 3303 - Western Music History
  - MUAP (2nd instrument) (1)
  - MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)

or

- MUAP 3103 - Commercial Music Combo (1)
- Elective (2)

- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American



Semester Totals 31 hrs

## Senior Year

- MUID 3827 (3)
- Music Elective (3)
- MUAP 3103 - Commercial Music Combo
- MUAP 3012 - Univ Instrumentl Jazz Ensemble
- or
- MUAP 3013 - Univ Voice Jazz Ensemble
- MUAP 4xx2 (2)
- MUHL Elective (3)
- Elective (3)
- MUAP 4895 - Sr Proj Jazz/Studio Perform
- MUHL 4806 - History of Jazz
  - MUAP 4xx2 (2)
  - MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)
- or
- MUAP 3013 - Univ Voice Jazz Ensemble (1)

Semester Totals 25 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Music - Music Education (Choral) Concentration,. (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commerical Music concentraton. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

## The Major (85-90 hours)

### Major Core (36 - 43 hours)

#### Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

#### Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III

#### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

#### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

## Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

## Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

## Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

## History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

## Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

## Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

## With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Music Education (47-48 hours):

### Core (32 hours):

- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- MUSE 4901 - Residency I
- MUSE 4999 - Professional Seminar
- MUSE 4405 - Matrl/Method Choral Mus 7-12
- EDPR 2111 - Development Across Lifespan
- MUSE 2002 - Foundations Music Ed
- MUAP 3999 - Junior Recital
- SPED 2000 - Foundation/Exceptional Learn
- MUSE 4911 - Residency II
- MUSE 4213 - Mat/Method/Elementary Music

### Choral Emphasis (21 hours):

- MUSE 1112 - Class Inst Voice

or

- MUAP 1610 - Voice Intro Instr

(Not required of students enrolled in applied voice)

- MUAP 2108 - Class Instruct Piano IV
- MUSE 4211 - Vocal Diction I
- MUSE 4701 - Choral Conducting

## Applied Music:

at least 2 hours at the upper division level (12)

- MUSE 4405 - Matr/Method Choral Mus 7-12

## Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Music Education (Choral) Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUID 1001 - Intro Music Technology
- ENGL 1020 - English Comp/Analysis
- MUSE 2002 - Foundations Music Ed
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- EDPR 2111 - Development Across Lifespan

## Semester Totals 31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MUTC 2008 - Music Theory III
- COMM 2381 - Oral Communication
- MUTC 2010 - Ear Training III
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUAP 2107 - Class Instruction in Piano III
- SPED 2000 - Foundation/Exceptional Learn
  - Natural Science (4) \*
- PSYC 1030 - General Psychology
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV
- MUAP 2108 - Class Instruct Piano IV
  - MUAP (ensemble) (1)
  - MUAP (applied music) (2)
- MUSE 3700 - Basic Conducting

## Semester Totals 34 hrs

### Junior Year

- MUSE 4213 - Mat/Method/Elementary Music
  - History (3) \*
- MUHL 3301 - History of Music to 1750
- MUSE 4701 - Choral Conducting
  - MUAP (applied music) (2)
  - MUAP (small ensemble) (1)
  - MUAP (large ensemble) (1)
- MUSE 4211 - Vocal Diction I
  - Social/Behavioral Sciences (3) \*
- ICL 3333 - Stdnt Assess/Inst Dec Mkng
- MUSE 4405 - Matr/Method Choral Mus 7-12
- MUHL 3302 - History of Music Since 1750
  - MUAP (applied music) (2)
  - MUAP (ensemble) (1)
- MUSE 4523 - Vocal Pedagogy
- MUAP 3999 - Junior Recital

Semester Totals 34 hrs

Senior Year

- MUSE 4901 - Residency I
  - History (3) \*
  - Natural Science (4) \*
  - MUAP (large ensemble) (1)
- MUSE 4999 - Professional Seminar
- MUSE 4911 - Residency II

Semester Totals 25 hrs

Total Hours: 124

Total Hours Required for Graduation: 124

\*Must satisfy University General Education Program Requirement

## **Music - Music Education (Instrumental) Concentration, (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commercial Music concentration. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

The Major (85-90 hours)

Major Core (36 - 43 hours)

Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

### Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
  - MUTC 1010 - Ear Training I
  - MUTC 1009 - Music Theory II
  - MUTC 1011 - Ear Training II
- or
- MUTC 2008 - Music Theory III
  - MUTC 4210 - Music Theory: Popular Styles
  - MUTC 2010 - Ear Training III

### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

### Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

### Jazz Take (6 hours)

- MUHL 3303 - Western Music History



- MUHL 4806 - History of Jazz

### Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

### History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

### Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

### Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

### With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Music Education: (47-48 hours)

### Core (32 hours):

- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- MUSE 4901 - Residency I
- MUSE 4999 - Professional Seminar
- EDPR 2111 - Development Across Lifespan
- MUSE 2002 - Foundations Music Ed
- MUAP 3999 - Junior Recital
- SPED 2000 - Foundation/Exceptional Learn
- MUSE 4911 - Residency II
- MUSE 4213 - Mat/Method/Elementary Music

### Instrumental Emphasis (22 hours):

- MUSE 1101 - Class Inst Brass
- MUSE 1103 - Class Inst Percussion
- MUSE 1104 - Class Inst Woodwinds
- MUSE 1116 - Class Instr Strings
- MUSE 4205 - Marching Band Technique
- MUSE 4403 - Material/Meth Inst Musc Grades 9-12
- MUSE 4700 - Instrumental Conducting

## Applied Music:

at least 2 hours at the upper division level (12)

## Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Music Education (Instrumental) Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUID 1001 - Intro Music Technology
- MUSE 1104 - Class Inst Woodwinds
- ENGL 1020 - English Comp/Analysis
- MUSE 2002 - Foundations Music Ed
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- EDPR 2111 - Development Across Lifespan
- MUSE 1103 - Class Inst Percussion

Semester Totals 33 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- SPED 2000 - Foundation/Exceptional Learn
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III

- MUAP 2107 - Class Instruction in Piano III
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUSE 1116 - Class Instr Strings
- COMM 2381 - Oral Communication
- PSYC 1030 - General Psychology
- MUSE 3700 - Basic Conducting
- MUSE 1101 - Class Inst Brass
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV
  - MUAP (applied music) (2)
  - MUAP (ensemble) (1)
  - Natural Science (4) \*

Semester Totals 35 hrs

## Junior Year

- MUSE 4213 - Mat/Method/Elementary Music
  - History (3) \*
- MUHL 3301 - History of Music to 1750
- MUSE 4700 - Instrumental Conducting
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUSE 4205 - Marching Band Technique
  - MUAP (ensemble) (1)
  - Social/Behavioral Sciences (3) \*
- MUSE 4403 - Material/Meth Inst Musc Grades 9-12
- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- MUHL 3302 - History of Music Since 1750
  - MUAP (ensemble) (1)
  - MUAP (applied music) (2)
- MUAP 3999 - Junior Recital

Semester Totals 32 hrs

## Senior Year

- MUSE 4901 - Residency I
  - History (3) \*
  - Natural Science (4) \*
  - MUAP (large ensemble) (1)
- MUSE 4999 - Professional Seminar
- MUSE 4911 - Residency II

Semester Totals 25 hrs

Total Hours: 125

Total Hours Required for Graduation: 125

\*Must satisfy University General Education Program Requirement

## **Music - Music History Concentration, (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commercial Music concentration. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

The Major (85-90 hours)

Major Core (36 - 43 hours)

Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II

- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- or
- MUTC 4210 - Music Theory: Popular Styles
- MUTC 2010 - Ear Training III

### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

### Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

### Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

### Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

### History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony

- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

## Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

## Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

## With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Concentration (42 hours except Music Education)

### Music History:

- Individual instruction in applied music (10)
- MUHL 4259 - Studies in Bibliography
  - Electives (11)
  - Advanced Music History (9)
  - Foreign Language: 6 semester hours in addition to requirements for admission (6)
- MUHL 4999 - Music History Senior Project

### Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Music History Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Social/Behavioral Sciences (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (2)
  - MUAP (small ensemble) (1)
- MUID 1001 - Intro Music Technology
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences (3) \*
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
  - MUAP (applied music) (2)
  - MUAP (ensemble) (1)



## Semester Totals 29 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - History (3) \*
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUAP 2107 - Class Instruction in Piano III
  - Foreign Language (3)
  - MATH (3) \*
- MUAP 2108 - Class Instruct Piano IV
  - History (3) \*
  - MUAP (ensemble) (1)
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV
  - MUAP (applied music) (2)
  - Foreign Language (3)

## Semester Totals 34 hrs

### Junior Year

- Natural Science (4) \*
- MUHL 3301 - History of Music to 1750
  - MUAP (applied music) (2)
- MUSE 3700 - Basic Conducting
  - MUAP (ensemble) (1)
- COMM 2381 - Oral Communication
  - Natural Sciences (4) \*
  - Concentration elective (3)
- MUHL 3302 - History of Music Since 1750
  - Concentration elective (2)
  - MUAP (ensemble) (1)
  - MUHL elective (3) \*\*\*

## Semester Totals 31 hrs

### Senior Year

- Concentration Elective (2)

- MUHL elective (3)
- MUHL elective (3)
- MUHL 4259 - Studies in Bibliography
  - MUAP (ensemble) (1)
- MUHL 4999 - Music History Senior Project
  - MUHL elective (3) \*\*\*
  - MUAP (ensemble) (1)
  - Concentration elective (2)
  - Concentration elective (2)
  - MUTC elective (3)

Semester Totals 26 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one from MUTC 3101 MUTC 3102 MUTC 3109 MUTC 3201 MUTC 4205, MUTC 4206 MUTC 4210

\*\*\*Choose one from MUHL 4008, MUHL 4009, MUHL 4010, MUHL 4013 MUHL 4406 MUHL 4407 MUHL 4800 MUHL 4801 MUHL 4805 MUHL 4806 MUHL 4807

## **Music - Performance Concentration, (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commerical Music concentratoin. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

The Major (85-90 hours)

Major Core (36 - 43 hours)

Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

### Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
  - MUTC 1010 - Ear Training I
  - MUTC 1009 - Music Theory II
  - MUTC 1011 - Ear Training II
- or
- MUTC 2008 - Music Theory III
  - MUTC 4210 - Music Theory: Popular Styles
  - MUTC 2010 - Ear Training III

### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

### Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

### Jazz Take (6 hours)

- MUHL 3303 - Western Music History

- MUHL 4806 - History of Jazz

### Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

### History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

### Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

### Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

### With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Concentration (42 hours except Music Education)

### Performance

Instruction in performance leading to the Bachelor of Music in Music with a concentration in Performance is provided for the following areas: Trumpet, Horn, Trombone, Tuba, and Euphonium (Brass Instruments); Piano, Harpsichord, and Organ (Keyboard Instruments); Percussion; Violin, Viola, Violoncello, Bass, Guitar, and Harp (String Instruments), Flute, Oboe, Clarinet, Saxophone, and Bassoon (Woodwind Instruments); Voice.

### Individual Instruction in Major Performance Area (24 hours)

### Instruction in Secondary Performance Area, Repertory, and/or Pedagogy (6 hours):

#### For Brass Instruments:

- MUHL 4020 - Solo Brass Literature
- MUSE 4514 - Brass Pedagogy

#### For Woodwind Instruments:

- MUSE 4521 - Woodwind Pedagogy
- MUAP 4004 - Orchestral Excerpts

In addition, Bassoon and Oboe take:

- MUAP 4263 - Reed Making

### Flute and Saxophone Players Should Take

- MUAP 3701 - Woodwind Ensemble instead of reed making

### For Percussion:

- MUHL 4030 - Percussion Repertory
- MUSE 4520 - Percussion Pedagogy

### For Bowed Strings:

6 hours chosen from

- MUHL 4500 - String Repertory
- MUAP 4004 - Orchestral Excerpts
- MUHL 4008 - The Symphony
- MUHL 4022 - Early Chamber Music
- MUHL 4011 - String Quartet Literature
- MUSE 4506 - Suzuki String Pedagogy I
  - and/or up to 2 hours of an approved secondary string instrument

### For Guitar:

- MUHL 4015 - Guitar Literature
- MUSE 4251 - Guitar Pedagogy

### For Voice:

- MUSE 4523 - Vocal Pedagogy
- MUHL 4002 - Song Repertory I
- MUHL 4003 - Song Repertory II

### For Piano:

- MUHL 4001 - Piano Repertory
- MUSE 4501 - Piano Pedagogy I
- MUSE 4505 - Collab Piano Technique

## Junior Recital (1 hour)

## Artist Recital (4 hours)

- MUAP 4999 - Artist Recital

## Small Ensembles (4-6 hours)

Four semesters of small ensembles, chosen from those listed under "Small Ensembles and Chamber Music" in consultation with the major advisor, is required. Piano performance students must take a minimum of four (4) semesters of MUAP 3301, Chamber Music for Keyboard, as part of the music core requirements for ensembles.

For students in voice, MUSE 4211 - Vocal Diction I, MUSE 4212 - Vocal Diction II, and a demonstrated proficiency equivalent to the first semester university level courses in French, German, and Italian.

For Piano performance students, the following is to be taken in lieu of the four hours of class piano: MUSE 3101 Functional Keyboard Skills, MUAP 1320, Harpsichord, and MUAP 1330, Organ.

## Music Electives

As needed to satisfy 120 hours degree requirement.

## Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Performance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Social/Behavioral Sciences (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (3)
  - MUAP (large ensemble) (1)
- MUID 1001 - Intro Music Technology
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences (3) \*
- MUTC 1009 - Music Theory II

- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
  - MUAP (applied music) (3)
  - MUAP (large ensemble) (1)

Semester Totals 31 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
  - MUAP (applied music) (3)
- MUAP 2107 - Class Instruction in Piano III
  - MUAP (ensemble) (1)
  - MUAP (small ensemble) (1)
  - History (3) \*
  - Small ensemble (1)
  - MATH (3) \*
  - History (3) \*
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV
- MUAP 2108 - Class Instruct Piano IV
  - MUAP (applied music) (3)
  - MUAP (ensemble) (1)

Semester Totals 32 hrs

## Junior Year

- Natural Science (4) \*
- Small ensemble (1)
- MUHL 3301 - History of Music to 1750
  - MUAP (ensemble) (1)
- COMM 2381 - Oral Communication
  - MUAP (applied music) (4)
  - Natural Science (4) \*
  - MUTC (3) \*\*
- MUHL 3302 - History of Music Since 1750
  - MUAP (applied music) (4)
  - MUAP (ensemble) (1)
- MUAP 3999 - Junior Recital



Semester Totals 32 hrs

## Senior Year

- MUHL Elective (3)
- Music Elective (3)
- MUAP (ensemble) (1)
- MUSE 3700 - Basic Conducting
  - MUAP (applied music) (4)
- MUAP 4999 - Artist Recital
  - Music Elective (3)
  - Music Elective (3)
  - UD elective (3)
  - MUAP (ensemble) (1)
  - MUAP (small ensemble) (1)

Semester Totals 25 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one from MUTC 3101 MUTC 3201 MUTC 3301 MUTC 4205 MUTC 4206 MUTC 4210

\*\*\*Choose one from MUHL 4008 MUHL 4010 MUHL 4013 MUHL 4406 MUHL 4407 MUHL 4800 MUHL 4801 MUHL 4805 MUHL 4806 MUHL 4807

## Clarinet Chooses from

- MUAP 3701 - Woodwind Ensemble
- MUAP 4004 - Orchestral Excerpts

## **Music Industry - Music Business Concentration, (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3303 and MUHL 48XX. Note the following B.M. degree with a major in Music Industry program specifications: (1) Music Business must complete ECON 2010 and ECON 2020 to fulfill the Social/Behavioral Sciences requirement; (2) for the mathematics requirement, Music Business must complete MATH 1530 and Recording Technology must complete MATH 1830; (3) PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121 (Natural Science requirement) is recommended for the Recording Technology concentration. The Humanities category is satisfied for students who meet all B.M. requirements.

## The Major (85 hours)

### Major Core (29 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III
- MUHL 3303 - Western Music History
  - MUAP xxxx (ensembles) (2)
- MUAP 1105 - Class Inst Piano I
- MUAP 1116 - Jazz Class Piano
  - Ixxx (applied instruction) (4)
- MUID 3103 - Contmp Songwrt/Prod Technique

### Choose One:

- MUHL 4801 - American Folk/Popular Music
- MUHL 4804 - Blues
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music
  - 50 concert/recital attendance requirements prior to graduation.

## Music Business (56 hours)

- ACCT 2010 - Fundamentals of Acct I
- ACCT 3011 - Business Law
- FIR 1220 - Personal Financial Management
- PBRL 3400 - Survey of Public Relations
- JRSM 3900 - Visual Media
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MKTG 3010 - Principles of Marketing
- MUID 1001 - Intro Music Technology

- MUID 2201 - Intro to Music Industry
- MUID 3105 - Music Marketing & Management
- MUID 3506 - Music Distribution
- MUID 4604 - Legal Aspects Music Industry
- MUID 4825 - Concerts and Touring
- MUID 4840 - Entrepreneurship Comm Music
- MUID 4850 - Record Company Operations I
- MUID 4851 - Record Company Operations II
- MUID 4898 - Sr Proj Music Bus/Rec Technlgy
- MUID 4899 - Internship

## Electives (0 - 3 hours)

Elective courses may be chosen to bring the total number of hours to 120.

## Typical 4-Year Music Business Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1530 - Prob/Statistics/Non Calculus
  - Natural Science (4) \*
- MUTC 1008 - Music Theory I
  - Applied music (1)
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
- ENGL 1020 - English Comp/Analysis
- MUTC 1009 - Music Theory II
  - Natural Science (4) \*
- MUAP 1116 - Jazz Class Piano
- MUID 2201 - Intro to Music Industry
  - MUAP (applied music) (1)
- MUTC 1011 - Ear Training II
- MUID 1001 - Intro Music Technology

### Semester Totals 32 hrs

### Sophomore Year

- MUTC 2008 - Music Theory III
- or
- MUTC 4210 - Music Theory: Popular Styles
  - History (3) \*
- ACCT 2010 - Fundamentals of Acct I

- MUAP (applied music) (1)
- MUAP Ensemble (1)
- ECON 2010 - Intro to Macroeconomics
- MUTC 2010 - Ear Training III
- COMM 2381 - Oral Communication
  - History (3) \*

- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
  - MUAP (applied music) (1)
- ECON 2020 - Intro to Microeconomics
  - Ensemble (1)

## Semester Totals 29 hrs

## Junior Year

- MKTG 3010 - Principles of Marketing
- ACCT 3011 - Business Law
- MUID 3506 - Music Distribution
- MUHL 3303 - Western Music History
- MUID 4604 - Legal Aspects Music Industry
- MGMT 3110 - Organization and Mgmt
- MUID 3105 - Music Marketing & Management
- MUID 3103 - Contmp Songwrt/Prod Technique
- MUID 4825 - Concerts and Touring
- PBRL 3400 - Survey of Public Relations

## Semester Totals 30 hrs

## Senior Year

- MUID 4840 - Entrepreneurship Comm Music
- MUID 4850 - Record Company Operations I
- FIR 1220 - Personal Financial Management
- MUID 4899 - Internship
- JRSM 3900 - Visual Media
- MUID 4851 - Record Company Operations II
- MGMT 3510 - Business Communications
- MUID 4898 - Sr Proj Music Bus/Rec Technlgy
  - MUHL (3) \*\*

## Semester Totals 29 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\* Choose one: MUHL 4801, MUHL 4804, MUHL 4805, MUHL 4806, MUHL 4807

## **Music Industry - Recording Technology Concentration, (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3303 and MUHL 48XX. Note the following B.M. degree with a major in Music Industry program specifications: (1) Music Business must complete ECON 2010 and ECON 2020 to fulfill the Social/Behavioral Sciences requirement; (2) for the mathematics requirement, Music Business must complete MATH 1530 and Recording Technology must complete MATH 1830; (3) PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121 (Natural Science requirement) is recommended for the Recording Technology concentration. The Humanities category is satisfied for students who meet all B.M. requirements.

The Major (85 hours)

Major Core (29 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III
- MUHL 3303 - Western Music History
  - MUAP xxxx (ensembles) (2)
- MUAP 1105 - Class Inst Piano I
- MUAP 1116 - Jazz Class Piano
  - Ixxx (applied instruction) (4)
- MUID 3103 - Contmp Songwrt/Prod Technique

### Choose One:

- MUHL 4801 - American Folk/Popular Music
- MUHL 4804 - Blues
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music
  - 50 concert/recital attendance requirements prior to graduation.

### Recording Technology (50 hours)

- MUID 2201 - Intro to Music Industry
- MUID 3800 - Recording Studio Technology
- MUID 3801 - Digital Data Structures
- MUID 3901 - Critical Listening I
- MUID 3902 - Critical Listening II
- MUID 3903 - Critical Listening III
- MUID 3905 - Digital Audio Workstations
- MUID 4604 - Legal Aspects Music Industry
- MUID 4800 - Basic Recording
- MUID 4802 - Advanced Recording
- MUID 4803 - Adv Mix/Master Audio
- MUID 4811 - Studio Maintenance Practicum
- MUID 4822 - Applied Lessons in Recording
- MUID 4830 - Trends Business Pract/Tech
- MUID 4833 - Applied Lessons in Mixing
- MUID 4840 - Entrepreneurship Comm Music
- MUID 4850 - Record Company Operations I
- MUID 4898 - Sr Proj Music Bus/Rec Technlgy
- MUID 4899 - Internship
- TECH 1811 - Electronic Circuit Technology
- TECH 2821 - Solid State Technology

### Recording Technology Elective Path (6 hours)

Students are to complete the elective hours in one academic area. Electives are to be chosen from an approved list of classes, which is available from the student's advisor.

### Electives (0 - 3 hours)

Elective courses may be chosen to bring the total number of hours to 120.

### Typical 4-Year Recording Technology Concentration Sequence

## Freshman Year

- ENGL 1010 - English Composition
- MATH 1830 - Elementary Calculus
  - Social/Behavioral Sciences (3) \*
- MUTC 1008 - Music Theory I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (1)
- MUTC 1010 - Ear Training I
- ENGL 1020 - English Comp/Analysis
- MUID 2201 - Intro to Music Industry
  - Social/Behavioral Sciences (3) \*
- MUAP 1116 - Jazz Class Piano
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  - MUAP (applied music) (1)
- TECH 1811 - Electronic Circuit Technology

Semester Totals 32 hrs

## Sophomore Year

- MUTC 2008 - Music Theory III
- or
- MUTC 4210 - Music Theory: Popular Styles
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- TECH 2821 - Solid State Technology
  - MUAP (applied music) (1)
- MUID 3800 - Recording Studio Technology
  - Music ensemble (1)
- MUID 3901 - Critical Listening I
- MUTC 2010 - Ear Training III
- MUID 4800 - Basic Recording
  - Music Ensemble (1)
- MUID 3905 - Digital Audio Workstations
- MUID 3801 - Digital Data Structures
  - MUAP (applied music) (1)
- MUID 3902 - Critical Listening II

Semester Totals 28 hrs

## Junior Year

- Elective (3)
- MUID 4811 - Studio Maintenance Practicum
- MUID 4822 - Applied Lessons in Recording
- MUID 4802 - Advanced Recording
- MUID 3903 - Critical Listening III
  - Natural Science (4) \*
- MUID 4604 - Legal Aspects Music Industry
  - Elective (3)
- MUID 4833 - Applied Lessons in Mixing
  - History (3) \*
- MUID 4803 - Adv Mix/Master Audio
- MUID 3103 - Contmp Songwrt/Prod Technique
- MUID 4899 - Internship

Semester Totals 31 hrs

## Senior Year

- MUID 4840 - Entrepreneurship Comm Music
  - History (3) \*
  - MUHL (3) \*\*
- MUID 4850 - Record Company Operations I
- MUID 4830 - Trends Business Pract/Tech
  - Natural Science (4) \*
- MUHL 3303 - Western Music History
- COMM 2381 - Oral Communication
- MUID 4898 - Sr Proj Music Bus/Rec Technlgy

Semester Totals 29 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\* Choose one: MUHL 4801, MUHL 4804, MUHL 4805, MUHL 4806, MUHL 4807

## Non-Profit Development and Administration, (B.P.S.)

The goal of these guidelines is to help persons understand the role of nonprofit organizations in society and to prepare them to organize, develop, and administer nonprofit organizations. Nonprofit organizations include educational, scientific, religious, and other charitable organizations, as well as private foundations, community-based organizations, professional and fraternal associations, and civic and social organizations. The guidelines are designed to serve persons who have worked, or who want to work, within the nonprofit sector as employees, or have served in the community as volunteers. Graduates may enter careers such as communications director, volunteer director, or program director for a nonprofit agency.



Objectives of the program include the study of (1) the historical and cultural context of nonprofit organizations, specifically their place within a market economy; (2) the characteristics of persons and communities served by nonprofit organizations; (3) legal, ethical, and policy issues which shape the governance, development, and operation of nonprofits; (4) relevant skills, including management of personnel, information, and finances, interpersonal communication, program evaluation, and marketing; and (5) special topics, including fundraising, philanthropy and volunteerism.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Coordinated Study (60 hours)

### Core Courses (15 hours)

- ANTH 4412 - Neighborhood Development
- or
- ANTH 3282 - American Communities
  - ECON 3411 - Economics of Social Issues
- MGMT 3110 - Organization and Mgmt
- PADM 3601 - Public Admin
- PADM 4226 - Intro Nonprofit Organizations

## Context Courses

### Historical Context

Take one course:

- HIST 3274 - Modern Islamic World
- HIST 3275 - History of Jewish People
- HIST 3881 - African American History
- HIST 4831 - History American Family
- HIST 4851 - History of Women in America
- HIST 4863 - History/Childhood in America
- HIST 4871 - U S Urban History

### Social, Political, Economic Context

Take 3 courses from at least two different disciplines:

- ANTH 4411 - Urban Anthropology
- CJUS 1100 - Intro/Criminal Justice
- COMM 4381 - Senior Capstone
- COUN 4611 - Intro to Counseling
- COUN 4781 - Strategy/Crisis Intervention
- COUN 4783 - Alcohol/Drug Abuse Services
- ECON 2010 - Intro to Macroeconomics
- PHIL 3511 - Ethical Theory
- POLS 3211 - State/Local Government
- POLS 3213 - Intro to Public Policy
- POLS 4222 - Urban Politics
- POLS 4223 - Issues/Urban Politics
- SOCI 3401 - Social Inequality
- SOCI 3422 - Racial/Ethnic Minorities
- SOCI 4442 - Sociology of Poverty
- SOCI 4541 - Sociology of Aging

## Nonprofit Work Setting

Take one course:

- ANTH 4253 - Anthropology of Religion
- ARTH 4382 - Professional Practices in Museums
- ARTH 4830 - Museums in Society
- ESCI 3451 - Intro/Urban Planning
  - POLS 4221 - Urban Administration
  - SLS 3103 - Outdoor Recreation and Education for Urban America
  - SLS 3205 - Area and Facility Management
  - SLS 3905 - Leisure and Recreation for People with Disabilities
  - SOCI 3860 - Sociology of Religion

## Skills for Administration & Community Development (21 Hours)

Take one course from each category:

### Marketing & Fund-raising

Take one course:

- FIR 4011 - Retirement and Estate Planning
- PBRL 3400 - Survey of Public Relations
- MKTG 3010 - Principles of Marketing
- MKTG 4230 - Services Marketing

### Human Resources

Take one course:

- COUN 4621 - Human Interactions
- MGMT 3215 - Management of Human Resources

- SLS 3204 - Org Analysis Sport/Leisure

## Program Evaluation

Take one course:

- ANTH 4010 - Ethnographic Methods
- COMM 3330 - Communication Research Methods
- PADM 4101 - Political Statistics
- SLS 3305 - Leisure/Recreation Prog Devlp
- SOCI 3311 - Social Statistics
- SOCI 3322 - Methods of Social Research

## Accounting

Take one course:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ACCT 3310 - Cost Accounting
- ACCT 4540 - Govt/Health/Non-Profit
- PADM 4227 - Issues/Nonprofit Admin
- SLS 3605 - Financial Management SLS

## Legal Environment

Take one course:

- ACCT 3011 - Business Law
- LEGL 2410 - Intro to Law
- POLS 3405 - Intro Law/Jurisprudence
- SLS 4205 - Legal Aspects SLM

## Communication

Take one course:

- COMM 4011 - Communication in Organizations
- COMM 4342 - Small Group Communication
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- ENGL 3601 - Technical and Profess Writing
- ENGL 3604 - Persuasive Writing
- MGMT 3510 - Business Communications

## Computer Use & Technology

Take one course:

- JRSM 3900 - Visual Media
- MIS 2749 - Foundation/Information Systems
- SLS 3005 - Computer Applctn Sport/Leisure

## Experiential Learning or Internship (6 Hours)

Any 6 hours from:

- PADM 4321 - Administrative Internship
- UNIV 3900 - Experiential Learning Adv

(See: <http://www.uc.memphis.edu/experiential.htm>)

- UNIV 4110 - Internship

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## **Nursing, (B.S.N.)**

## University General Education Program (41 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### Natural Science:

- BIOL 2010 - Anatomy/Physiology I \*
- BIOL 2011 - Anat/Physiology I Lab \*

- BIOL 2020 - Anatomy/Physiology II \*
- BIOL 2021 - Anat/Physiology II Lab \*

### Social/Behavioral Sciences:

- PSYC 1030 - General Psychology
- or
- SOCI 1010 - Introduction to Sociology

### Support Courses for Nursing Major (10 hours)

All support courses must be completed with a minimum cumulative grade of "C".

### Microbiology (4 hours):

Science courses must have a minimum cumulative grade point average of 2.66 and must have been completed in the past 7 years. Refer to Science Course Validation section below.

- BIOL 1230 - Microbiology
- BIOL 1231 - Microbiology Lab

### Nutrition (3 hours):

- NUTR 2202 - Nutrition
- or
- NUTR 3202 - Nutrition/Health Care

### Statistics (3 hours):

If MATH 1530 is used for math general education course and support course, the student will need an elective course for the additional 3 hours.

- MATH 1530 - Prob/Statistics/Non Calculus
- EDPR 4541 - Fundmntl/Applied Stat Method
  - SOCI 3311

with a minimum grade of "C"

## The Major (66 hours)

### Completion of

- NURS 3005 - Intro Professional Nursing
- NURS 3006 - Professional Nursing Seminar
- NURS 3105 - Foundations PT-Centered Care
- NURS 3106 - Foundational Nursing Skills
- NURS 3000 - Pharmacology in Nursing
- NURS 3101 - Health Assessment
- NURS 3103 - Health Assessment Lab
- NURS 3205 - Nurs Adult I/Common Hlth Alt
- NURS 3206 - Nursing Adult I/Practicum
- NURS 3127 - Mental Health Nursing
- NURS 3129 - Mental Health Nurs Practicum
- NURS 3217 - Nursing/Childbearing Family
- NURS 3219 - Nurs Childbearing Family Pract
- NURS 3227 - Pediatric Nursing
- NURS 3229 - Pediatric Nursing Practicum
- NURS 3230 - Gerontological Nursing
- NURS 3231 - Gerontological Nurs Practicum
- NURS 3305 - Nurs Adult II/Complex Hlt Alt
- NURS 3306 - Nurs Adult II/Complex Pract
- NURS 3400 - Clinical Pathophysiology
- NURS 4110 - Evidence Based Practice Nurs
- NURS 4127 - Community Health Nursing
- NURS 4129 - Community Hlth Nurs Practicum
- NURS 4205 - Transition Professional Nurs
- NURS 4206 - Transition Prof Nurs Practicum

### Elective (3 hours)

Any upper division course at the 3000 or 4000 level.

## Nursing Course Requirements - Basic Students/Accelerated BSN Option

### Completion of

- NURS 3005 - Intro Professional Nursing
- NURS 3006 - Professional Nursing Seminar
- NURS 3105 - Foundations PT-Centered Care
- NURS 3106 - Foundational Nursing Skills
- NURS 3000 - Pharmacology in Nursing
- NURS 3101 - Health Assessment
- NURS 3103 - Health Assessment Lab
- NURS 3205 - Nurs Adult I/Common Hlth Alt
- NURS 3206 - Nursing Adult I/Practicum
- NURS 3127 - Mental Health Nursing

- NURS 3129 - Mental Health Nurs Practicum
- NURS 3217 - Nursing/Childbearing Family
- NURS 3219 - Nurs Childbearing Family Pract
- NURS 3227 - Pediatric Nursing
- NURS 3229 - Pediatric Nursing Practicum
- NURS 3230 - Gerontological Nursing
- NURS 3231 - Gerontological Nurs Practicum
- NURS 3305 - Nurs Adult II/Complex Hlt Alt
- NURS 3306 - Nurs Adult II/Complex Pract
- NURS 3400 - Clinical Pathophysiology
- NURS 4110 - Evidence Based Practice Nurs
- NURS 4127 - Community Health Nursing
- NURS 4129 - Community Hlth Nurs Practicum
- NURS 4205 - Transition Professional Nurs
- NURS 4206 - Transition Prof Nurs Practicum

### Upper Division Elective (3 hours):

Any 3000-4000 course.

## Nursing Course Requirements - RN Students

### Nursing (31 hours):

- NURS 3005 - Intro Professional Nursing
- NURS 3006 - Professional Nursing Seminar
- NURS 3101 - Health Assessment
- NURS 3103 - Health Assessment Lab
- NURS 3400 - Clinical Pathophysiology
- NURS 3000 - Pharmacology in Nursing
- NURS 4110 - Evidence Based Practice Nurs
- NURS 4127 - Community Health Nursing
- NURS 4129 - Community Hlth Nurs Practicum
- NURS 4205 - Transition Professional Nurs
- NURS 4206 - Transition Prof Nurs Practicum

### Upper Division Elective (3 hours):

Any 3000-4000 course.

### Note

The remaining hours for the major requirements are fulfilled by validation.

Under the Tennessee Career Mobility Plan registered nurses who have graduated from Tennessee schools or out-of-state NLN accredited programs will be able to progress to the baccalaureate degree in nursing without testing to verify previous nursing education. Registered nurses articulating to the baccalaureate level may be awarded or transfer in nursing credits equivalent to approximately one year of nursing courses. For this to occur, a minimum grade of "C" must have been earned in previous nursing course work. Nursing credits transferred or awarded will be held in escrow. These credits will be placed on individual transcripts only after students have successfully completed 15 hours of nursing courses with a minimum grade of "C" in The Loewenberg College of Nursing. Non nursing credits are transferred according to university policies. Testing will be required for graduates of non NLN accredited programs or for students who have not been in active clinical practice in the past three years.

The following represent typical schedule plans for basic students.

## Basic BSN Students

### Freshman Year

- ENGL 1010 - English Composition
- BIOL 2010 - Anatomy/Physiology I
- or
- BIOL 2011 - Anat/Physiology I Lab
  - Humanities (3) \*
  - History (3) \*
  - Social/Behavioral Sciences (3) \*
- ENGL 1020 - English Comp/Analysis
- BIOL 2020 - Anatomy/Physiology II
- or
- BIOL 2021 - Anat/Physiology II Lab
  - History (3) \*
  - MATH (3) \*
  - Humanities (3) \*

Semester Totals 32 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- BIOL 1230 - Microbiology
- or
- BIOL 1231 - Microbiology Lab



- Social/Behavioral Sciences (3) \*
- NUTR 2202 - Nutrition
- or
- NUTR 3202 - Nutrition/Health Care
- COMM 2381 - Oral Communication
- NURS 3000 - Pharmacology in Nursing
- NURS 3400 - Clinical Pathophysiology
- NURS 3101 - Health Assessment
- NURS 3103 - Health Assessment Lab
- NURS 3105 - Foundations PT-Centered Care
- NURS 3106 - Foundational Nursing Skills

Semester Totals 30 hrs

## Junior Year

- NURS 3005 - Intro Professional Nursing
- NURS 3006 - Professional Nursing Seminar
- NURS 3127 - Mental Health Nursing
- NURS 3129 - Mental Health Nurs Practicum
- NURS 3205 - Nurs Adult I/Common Hlth Alt
- NURS 3206 - Nursing Adult I/Practicum
- NURS 4127 - Community Health Nursing
- NURS 4129 - Community Hlth Nurs Practicum
- NURS 4110 - Evidence Based Practice Nurs
- NURS 3217 - Nursing/Childbearing Family
- NURS 3219 - Nurs Childbearing Family Pract
- NURS 3230 - Gerontological Nursing
- NURS 3231 - Gerontological Nurs Practicum
  - Statistics (3)

Semester Totals 33 hrs

## Senior Year

- NURS 3305 - Nurs Adult II/Complex Hlt Alt
- NURS 3306 - Nurs Adult II/Complex Pract
- NURS 3227 - Pediatric Nursing
- NURS 3229 - Pediatric Nursing Practicum
  - Upper Div Elective (3)
- NURS 4205 - Transition Professional Nurs
- NURS 4206 - Transition Prof Nurs Practicum

## Semester Totals 25 hrs

### Note

\*Must satisfy University General Education Program Requirements

<sup>1</sup> Take one of the following: EDPR 4541, SOCI 3311, or any approved statistics course. If statistics was taken as your general education math, either MATH 1530, you may take an elective course.

## Progression Of Nursing Coursework:

All courses in group A must be completed before enrolling in any courses in group B. All courses in group B must be completed before enrolling in any courses in group C. All courses in group C must be completed before enrolling in any course in Group D. All courses in group D must be completed before enrolling in any course in Group E.

### Group A:

- NURS 3000 - Pharmacology in Nursing
- NURS 3101 - Health Assessment
- NURS 3103 - Health Assessment Lab
- NURS 3105 - Foundations PT-Centered Care
- NURS 3106 - Foundational Nursing Skills
- NURS 3400 - Clinical Pathophysiology

### Group B:

- NURS 3005 - Intro Professional Nursing
- NURS 3006 - Professional Nursing Seminar
- NURS 3127 - Mental Health Nursing
- NURS 3129 - Mental Health Nurs Practicum
- NURS 3205 - Nurs Adult I/Common Hlth Alt
- NURS 3206 - Nursing Adult I/Practicum
- NURS 4127 - Community Health Nursing
- NURS 4129 - Community Hlth Nurs Practicum

### Group C:

- NURS 4110 - Evidence Based Practice Nurs
- NURS 3230 - Gerontological Nursing
- NURS 3231 - Gerontological Nurs Practicum
- NURS 3217 - Nursing/Childbearing Family
- NURS 3219 - Nurs Childbearing Family Pract

## Group D:

- NURS 3227 - Pediatric Nursing \*
- NURS 3229 - Pediatric Nursing Practicum \*
- NURS 3305 - Nurs Adult II/Complex Hlt Alt
- NURS 3306 - Nurs Adult II/Complex Pract

## Group E:

- NURS 4205 - Transition Professional Nurs \*
- NURS 4206 - Transition Prof Nurs Practicum \*

## Note

\*Accelerated students only may take approved courses concurrently.

The following represent a sample full-time schedule for RN students:

## RN (Upper Division Requirements)

### Senior Year

\*Statistics prior to nursing courses.

- NURS 3005 - Intro Professional Nursing
- NURS 3006 - Professional Nursing Seminar
- NURS 3101 - Health Assessment
- NURS 3103 - Health Assessment Lab
- NURS 3400 - Clinical Pathophysiology
- NURS 3000 - Pharmacology in Nursing
- NURS 4127 - Community Health Nursing
- NURS 4129 - Community Hlth Nurs Practicum
- NURS 4110 - Evidence Based Practice Nurs
- NURS 4205 - Transition Professional Nurs
- NURS 4206 - Transition Prof Nurs Practicum
  - UD elective (3)

### Semester Totals 34 hrs

## Note

\* Take one of the following: EDPR 4541, PSYC 3001, or SOCI 3311, or any approved statistics course.

## Science Course Validation:

If seven years have lapsed since credit was earned in BIOL 2010/BIOL 2011 and BIOL 2020/BIOL 2021 (Anatomy and Physiology), or BIOL 1230/BIOL 1231 (Microbiology), the content is considered outdated, and students are required to either repeat the course(s) or validate currency of knowledge. Required validation of current science knowledge for RNs will occur through employer verification, repeating of course, taking a higher level science course in the same field, or obtaining a fiftieth (50th) percentile score or above on the NLN appropriate science test.

## Organizational Leadership, (B.P.S.)

Organizational Leadership is designed to (1) promote understanding of the nature of organizations and the fundamentals of administrative leadership; (2) allow students to reflect upon national and international organizational contexts and upon significant social and cultural issues raised in those contexts; and (3) promote skills in formal and interpersonal communication, including sensitivity to personal issues having an impact upon the quality of accomplishment in the work place.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Professional Core: Coordinated Study (33 hours)

**A course taken in one group will not be counted in another group of the Professional Core.**

### Administration and Supervision (3 hours)

Take one course from this group:

- TECH 4381 - Principles of Supervision
- MGMT 3110 - Organization and Mgmt
- PADM 3601 - Public Admin

### Organizational Systems (3 hours)

Take one course from this group:

- MGMT 3215 - Management of Human Resources
- MGMT 4420 - Organizational Behavior in Business
- PADM 4226 - Intro Nonprofit Organizations

## Statistical and Research Methods (3 hours)

Take one course from this group:

- EDPR 4541 - Fundmntl/Applied Stat Method
- PADM 4101 - Political Statistics
- POLS 4101 - Political Statistics
- SOCI 3311 - Social Statistics
- MATH 1530 - Prob/Statistics/Non Calculus

## Written Communications (3 hours)

Take one course from this group:

- ENGL 3601 - Technical and Profess Writing
- ENGL 3604 - Persuasive Writing
- PBRL 3421 - Public Relations Writing
- MGMT 3510 - Business Communications

## Team and Organizational Relations (3 hours)

Take one course from this group:

- COMM 4011 - Communication in Organizations
- COMM 4342 - Small Group Communication
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- COUN 4621 - Human Interactions
- COMM 4341 - Interpersonal Communication
- COMM 4380 - Communication and Conflict

## Political and International Context (3 hours)

Take one course from this group:

- ACCT 3130 - Legal/Social/Political Environ
- ACCT 3011 - Business Law
  - ECON 4130 - Government Regulation of Business
- HIST 3212 - Latin American Nations
  - HIST 3274 - Modern Islamic World
- HIST 3291 - Modern Asia
- HIST 3302 - Modern Europe 1800-Present
- HIST 3881 - African American History
- JOUR 4712 - Media and Cultures
- POLS 3213 - Intro to Public Policy
- POLS 3302 - West Europe Govt/Politics
  - POLS 3304 - African Politics
- POLS 3306 - Latin American Govt/Politics
- POLS 3309 - Govt/Politics of Mid East
- POLS 3509 - Contmp Prblm Intl Relation
  - POLS 4305 - Post-Soviet Governments and Politics

- POLS 4307 - Govt and Pol Communist China

## Leadership (15 hours)

Take 5 courses, no more than 3 courses from any one area:

- ACCT 3130 - Legal/Social/Political Environ \*
- COUN 4611 - Intro to Counseling
- COUN 4621 - Human Interactions \*
- COUN 4781 - Strategy/Crisis Intervention
  - ECON 3411 - Economics of Social Issues
- PBRL 3400 - Survey of Public Relations
- LEAD 3350 - The Adult Learner
  - METH 4381 - Principles of Supervision \*
- MGMT 3110 - Organization and Mgmt \*
- PADM 3601 - Public Admin \*
- PADM 4226 - Intro Nonprofit Organizations \*
- PSYC 3101 - Psychology of Personality
- PSYC 3106 - Social Psychology
  - SOCI 3422 - Racial and Ethnic Minorities
  - SOCI 3432 - Sociology of Gender
- UNIV 4110 - Internship

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Experiential Learning Credit

Students may be granted credit for college-level knowledge related to their major area of study that they have gained from work experience, life experience, or non-college instruction. Students who would like an assessment of such learning must prepare a portfolio that describes and documents their learning experience. Portfolios are assessed by faculty who teach in the students' field of study.

Assessment by Portfolio is reserved for knowledge and competencies that do not readily fit into the Credit by Examination procedures.

For more information please visit the Experiential Learning website at

[http://www.memphis.edu/innovation/elc/experiential\\_learning.php](http://www.memphis.edu/innovation/elc/experiential_learning.php)

## Philosophy, (B.A.)

The Department of Philosophy offers courses in all areas of philosophy, providing students the chance to investigate life's biggest questions: What is happiness? Is morality relative? What is justice, or freedom, or equality? What, and who, am I? Do I really have a race or a gender? Is my mind anything more than just the activity of my brain? Does God exist? And so on. The philosophy major is also an excellent preparation for a number of other careers from law to medicine to business to seminary. Year after year, philosophy majors demonstrate superior achievement on all standardized graduate tests including the GRE, LSAT, and MCAT. Philosophy is an especially good pre-law major, and our graduates are routinely admitted to their school of choice, including such top law schools as Harvard, Yale, the University of Virginia, and the University of Tennessee.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### The Major (30 hours)

Completion of 30 semester hours in philosophy courses including

- PHIL 1101 - Fundamental Issues/Philosophy

or

- PHIL 1102 - Values and Modern World

- PHIL 1611 - Elementary Logic
- PHIL 3001 - History of Ancient Philosophy
- PHIL 3002 - History of Modern Philosophy

- PHIL 3411 - Contemporary Moral Problems

or

- PHIL 3511 - Ethical Theory

and

- 15 additional upper division semester hours

To prepare philosophy students for success in a number of fields, the department offers courses in the following sub-divisions of philosophy

### Philosophy of Law/Political Philosophy

- PHIL 3411 - Contemporary Moral Problems
- PHIL 3511 - Ethical Theory
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3515 - Environmental Ethics
- PHIL 3516 - Philosophy of Law
- PHIL 4551 - Social and Political Philosophy

### Ethics/Social Philosophy

- PHIL 3411 - Contemporary Moral Problems
- PHIL 3452 - Feminist Theory
- PHIL 3511 - Ethical Theory
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics
- PHIL 3741 - African American Philosophy
- PHIL 4551 - Social and Political Philosophy

### Philosophy of Religion/Religious Studies

- PHIL 3411 - Contemporary Moral Problems
- PHIL 3451 - Existentialism
- PHIL 3511 - Ethical Theory
- PHIL 3701 - Human and the Divine
- PHIL 3702 - Philosophy of Religion
- PHIL 3721 - Chinese Philosophy

### Philosophy/Contemporary Culture

- PHIL 3411 - Contemporary Moral Problems
- PHIL 3451 - Existentialism
- PHIL 3452 - Feminist Theory
- PHIL 3511 - Ethical Theory
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3741 - African American Philosophy
- PHIL 3771 - Philosophy in Literature
- PHIL 3781 - Philosophy and Film
- PHIL 4441 - Recent Continental Philosophy
- PHIL 4671 - Aesthetics



## Philosophy of Science/Epistemology

- PHIL 3460 - Nature/Mind/Knowledge
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3515 - Environmental Ethics
- PHIL 3621 - Intermediate Logic
- PHIL 4421 - Philosophy of Mind
- PHIL 4422 - Recent Anglo American Phil
- PHIL 4632 - Advanced Logic
- PHIL 4661 - Philosophy of Science

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

This program is open to philosophy majors with a 3.0 overall average and a 3.5 average in philosophy. The student will complete, with a minimum grade of "B", a thesis submitted for credit in PHIL 4891. The thesis topic must be approved by the thesis director before the student registers for PHIL 4891.

Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Philosophy." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Typical 4-Year Philosophy Sequence

### Freshman Year

- ENGL 1010 - English Composition
    - Foreign Language/B.A. (3)
    - MATH (3-4) \*
  - PHIL 1101 - Fundamental Issues/Philosophy
- or
- PHIL 1102 - Values and Modern World
    - Elective (3)
  - ENGL 1020 - English Comp/Analysis
    - Foreign Language/B.A. (3)
  - PHIL 1611 - Elementary Logic
    - Social/Behavioral Sciences (3) \*
    - Elective (3)

## Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - History\*/Foreign Lang (3)
  - Elective (3)
- PHIL 3001 - History of Ancient Philosophy
  - Natural Science (4) \*
  - Social/Behavioral Sciences (3) \*
  - History\*/Foreign Lang (3)
  - UD PHIL (3)
- PHIL 3002 - History of Modern Philosophy
  - Natural Science (4) \*

## Semester Totals 32 hrs

### Junior Year

- Elective (3)
- COMM 2381 - Oral Communication
- PHIL 3411 - Contemporary Moral Problems
- or
- PHIL 3511 - Ethical Theory
  - History\*/Elective (3)
  - UD PHIL (3)
  - Fine Arts (3) \*
  - History\*/Elective (3)
  - UD PHIL (3)
  - UD Elective (3)
  - UD PHIL (3)

## Semester Totals 30 hrs

### Senior Year

- Elective (3)
- UD PHIL (3)
- UD Elective (3)
- UD Elective (3)

- UD Elective (3)
- UD Elective (3)
- UD Elective (3)
- Elective (3)
- Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Physical Education Teacher Education Major (BSEd)**

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

The Major (64-79 hours)

- EDPR 2111 - Development Across Lifespan
- ESMS 2015 - Resistance/Aerobic Training Applications
- ESMS 3853 - Motor Behavior
- IDT 3600 - Technology in Education
- PETE 2000 - Introduction to PETE
- PETE 2002 - Ed Games/Team Sport Skill
- PETE 2003 - Skill Comp Individual Sport
- PETE 2006 - Ed Gym/Movement Concepts
- PETE 2009 - Ed Dance/Movement Concepts
- PETE 2500 - Methods Techniques of Coaching
- PETE 3307 - Psychosocial Aspect of Sport
- PETE 3308 - Exceptional Learner Phys Ed
- PETE 3800 - Instr Strategies Phys Ed

School Physical Education Concentration (35 hours)

- HLSC 2100 - Wellness Concepts Practice
- ICL 3333 - Stdnt Assess/Inst Dec Mkng

- ESMS 3405 - Structure and Function of Anatomic Kinesiology
- ESMS 3700 - Exercise Physiology Introduction
- PETE 4201 - Curr/Integ Learn/EI PE Well
- PETE 4301 - Curr/Integ Learn/Sec PE/Well
- PETE 4401 - Learner Assessment PE/Well
- PETE 4501 - Residency I Practicum PE/Well
- PETE 4601 - Residency II Seminar PE/Well
- PETE 4701 - Residency II Practicum PE/Well
- PHED 1713 - Intermediate Swim **OR**
- PHED 1722 - Swim-Lifeguarding **OR**
- PHED 2703 - Teaching Swimming and WSI

## Community Physical Education Concentration (22 hours)

- HLSC 2100 - Wellness Concepts Practice
- PETE 3604 - Teach Phys Ed/Health/K-Middle
- PETE 4605 - Intern/PETE/Community PE
- PHED 1711 - Beginning Swimming I
- SOCI 3422 - Racial/Ethnc Minorities
- SLS 3103 - Outdoor Rec/Ed Urban America
- SLS 3305 - Leisure/Recreation Prog Devlp

## Electives (0-12 hours)

Electives selected in consultation with advisor to bring the total number of credit hours to 120.

## Typical 4-Year Physical Education Teacher Education (School Physical Education) Sequence

### Freshman Year

#### First Semester

- ENGL 1010 - English Composition

Natural Science\*

Mathematics\*

Social/Behavioral Sciences\*

Humanities/Fine Arts

## Second Semester

- ENGL 1020 - English Comp/Analysis
- PSYC 1030 - General Psychology

Natural Science\*

History\*

Humanities\*

Year Totals : 32 Hours

## Sophomore Year

### First Semester

- PETE 2000 - Introduction to PETE
- PETE 2009 - Ed Dance/Movement Concepts
- PETE 2003 - Skill Comp Individual Sport

Elective

- COMM 2381 - Oral Communication
- HLSC 2100 - Wellness Concepts Practice

### Second Semester

- PETE 2006 - Ed Gym/Movement Concepts
- PETE 2002 - Ed Games/Team Sport Skill
- EDPR 2111 - Development Across Lifespan
- ESMS 2015 - Resistance/Aerobic Training Applications
- PETE 2500 - Methods Techniques of Coaching
- PETE 3308 - Exceptional Learner Phys Ed

Year Totals : 33 Hours

## Junior Year

### First Semester

- IDT 3600 - Technology in Education
- PHED 1713 - Intermediate Swim \*\*
- ICL 3333 - Stdnt Assess/Inst Dec Mknng

- PETE 3307 - Psychosocial Aspect of Sport
- ESMS 3405 - Structure and Function of Anatomic Kinesiology

## Second Semester

- PETE 3800 - Instr Strategies Phys Ed
- ESMS 3700 - Exercise Physiology Introduction
- ENGL 2201 - Literary Heritage (or ENGL 2202)
  - History\*
- ESMS 3853 - Motor Behavior

Year Totals : 29 Hours

## Senior Year

### First Semester

- PETE 4501 - Residency I Practicum PE/Well
- PETE 4201 - Curr/Integ Learn/EI PE Well
- PETE 4301 - Curr/Integ Learn/Sec PE/Well
- PETE 4401 - Learner Assessment PE/Well

### Second Semester

- PETE 4601 - Residency II Seminar PE/Well
- PETE 4701 - Residency II Practicum PE/Well

Year Totals : 26 Hours

## Typical 4-Year Physical Education Teacher Education (Community Physical Education) Sequence

### Freshman Year

#### First Semester

- ENGL 1010 - English Composition
  - Natural Science\*

- Mathematics\*
- Humanities/Fine Arts\*
- Social/Behavioral Sciences\*

## Second Semester

- Natural Science\*
- ENGL 1020 - English Comp/Analysis
  - Humanities/Fine Arts\*
  - History\*
- PSYC 1030 - General Psychology

Semester Totals: 32 hrs

## Sophomore Year

### First Semester

- HLSC 2100 - Wellness Concepts Practice
- PETE 2000 - Introduction to PETE
- PETE 2003 - Skill Comp Individual Sport
- PETE 2009 - Ed Dance/Movement Concepts
- PETE 3604 - Teach Phys Ed/Health/K-Middle

### Second Semester

- EDPR 2111 - Development Across Lifespan
- PETE 2006 - Ed Gym/Movement Concepts
- PETE 2500 - Methods Techniques of Coaching
- ESMS 2015 - Resistance/Aerobic Training Applications
- ENGL 2201 - Literary Heritage (or ENGL 2202)
  - Elective (2)

Semester Totals: 31 hrs

## Junior Year

### First Semester

- PETE 3307 - Psychosocial Aspect of Sport
- SLS 3305 - Leisure/Recreation Prog Devlp

- COMM 2381 - Oral Communication
  - Elective (3)
- IDT 3600 - Technology in Education

## Second Semester

- PETE 3800 - Instr Strategies Phys Ed
- SLS 3103 - Outdoor Rec/Ed Urban America
- PHED 1711 - Beginning Swimming I
- ESMS 3853 - Motor Behavior
- PETE 3308 - Exceptional Learner Phys Ed

Semester Totals: 29 hrs

## Senior Year

### First Semester

- SOCI 3422 - Racial/Ethnc Minorities
  - Upper Division Electives (12)\*\*

### Second Semester

- PETE 4605 - Intern/PETE/Community PE
  - Elective\*\* (4)

Semester Totals: 28 hrs

**Total Hours Required for Graduation: 120**

\*Must satisfy University General Education Program Requirement

\*\* Swimming credit can be substituted with advanced courses in swimming. CPR Certification required for Student Teaching. Course not required but advised.



## Physics - Applied Physics Concentration, (B.S.)

### Physics Major (B.S.)

Program objectives for a B.S. in Physics are: (a) Acquire knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving sessions.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

#### Mathematics

- MATH 1910 - Calculus I

#### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

### The Major: (59-66 hours in addition to University General Education Program)

Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4510 - Thermal and Statistical Phys

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses

## Applied Physics (21 hours):

- PHYS 2990 - Research in Physics I
- PHYS 3990 - Research in Physics II
- PHYS 4211 - Waves and Optics
- PHYS 4410 - Intro Quantum Theory
- MECH 1314 - Mech Engr Computing II
- PHYS 4230 - Electronics

## Plus 3 Credit Hours Selected From the Following List of Courses:

- PHYS 3060 - Advanced Physics Methodology
- PHYS 4230 - Electronics
- PHYS 4420 - Intro Computational Physics
- PHYS 4720 - Materials Physics
- PHYS 4820 - Materials Physics Lab
- PHYS 4610 - Solid State Physics
- PHYS 4620 - Device Physics and Microfabric
- CIVL 2131 - Statics
- MECH 2332 - Dynamics
- MECH 3322 - Mechanics of Materials
- MECH 3301 - Engineering Analysis
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 3341 - Numerical/Statistical Methods
- MECH 3351 - Heat Transfer I
- MECH 3355 - Thermo/Heat Transfer Lab
- MECH 4393 - Appld Finite Element Analysis

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Typical 4-Year Physics Sequence Applied Physics Concentration

### Freshman Year

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- MATH 1910 - Calculus I
- ENGL 1010 - English Composition
  - Elective (3)
- EECE 1202 - Elec/Comp Engr Concepts
  
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- MATH 1920 - Calculus II
- MECH 1314 - Mech Engr Computing II
- ENGL 1020 - English Comp/Analysis
- PHYS 2990 - Research in Physics I
  - Elective (1)

Semester Totals 29 hrs

### Sophomore Year

- PHYS 2130 - Intermediate Physics
- MATH 2110 - Calculus III
- EECE 2201 - Circuit Analysis I
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- PHYS 4230 - Electronics
  
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- MATH 2120 - Differential Equations
  - UD PHYS/CIVL/MECH\*\*
  - Social/Behavioral Science

## Semester Totals 31 hrs

### Junior Year

- PHYS 3111 - Mechanics I
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- ENGL 2201 - Literary Heritage \*

or

- ENGL 2202 - Lit Heritage: African-American \*
  - History (3) \*
  - UD elective (3)
- PHYS 3211 - Electricity/Magnetism I
- PHYS 3990 - Research in Physics II
- COMM 2381 - Oral Communication \*
  - History (3) \*
  - UD elective (3)

## Semester Totals 30 hrs

### Senior Year

- PHYS 4211 - Waves and Optics
  - UD PHYS/CIVL/MECH
  - Humanities\*
  - Elective (3)
- PHYS 4410 - Intro Quantum Theory
- PHYS 4510 - Thermal and Statistical Phys
  - UD PHYS/CIVL/MECH
  - Humanities\*
  - Social/Behavioral Sciences\*
  - Elective (3)

## Semester Totals 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*One of PHYS 3060, PHYS 4230, PHYS 4420, PHYS 4720, PHYS 4820, PHYS 4610, PHYS 4620, CIVL 2131, MECH 2332, MECH 3322, MECH 3301, MECH 3331, MECH 3335, MECH 3341, MECH 3351, MECH 3355, MECH 4393.

## Physics - General Physics Concentration, (B.S.)

### Physics Major (B.S.)

Program objectives for a B.S. in Physics are: (a) Acquire knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving sessions.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

#### Mathematics

- MATH 1910 - Calculus I

#### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

### The Major: (59-66 hours in addition to University General Education Program)

Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics

- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses

## General Physics (21 hours):

- PHYS 2990 - Research in Physics I
- PHYS 3060 - Advanced Physics Methodology
- PHYS 3990 - Research in Physics II
- PHYS 4410 - Intro Quantum Theory
- PHYS 4420 - Intro Computational Physics
- PHYS 4211 - Waves and Optics
  - plus six (6) hours of upper division PHYS courses.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Typical 4-Year Physics Sequence General Physics Concentration

### Freshman Year

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- MATH 1910 - Calculus I
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 1010 - English Composition
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- MATH 1920 - Calculus II
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- ENGL 1020 - English Comp/Analysis

Semester Totals 30 hrs

### Sophomore Year

- PHYS 2130 - Intermediate Physics
- MATH 2110 - Calculus III
- PHYS 2990 - Research in Physics I
- COMM 2381 - Oral Communication
  - Elective (3)
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3010 - Intro Modern Physics
- MATH 2120 - Differential Equations
  - Elective (3)
  - Social/Behavioral Sciences (3) \*

Semester Totals 30 hrs

### Junior Year

- PHYS 3111 - Mechanics I
  - PHYS 3060 - Advanced Physics Methodology
  - PHYS 3990 - Research in Physics II
    - History (3) \*
    - UD Elective (1)
  - ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American

- PHYS 3211 - Electricity/Magnetism I
- PHYS 4420 - Intro Computational Physics
  - History (3) \*
  - Humanities (3) \*
  - Social/Behavioral Sciences (3) \*

Semester Totals 30 hrs

## Senior Year

- PHYS 4410 - Intro Quantum Theory
- PHYS 4211 - Waves and Optics
  - UD elective (3)
  - UD PHYS (3)
  - Elective (3)
- PHYS 4510 - Thermal and Statistical Phys
  - UD PHYS (3)
  - Humanities (3) \*
  - UD Elective (3)
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Physics - Materials Science Concentration, (B.S.)

### Physics Major (B.S.)

Program objectives for a B.S. in Physics are: (a) Acquire knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving sessions.



## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

### Mathematics

- MATH 1910 - Calculus I

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

## The Major: (59-66 hours in addition to University General Education Program)

Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses

### Materials Science (21 hours):

- PHYS 2990 - Research in Physics I
- PHYS 3990 - Research in Physics II
- PHYS 4410 - Intro Quantum Theory
- PHYS 4610 - Solid State Physics
- PHYS 4720 - Materials Physics
- PHYS 4820 - Materials Physics Lab
- PHYS 4994 - Research in Materials Physics

## Plus One of

- PHYS 4020 - Soft Matter/Biological Physics
    - PHYS 4060
  - PHYS 4230 - Electronics
  - PHYS 4420 - Intro Computational Physics
  - PHYS 4620 - Device Physics and Microfabric
- ;
- MECH 3320 - Engineering Materials
  - MECH 3322 - Mechanics of Materials
  - CIVL 3322 - Mechanics of Materials

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Typical 4-Year Physics Sequence Materials Science Concentration

### Freshman Year

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- MATH 1910 - Calculus I
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 1010 - English Composition
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- MATH 1920 - Calculus II
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- ENGL 1020 - English Comp/Analysis

Semester Totals 30 hrs

## Sophomore Year

- PHYS 2130 - Intermediate Physics
- MATH 2110 - Calculus III
- COMM 2381 - Oral Communication
  - Elective (3)
- PHYS 2990 - Research in Physics I
- PHYS 3011 - Methods of Theoretical Phys I
- MATH 2120 - Differential Equations
- PHYS 3010 - Intro Modern Physics
  - Humanities (3) \*
  - Social/Behavioral Sci (3) \*

UD Elective (1)

Semester Totals 31 hrs

## Junior Year

- PHYS 3111 - Mechanics I
    - UD PHYS/MECH/CIVL (3) \*\*
    - Elective (3)
  - ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - PHYS 3990 - Research in Physics II
  - PHYS 3211 - Electricity/Magnetism I
  - PHYS 4510 - Thermal and Statistical Phys
  - PHYS 4720 - Materials Physics
    - History (3) \*
    - Elective (3)

Semester Totals 29 hrs

## Senior Year

- PHYS 4410 - Intro Quantum Theory  
History\*
- PHYS 4820 - Materials Physics Lab
  - Social/Behavioral Sciences (3) \*
  - UD Elective (3)
- PHYS 4610 - Solid State Physics
- PSYC 4994 - Senior Thesis
  - Humanities (3) \*
  - UD Elective (3)
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*One of PHYS 4020, 4060, PHYS 4230, PHYS 4420, PHYS 4620, MECH 3320, CIVL 3322, MECH 3322

## **Physics - Physics for Medical Sciences Concentration, (B.S.)**

### Physics Major (B.S.)

Program objectives for a B.S. in Physics are: (a) Acquire knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving sessions.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

## Mathematics

- MATH 1910 - Calculus I

## Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

## The Major: (59-66 hours in addition to University General Education Program)

Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses

## Physics for Medical Sciences (25 hours):

- PHYS 4040 - Medical Physics
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM

- CHEM 4511 - Biochemistry I
- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab
- BIOL 3130 - Cell Biology

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Typical 4-Year Physics Sequence Physics for Medical Sciences Concentration

### Freshman Year

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- MATH 1910 - Calculus I
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 1010 - English Composition
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- MATH 1920 - Calculus II
- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ENGL 1020 - English Comp/Analysis

## Semester Totals 30 hrs

### Sophomore Year

- PHYS 2130 - Intermediate Physics
- MATH 2110 - Calculus III
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- COMM 2381 - Oral Communication
- PHYS 3011 - Methods of Theoretical Phys I
- MATH 2120 - Differential Equations
- PHYS 3010 - Intro Modern Physics
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab

## Semester Totals 28 hrs

### Junior Year

- PHYS 3111 - Mechanics I
  - CHEM 3310 - Foundations/Organic Chemistry
  - CHEM 3301 - Foundations/Organic Chem Lab
  - BIOL 3130 - Cell Biology
    - History (3) \*
    - Elective (3)
  - PHYS 3211 - Electricity/Magnetism I
  - PHYS 4040 - Medical Physics
    - History (3) \*
  - ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
    - UD Elective (3)

## Semester Totals 31 hrs

### Senior Year

- CHEM 3511 - Foundations/Bioorganic CHEM
- CHEM 3501 - Foundation/Bioorganic Chem Lab
  - Humanities (3) \*
  - UD PHYS (3)
  - Social/Behavioral Sciences (3) \*
- CHEM 4511 - Biochemistry I
  - Humanities (3) \*

- Social/Behavioral Sciences (3) \*
- UD Elective (3)
- PHYS 4510 - Thermal and Statistical Phys

Semester Totals 31 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Physics - Second Major for Engineering Students, (B.S.)**

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

### Mathematics

- MATH 1910 - Calculus I

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

The Major: (59-66 hours in addition to University General Education Program)

Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I



- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4211 - Waves and Optics
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Second Major for Engineering Students

A total of twenty-nine (29) semester hours beyond PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121, many of which will count toward the engineering degree or are already required by the engineering major. Since Biomedical, Civil, Computer, Electrical, and Mechanical engineering students take different courses to satisfy their degree requirements, the program for the second major in physics is different for each engineering discipline. For details, please contact the Department of Physics and Materials Science or the department's web site at:

[http://www.memphis.edu/physics/undergraduate/2nd\\_major\\_requirements.php](http://www.memphis.edu/physics/undergraduate/2nd_major_requirements.php)

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Physics - Second Major for the Bachelor of Science Degree, (B.S.)

Program objectives for a B.S. in Physics are: (a) knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

#### Mathematics

- MATH 1910 - Calculus I

#### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

### The Major: (59-66 hours in addition to University General Education Program)

Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4211 - Waves and Optics
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II

- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Second Major for the Bachelor of Science Degree

A total of twenty-nine (29) semester hours beyond PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121, many of which are already required by the primary major. Since the students in each B.S. degree-granting department take different courses to satisfy their degree requirements, the program for the second major in Physics is different for each discipline. For details, please contact the Department of Physics and Materials Science or check the department's website at:

[http://www.memphis.edu/physics/undergraduate/2nd\\_major\\_requirements.php](http://www.memphis.edu/physics/undergraduate/2nd_major_requirements.php)

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Political Science, (B.A.)

Program objectives for a B.A. in Political Science are: (a) basic understanding of political institutions and processes in the United States and other countries; (b) basic understanding of the ways in which countries interact with one another, directly or through intermediary institutions; (c) basic understanding of the development of political thought; (d) able to apply basic political science methodologies to political science questions; (e) able to analyze and explain political processes and outcome; (f) able to interpret political attitudes, values, and beliefs; (g) have the critical thinking skills necessary for careers in government, business, law, or academia.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## The Major (36 hours)

For the purposes of defining undergraduate requirements for the political science major and minor, the department employs four subfields, with the following courses in each:

### American Government and Politics:

- POLS 1030 - American Government
- POLS 3211 - State/Local Government
- POLS 3213 - Intro to Public Policy
- POLS 3215 - Interest Groups/Amer Politics
- POLS 3216 - Political Parties/Elections
- POLS 3217 - The Political Media
- POLS 3218 - The American Presidency
- POLS 3219 - Judicial Process
- POLS 3220 - U. S. Congress
- POLS 3221 - Public Opinion
- POLS 3405 - Intro Law/Jurisprudence
- POLS 4200 - Envrnmntl Law/Policy/Regulatr
- POLS 4211 - Const Law/National Powers
- POLS 4212 - Const Law Civil Liberty
- POLS 4222 - Urban Politics
- POLS 4223 - Issues/Urban Politics
- POLS 4701 - Policy Perspectives

### Comparative Politics:

- POLS 1301 - Intro to Comparative Politics
- POLS 3302 - West Europe Govt/Politics
- POLS 3306 - Latin American Govt/Politics
- POLS 3309 - Govt/Politics of Mid East
- POLS 3310 - Politics/Developed World
- POLS 3320 - Human Rights/World Politics
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3340 - Power/Politics/State

- POLS 4307 - Govt and Pol Communist China
- POLS 4315 - Revolution/Political Violence
- POLS 4317 - Democratic Transitions
- POLS 4820 - Political History of Israel

## International Relations:

- POLS 1501 - International Relations
- POLS 3505 - International Organizations
- POLS 3506 - American Foreign Policy
- POLS 3509 - Contmp Prblm Intl Relation
- POLS 4504 - International Law
- POLS 4506 - Prob American Foreign Policy
- POLS 4508 - Theories Internatl Relations
- POLS 4510 - Politics of Global Economy
- POLS 4511 - International Security
- POLS 4512 - Global Environmental Politics

## Political Theory:

- POLS 1101 - Intro Ancient Political Thgt
- POLS 1102 - Intro Modern Political Thought
- POLS 3102 - Religion and Politics
- POLS 3401 - Legal/Pol Thght Classical
- POLS 3402 - Legal/Political Thght Modern
- POLS 3410 - Contemporary Political Thght
- POLS 3415 - Feminist Political Theory
- POLS 3420 - Race and Politics in U.S.
- POLS 4405 - Origin/Dev Amer Pol Thought
- POLS 4415 - African-Am Pol Thght to 1900
- POLS 4416 - African-Am Pol Tht from 1900

## Note:

Students must complete POLS 1030 and POLS 4101.

Students must complete at least 6 hours in each of the four subfields listed above.

No more than 9 total hours of internship (POLS 4230, POLS 4231), mock trial (POLS 4709), research and study abroad (POLS 4399), and independent study (POLS 4702) combined may be counted toward the 36 hours required for a major in Political Science. Of these 9 hours, no more than three hours of Administrative Internship (POLS 4231), and no more than six total hours in any combination of POLS 4709, POLS 4399, and POLS 4702 may be counted toward the major.

At least 15 hours in political science must be earned in residence at the University of Memphis.

NOTE: Students who have successfully completed an equivalent social statistics course prior to declaring a Political Science major are exempted from the requirement to take POLS 4101, and must substitute another upper-division course in Political Science.

NOTE: The College offers Pre-Law advising for those interested in careers in law. Also, any major in Political Science may earn a second major in International Studies. Political Science courses in International Relations and Comparative Politics fulfill requirements for both the Political Science major and the interdisciplinary major in International Studies.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The department offers an honors program to qualified majors who choose to pursue a more sophisticated knowledge of the discipline, a more rigorous level of analysis, and a deeper understanding of politics. Students who have completed 55 hours of course work (with at least 9 hours in Political Science) and have a minimum over-all grade point average of 3.0 (with a minimum in Political Science of 3.25), or who can present equivalent qualifications, are invited to apply for admission to the program. The program requires 18 hours of honors course work, 12 or more of which must be upper-division Political Science courses, and minimum final grade point averages of 3.00 overall, 3.25 in Political Science, and 3.25 in honors coursework. Honors students also have the option of completing a Senior Thesis in Political Science (POLS 4999). Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Political Science." Moreover, the student's diploma and the record at the University of Memphis will reflect this distinction. Details of the program are available in the Political Science Office.

## Typical 4-Year Political Science Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH\* (3-4)
- POLS 1030 - American Government
  - Elective (3)
  - Foreign Language/B.A. (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
- POLS 1501 - International Relations
- POLS 1101 - Intro Ancient Political Thgt
- or
- POLS 1102 - Intro Modern Political Thought
  - Foreign Language/B.A. (3)

Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
  - History\* (3)
  - Natural Science\* (4)
- POLS 1301 - Intro to Comparative Politics
  - Fine Arts\* (3)
  - POLS Political Theory (3)
  - Natural Science\* (4)
  - Elective (3)
  - Elective (3)
- COMM 2381 - Oral Communication

**Semester Totals 32 hrs**

## Junior Year

- UD elective (3)
- Elective (3)
- UD POLS (3)
- UD POLS Comparative Politics (3)
- POLS 4101 - Political Statistics
  - UD POLS Amer. Gov. & Policy (3)
  - UD POLS International Relations (3)
  - UD POLS (3)
  - UD elective (3)
  - Elective (3)

**Semester Totals 30 hrs**

## Senior Year

- POLS 4212 - Const Law Civil Liberty
- or
- POLS 4405 - Origin/Dev Amer Pol Thought
    - Elective (3)
    - Elective (3)
    - UD elective (3)
    - UD elective (3)
    - UD elective (3)
    - UD elective (3)
    - UD elective (3)
    - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Preschool & Child Care Administration, (B.P.S.)

These guidelines are designed for persons seeking careers in the administration of early childhood programs including childcare centers, both for-profit and non-profit; private and public pre-kindergarten programs; Head Start; pre-schools; parents' day out programs; before and after school care; and centers for children with special needs. Also served by these guidelines are persons with experience in childcare settings from a wide variety of backgrounds, including childcare volunteers and aides, as well as teachers and directors. In addition to core content in early childhood professional knowledge, there is course work to develop skills in fiscal management, recruiting and hiring personnel, health and safety management, board relations, marketing and public relations, and liaison with professional associations and regulatory agencies.

**NOTE: This Program DOES NOT lead to teacher licensure. Students interested in gaining a teaching license should contact the College of Education at 678-2728 or visit their website at: <http://www.memphis.edu/tep/>.**

### General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

### Coordinated Study (57 hours)

Students must earn a grade of "C-" or better in all Coordinated Study courses.

### Child Development and Family Studies (18 hours)

- EDPR 2111 - Development Across Lifespan
- CDFS 2100 - Intro Fld of Chld Dev& Fam St
- CDFS 2101 - Family/Global Perspective
- CDFS 3401 - Parent Child Relations
- CDFS 4220 - Understand Chldn/Behv/Guide
- CDFS 4223 - Home/School/Comm Engage



## Educational Context (9 hours)

- SPED 2000 - Foundation/Exceptional Learn
- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch
- ECED 4500 - Emergent Literacy/Lang Dev
- CDFS 4101 - Int Curr for Early Learners
- EDPR 4301 - Early Child Dev/Begin Teacher

## Families and Culture (9 hours)

Select ONE course from EACH group

### Group A

- SOCI 3401 - Social Inequality
  - SOCI 3422 - Racial and Ethnic Minorities
  - SOCI 4420 - Racial Inequality
  - SOCI 4442 - Sociology of Poverty
- 
- SOCI 3401 - Social Inequality
  - SOCI 3422 - Racial/Ethnc Minorities
  - SOCI 4420 - Racial Inequality
  - SOCI 4442 - Sociology of Poverty

### Group B

- ANTH 3511 - Culture/Kin/Family
- ANTH 4411 - Urban Anthropology
- HIST 4831 - History American Family
- HIST 4863 - History/Childhood in America
- SOCI 3831 - Marriage and Family

### Group C

- HIST 4851 - History of Women in America
- SOCI 3432 - Sociology of Gender
- SOCI 4460 - Black/White Women in South
  - UNIV 2304 - Gender and Society

## Program Administration (21 hours)

### Fiscal Management (6 hours)

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II

### Human Resource Management (6 hours)

- MGMT 3110 - Organization and Mgmt
- MGMT 3215 - Management of Human Resources

### Health and Safety Management (6 hours)

- NUTR 2202 - Nutrition
- HMSE 2102 - First Aid and CPR

### Marketing and Public Relations

- PBRL 3400 - Survey of Public Relations
- or
- MKTG 3010 - Principles of Marketing

### Internship (3 hours)

- UNIV 4110 - Internship

### Thematic Studies (6 hours)

### Senior Project (3 hours)

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Psychology, (B.A.)

Program objectives for a B.A. in Psychology are: (a) describe the nature of psychology as a discipline; (b) use the concepts, language, and major theories of the discipline to account for psychological phenomena; (c) demonstrate knowledge and understanding representing appropriate breadth and depth in selected content areas of psychology; (e) describe the basic characteristics of the science of psychology; (f) explain different research methods used by psychologists; (g) design and conduct basic studies to address psychological questions using appropriate research methods; (h) evaluate the appropriateness of conclusions derived from psychological research; (i) generalize research conclusions appropriately based on the parameters of particular research methods; (j) follow the APA Code of Ethics in the treatment of human and nonhuman participants in the design, data collection, interpretation, and reporting of psychological research; (k) use critical thinking effectively; (l) use reasoning to recognize, develop, defend, and criticize arguments and other persuasive appeals; (m) approach problems effectively; (n) describe major applied areas of psychology (e.g., clinical, counseling, industrial/organizational, school, health); (o) identify appropriate applications of psychology in solving problems; (p) articulate how psychological principles can be used to explain social issues and inform public policy; (q) recognize the necessity for ethical behavior in all aspects of the science and practice of psychology; (s) recognize and understand the importance of academic integrity; (t) recognize and respect human diversity and understand that psychological explanations may vary across populations and contexts; (u) assess and justify engagement with respect to civic, social, and global responsibilities; (v) understand the limitations of psychological knowledge and skills.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements and are listed above.

## The Major (35 hours in Psychology)

### Completion of

- PSYC 1030 - General Psychology
- PSYC 1300 - Careers in Psychology
- PSYC 3010 - Research and Statistics I
- PSYC 3020 - Research and Statistics II

## One Course from Each of the Three Content Areas Below:

### Cognitive and Neuroscientific Bases of Behavior:

- PSYC 3303 - Thinking/Cognitive Processes
- PSYC 3304 - Perceptual Psychology
- PSYC 3306 - Physiological Psyc
- PSYC 3307 - Animal Behavior
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 3530 - Psychology of Language
- PSYC 4305 - Mind/Brain/Intelligence

### Social and Developmental Bases of Behavior:

- PSYC 3103 - Child Psychology
- PSYC 3106 - Social Psychology
- PSYC 3236 - Psychology of Gender
- PSYC 3506 - Human Sexuality
- PSYC 4034 - Children Soc Relationships
- PSYC 4102 - Abnormal Child Psych

### Applications of Behavior:

- PSYC 3508 - Indust/Organizatnl Psyc
- PSYC 3509 - Applying Psyc/Community
- PSYC 3512 - Health Psychology
- PSYC 3520 - Legal/Forensic Psyc
- PSYC 4401 - Intro to Clinical Psychology
- PSYC 4507 - Psyc Internship

## Two of the Following 4-hour Lab Courses

- PSYC 3106 - Social Psychology
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 3512 - Health Psychology

## Psychology Field Test

All majors must take a Psychology Field Test during their senior year.

## Concentrations (24 hours):

The department offers three concentrations: (a) General Psychology (b) Behavioral Neuroscience (c) Cognitive Science. Students must complete the requirements for one concentration.

### General Psychology:

Completion of requirements above and additional upper division hours in PSYC to bring the PSYC total to at least 35 hours.

### Behavioral Neuroscience:

Completion of requirements above

- BIOL 1110 - General Biology I
- BIOL 1120 - General Biology II
- CHEM 1110 - General Chemistry I
- CHEM 1120 - General Chemistry II
- PSYC 3306 - Physiological Psyc
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 4505 - Special Prob/Behav Neurosci
- PSYC 4506 - Direct Rsch Behav Neuro
- PSYC 4997 - Senior Thesis/Behav Neurosci
  - additional upper division hours in PSYC courses to bring their PSYC total to at least 35 hours.

### Cognitive Science:

Completion of requirements above;

- PSYC 3303 - Thinking/Cognitive Processes

### At Least One Course From Either

- PSYC 3103 - Child Psychology
- or
- PSYC 3106 - Social Psychology

### At Least Two Courses From:

- PSYC 3304 - Perceptual Psychology
- PSYC 3305 - Psyc Learning/Memory
- PSYC 3306 - Physiological Psyc
- PSYC 3530 - Psychology of Language
- PSYC 4305 - Mind/Brain/Intelligence

- PSYC 4998 - Sr Thesis/Cognitive Science
- or
- PSYC 4999 - Honors Sr Thesis/Cognitive Sc
  - additional upper division hours in PSYC courses to bring their PSYC total to at least 35 hours.

## Students Choosing Cognitive Science Concentration

Students choosing Cognitive Science concentration must complete at least three of the following courses outside of psychology:

- PHIL 3460 - Nature/Mind/Knowledge
- PHIL 3621 - Intermediate Logic
- PHIL 4421 - Philosophy of Mind
- COMP 1800 - Problem Solving/Computers
- COMP 1900 - CS1: Intro Comp Science
- COMP 4001 - Computer Programming
- ENGL 3511 - Intro to Linguistics
- COMP 2700 - Discrete Structures

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Psychology Honors Program provides an opportunity for selected Psychology majors to enrich their learning experience through honors courses, independent study, a senior thesis, and extracurricular learning experiences. The program requires a minimum of 15 credit hours of honors work in psychology. Students who complete the program with a 3.25 cumulative grade point average will earn degrees that included the distinction "With Honors in Psychology." Please contact the department honors coordinator for more detailed information about the Psychology Honors Program and assistance in applying. Psychology majors may also be eligible to participate in the University Honors Program described elsewhere in this bulletin. Some psychology honors courses may be counted toward the requirement of the University Honors Program.

**Psychology Honors Classes.** The honors courses described below are open only to students in good standing in the Psychology Honors Program or the University Honors Program. Honors courses in Psychology include: (1) PSYC 1030 (General Psychology - Honors). Students who wish to enroll in this course during their first year may do so either by meeting the requirements for the University Honors Program or by instructor permission; (2) periodically offered honors sections of other courses in the psychology curriculum; (3) specialized honors courses; (4) Honors Special Topics; (5) Directed Research and Senior Thesis.

**Psychology Honors Contracts.** Students may ask the instructor of any psychology course to negotiate an honors contract, in which the instructor and student agree on additional honor-level requirements for the course.

**Psychology Honors Senior Thesis.** Students ask a psychology faculty member to serve as adviser for PSYC 4996 - Honors Senior Thesis, typically completed during the student's last semester. Before enrolling in PSYC 4996, the student should complete at least one semester of PSYC 4504 - Directed Research under the same faculty adviser who will oversee work in the honors thesis. Students specializing in Behavioral Neuroscience may choose to enroll in PSYC 4506 (Directed Research in Behavioral Neuroscience) and PSYC 4997 (Senior Thesis in Behavioral Neuroscience). The completed thesis is presented in writing and defended orally before a faculty committee.

## Typical 4-Year Psychology Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3-4) \*
- PSYC 1030 - General Psychology
- PSYC 1300 - Careers in Psychology
  - Foreign Language/B.A. (3)
  - Elective (ACAD 1100) (3)
- ENGL 1020 - English Comp/Analysis
  - Humanities (3) \*
  - PSYC Content Area 1 (3)
  - Elective (3)
  - Foreign Language/B.A. (3)

Semester Totals 31-32 hrs

### Sophomore Year

- PSYC 3010 - Research and Statistics I
  - ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
    - PSYC Content Area 2 (3)
  - COMM 2381 - Oral Communication
    - Foreign Language/B.A. (3)
  - PSYC 3020 - Research and Statistics II
    - PSYC Content Area 3 (3)
    - History (3) \*
    - Foreign Language/B.A. (3)

Semester Totals 29 hrs

### Junior Year

- Fine Arts (3) \*
- UD PSYC (3)
- Natural Science (4) \*
- Elective (3)
- Elective (3)

- History (3) \*
- UD PSYC (3)
- Elective (3)
- Social/Behavioral Sciences (3) \*
- Elective (3)

Semester Totals 31 hrs

## Senior Year

- UD PSYC w/lab (4)
- Elective (3)
- Elective (3)
- UD Elective (3)
- UD Elective (2)

- UD PSYC w/lab (4)
- Natural Science (4) \*
- UD Elective (3)
- UD Elective (3)

Semester Totals 29 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Public Relations, (B.A.)**

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.



## Bachelor of Arts (B.A.) (6-9 hours)

Students must take at least 42 hours but may not exceed 48 hours of coursework in the department of Journalism and Strategic Media. The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## Journalism and Strategic Media Core (21 hours)

### Major Core (15 hours)

Completion of

- JRSM 1700 - Survey of Media
- JRSM 1750 - Precision Language
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
- JRSM 4700 - Media Law

### One of the Following (3 Hours):

- JRSM 4702 - Media, Diversity & Society
- JRSM 4704 - Issues in Sport and Media
- JRSM 4708 - Media Ethics
- JRSM 4716 - Media History
- JRSM 4720 - Presidents and the Press

### Select one from (3 hours):

- JRSM 4930 - Media Internship
- or
- JRSM 4940 - Student Media Practicum

## Public Relations (24 journalism and strategic media and 6 non-journalism hours):

- PBRL 3400 - Survey of Public Relations
- PBRL 3421 - Public Relations Writing
- PBRL 4410 - Public Relations Research
- PBRL 4440 - Public Relations Campaigns

One of the following:

- PBRL 3409 - Public Relations Case Studies
- PBRL 4301 - Event Management/HPRM& PR
- PBRL 4421 - Crisis Comm in Public Relation
- PBRL 4431 - Music Promo/Public Relations

One of the following:

- JOUR 3120 - Reporting
- JOUR 3130 - Feature Writing/Reporting
- JOUR 3526 - Multimedia Storytelling
  - One of the following:
    - ADVR 3300 - Survey of Advertising
    - ADVR 3310 - Branding and Strategic Media
    - JOUR 4500 - Web Publish I: html/CSS
    - JRSM 4910 - Advanced Social Media

One ADVR, JOUR, JRSM or PBRL elective

- MGMT 3110 - Organization and Mgmt
- MKTG 3010 - Principles of Marketing

## Electives (13 hours)

Completion of courses to bring the total to 120 semester hours.

## Typical 4-Year Public Relations Sequence

### Freshman Year

- JRSM 1700 - Survey of Media \*\*
- JRSM 1750 - Precision Language
  - Foreign Language/B.A. (3)
  - Social/Behavioral Sciences (3) \*
- ENGL 1010 - English Composition
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
  - Foreign Language/B.A. (3)
  - Humanities/Fine Arts (3) \*
- ENGL 1020 - English Comp/Analysis

## Semester Totals 30 hrs

### Sophomore Year

- PBRL 3400 - Survey of Public Relations
  - Non-JRSM elective (Minor) (3)
  - Foreign Language/B.A. (3)
  - History (3) \*
- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American

- PBRL 3421 - Public Relations Writing
  - Natural Science\* (4)

Foreign Language/BA (3)

- Fine Arts\* (3)

Math\* (3)

## Semester Totals 31 hrs

### Junior Year

- JOUR 3120 - Reporting or
- JOUR 3130 - Feature Writing/Reporting or
- JOUR 3526 - Multimedia Storytelling
- MKTG 3010 - Principles of Marketing
  - Natural Science (4) \*
  - History (3) \*
  - Non-JRSM Elective (Minor) (3)
- PBRL 3409 - Public Relations Case Studies or
- PBRL 4301 - Event Management/HPRM& PR or
- PBRL 4421 - Crisis Comm in Public Relation or
- PBRL 4431 - Music Promo/Public Relations
- MGMT 3110 - Organization and Mgmt
- COMM 2381 - Oral Communication
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM Elective (Minor) (3)

## Semester Totals 31 hrs

### Senior Year

- PBRL 4410 - Public Relations Research
  - ADVR/JOUR/JRSM/PBRL Elective (3)
- JRSM 4700 - Media Law

- Non-JRSM Elective (Minor) (3)
- Non-JRSM Elective (Minor) (1)
- PBRL 4440 - Public Relations Campaigns
  - UD JRSM Elective (3)
- ADVR 3300 - Survey of Advertising or
- ADVR 3310 - Branding and Strategic Media or
- JRSM 4910 - Advanced Social Media or
- JOUR 4500 - Web Publish I: html/CSS
  - Non-JOUR Elective (Minor) (3)

**Semester Totals 28 hrs**

**Total Hours: 120**

Internship elective highly recommended last semester to enhance employability and complete minimum of 120 hours for degree.

**Hours Required for Graduation: 120**

\*Must satisfy University General Education Program Requirement

\*\*JRSM 1700 fulfills Social Science General Education Requirement

\*\*\*Unless Fine Arts was taken in General Education humanities/Fine Arts, take Non-JOUR Elective (Minor)

## **Religious Studies, (B.L.S.)**

The Concentration in Religious Studies is designed for students with a diversity of backgrounds and interests in religion. Students who are enrolled in the concentration may be considering employment in fields where a knowledge of different religious traditions would be an asset, such as counseling or social work, or they may be contemplating further study of religion in a theological seminary or religious studies graduate program. Religious Studies is a traditional liberal arts field that helps students to develop skills in critical thinking, the analysis of complex issues, and oral and written expression.

## **General Education (35-41 Hours)**

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

Students concentrating in Religious Studies may want to take ANTH 1200 and SOCI 1010 to fulfill the general education Social Science requirement.

## Coordinated Study (36 hours)

### Religious Studies Core (12 Hours)

- RLGN 1100 - Introduction to Religion
- RLGN 3100 - Perspectives on Religion
- UNIV 3580 - Hebrew and Greek Legacy
- UNIV 3581 - Faith/Reason/Imagination

### Religious Context Courses (24 Hours)

Choose 8 courses from the following:

- AAAS 4251 - African Religions/Diaspora
  - ANTH 4253 - Anthropology of Religion
- ENGL 4461 - Bible as Literature
- HIST 3275 - History of Jewish People
- JDST 3601 - Judaism
- JDST 3661 - Old Testament
- JDST 4511 - Holocaust Studies
- JDST 4841 - Biblical Archaeology
- PHIL 3701 - Human and the Divine
- PHIL 3702 - Philosophy of Religion
- PHIL 3721 - Chinese Philosophy
- POLS 3102 - Religion and Politics
  - SOCI 3860 - Sociology of Religion
- UNIV 3565 - Comparative Christianity
- UNIV 3585 - Critical Themes Old Testament
- UNIV 3590 - New Testament

## College Requirements (9 Hours)

### Thematic Studies (6 Hours)

Students complete a total of 6 hours of University College thematic studies course(s). Must be from courses not in the core.

### Senior Project (3 Hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse together the two or more academic areas that comprise the coordinated study (major) into an academically-relevant example of scholarship.

The Senior Project is completed during a student's final semester.

- UNIV 4995 - Senior Project

## Electives (29-34 Hours)

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

Many upper-division (3000/4000-level) courses have prerequisites that must be met prior to being permitted to register for those courses. Students are responsible for knowing and satisfying all course prerequisites. Please view course descriptions at: <http://www.memphis.edu/ugcatalog/coursedescrip/index.php>.

## Experiential Learning Credit Opportunities

Students seeking degrees in University College may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or non-college instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area.

Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures. More detailed information about procedures may be obtained from the advisor.

## Social Work, (B.A.)

The B.A. program in Social Work is designed to equip students with the knowledge and skills necessary for entrance into the profession of social work as beginning level generalist practitioners. Program objectives for a B.A. in Social Work are: a) apply critical thinking skills within the context of professional social work practice; (b) understand the value base of the profession and its ethical standards and principles, and practice accordingly; (c) practice without discrimination to needs of diverse clientele; (d) apply strategies of advocacy and social change that advance social and economic justice.

### Admission:

Admission to the university will allow students to choose "Pre-Social Work" as their major. Progression to the major of "Social Work" will occur only after the student successfully completes the the following course with a minimum grade of "C":

- SWRK 2010 - Introduction to Social Work
- SWRK 2011 - Writing for Social Work
- SWRK 2911 - Soc Response to Human Need

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

Students majoring in Social Work must take SOCI 3422 to fulfill part of the University General Education History requirement, BIOL 1010/BIOL 1011, BIOL 1020/BIOL 1021 for natural science, and ANTH 1200 for Social/Behavioral Sciences.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### Note:

Successful student progression requires each student to earn a minimum grade of "C" in all required courses for the pre-social work and the social work majors. Students repeating two required classroom courses for the major or field instruction will have an academic review by department faculty in the term following the second course repetition. Students should have a minimum of 30 hours completed before entering the introductory social work courses including:

- ENGL 1020 - English Comp/Analysis
- ANTH 1200 - Cultural Anthropology

Two courses from:

- SOCI 1010 - Introduction to Sociology
- PSYC 1030 - General Psychology
- POLS 1030 - American Government
- ECON 2020 - Intro to Microeconomics

## The Major (39 hours in addition to University General Education Program requirements)

Completion of

- SWRK 2010 - Introduction to Social Work
  - SWRK 2011 - Writing for Social Work
  - SWRK 2911 - Soc Response to Human Need
  - SWRK 3902 - Human Behavior/Soc Envrnmnt
  - SWRK 3903 - Social Work Practice I
  - SWRK 3904 - Social Work Practice II
  - SWRK 3906 - Social Work Practice III
  - SWRK 3920 - Soc Welfare Policy/Programs
  - SWRK 3930 - Intro Soc Work Research
  - SWRK 4830 - Field Instruction Soc Work I
  - SWRK 4831 - Field Instruction Soc Work II
  - SWRK 4840 - Integrative Field Seminar I
  - SWRK 4841 - Integrative Field Seminar II
  - BIOL 1010 - Biology of Cells
  - BIOL 1011 - Biology of Cells Lab
  - BIOL 1020 - Biology of Organisms
  - BIOL 1021 - Biology of Organisms Lab
  - ANTH 1200 - Cultural Anthropology (included in the University General Education Program requirements)
  
  - PHIL 1611 - Elementary Logic
- and
- SOCI 3311 - Social Statistics

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year Social Work Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3-4) \*
- ANTH 1200 - Cultural Anthropology
  - Foreign Language/B.A. (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
- PHIL 1611 - Elementary Logic
  - Humanities (3) \*
  - Foreign Language/B.A. (3)
  - Social/Behavioral Sciences (3) \*

Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- SWRK 2010 - Introduction to Social Work
- SWRK 2011 - Writing for Social Work
- SWRK 2911 - Soc Response to Human Need
- BIOL 1010 - Biology of Cells
- BIOL 1011 - Biology of Cells Lab
  - History (3) \*
  - Fine Arts (3) \*
- SWRK 3920 - Soc Welfare Policy/Programs
- BIOL 1020 - Biology of Organisms
- BIOL 1021 - Biology of Organisms Lab
- SWRK 3902 - Human Behavior/Soc Envrnmnt



## Semester Totals 32 hrs

### Junior Year

- SWRK 3903 - Social Work Practice I
- SWRK 3930 - Intro Soc Work Research
  - Social Science\* (3)
- SOCI 3311 - Social Statistics
- SOCI 3422 - Racial/Ethnic Minorities
  - Elective (3)
- SWRK 3904 - Social Work Practice II
- COMM 2381 - Oral Communication
- SWRK 3906 - Social Work Practice III
  - UD Elective (3)

## Semester Totals 31 hrs

### Senior Year

- SWRK 4830 - Field Instruction Soc Work I
- SWRK 4840 - Integrative Field Seminar I
  - Elective (3)
  - Elective (4)
- SWRK 4841 - Integrative Field Seminar II
  - UD elective (3)
- SWRK 4831 - Field Instruction Soc Work II
  - Elective (3)
  - Elective (3)

## Semester Totals 27 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

For the General Education Social/Behavioral Science and Additional Social Science - Complete 2 of the following: SOCI 1010, POLS 1030, POLS 1030, and ECON 2020.

## Sociology Honors, (B.A.)

Program objectives for a B.A. in Sociology are: (a) an understanding of and competence in the major theories, statistical techniques, and methodological approaches of sociology; (b) development of theoretical, substantive, and methodological knowledge to conduct research projects or participate in applied research projects; (c) participation in an internship or discipline related experiences; (d) preparation for employment in a sociology-related field or advanced study in sociology or other graduate field.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### The Major (30 hours)

Completion of 30 semester hours in sociology,

- SOCI 1010 - Introduction to Sociology
- SOCI 3311 - Social Statistics
- SOCI 3322 - Methods of Social Research
  
- SOCI 4210 - Rise of Sociological Theory
- or
- SOCI 4211 - Contemp Sociological Theory
  
- SOCI 4999 - Senior Thesis Seminar (or SOCI 4998 for Honors students)
  - 15 additional upper-division hours in SOCI.

### Electives

Electives may be chosen to bring the total number of hours to 120.

### Honors Program

The Honors Program in Sociology requires 18 hours of honors work, at least 12 hours of which must be upper-division sociology courses. To complete the Honors Program, a student must have a minimum overall final grade point average of 3.00 in Sociology, and a 3.25 grade point average in honors course work.

Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Sociology." Moreover, the student's diploma and the record at the University of Memphis will reflect this distinction. Please see the department's Faculty Honors Advisor for more details on the program.

## Typical 4-Year Sociology Sequence

### Freshman Year

- SOCI 1010 - Introduction to Sociology
- ENGL 1010 - English Composition
  - MATH\* (3-4)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - Humanities\* (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Foreign Language/B.A. (3)
  - Social/Behavioral Sciences\* (3)

### Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - History\* (3)
  - Elective (3)
  - Natural Science\* (4)
  - Elective (3)
  - UD SOCI (3)
  - Fine Arts\* (3)
  - History\* (3)
  - Natural Science\* (4)
  - Elective (3)

Semester Totals 32 hrs

## Junior Year

- SOCI 3311 - Social Statistics
    - UD SOCI (3)
    - Elective (3)
    - UD elective (3)
  - COMM 2381 - Oral Communication
  - SOCI 4210 - Rise of Sociological Theory
- or
- SOCI 4211 - Contemp Sociological Theory
    - UD SOCI (3)
    - UD SOCI (3)
    - UD elective (3)
    - Elective (3)

Semester Totals 30 hrs

## Senior Year

- SOCI 3322 - Methods of Social Research
  - UD Elective (3)
  - UD SOCI (3)
  - UD elective (3)
  - Elective (3)
- SOCI 4999 - Senior Thesis Seminar
  - UD elective (3)
  - Elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Sociology, (B.A.)

Program objectives for a B.A. in Sociology are: (a) an understanding of and competence in the major theories, statistical techniques, and methodological approaches of sociology; (b) development of theoretical, substantive, and methodological knowledge to conduct research projects or participate in applied research projects; (c) participation in an internship or discipline related experiences; (d) preparation for employment in a sociology-related field or advanced study in sociology or other graduate field.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### The Major (30 hours)

Completion of 30 semester hours in sociology,

- SOCI 1010 - Introduction to Sociology
- SOCI 3311 - Social Statistics
- SOCI 3322 - Methods of Social Research
  
- SOCI 4210 - Rise of Sociological Theory
- or
- SOCI 4211 - Contemp Sociological Theory
  
- SOCI 4999 - Senior Thesis Seminar (or SOCI 4998 for Honors students)
  - 15 additional upper-division hours in SOCI.

### Electives

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year Sociology Sequence

### Freshman Year

- SOCI 1010 - Introduction to Sociology
- ENGL 1010 - English Composition
  - MATH\* (3-4)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - Humanities\* (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Foreign Language/B.A. (3)
  - Social/Behavioral Sciences\* (3)

Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - History\* (3)
  - Elective (3)
  - Natural Science\* (4)
  - Elective (3)
  - UD SOCI (3)
  - Fine Arts\* (3)
  - History\* (3)
  - Natural Science\* (4)
  - Elective (3)

Semester Totals 32 hrs

### Junior Year

- SOCI 3311 - Social Statistics
  - UD SOCI (3)
  - Elective (3)
  - UD elective (3)
- COMM 2381 - Oral Communication
- SOCI 4210 - Rise of Sociological Theory
- or

- SOCI 4211 - Contemp Sociological Theory
  - UD SOCI (3)
  - UD SOCI (3)
  - UD elective (3)
  - Elective (3)

Semester Totals 30 hrs

## Senior Year

- SOCI 3322 - Methods of Social Research
  - UD Elective (3)
  - UD SOCI (3)
  - UD elective (3)
  - Elective (3)
- SOCI 4999 - Senior Thesis Seminar
  - UD elective (3)
  - Elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Sport & Leisure Management (B.S.)**

The program objectives of the B.S. in Sport and Leisure Management (SLM) are: (a) to become involved in the profession and committed to the academic, service, and social mission of the profession; (b) to demonstrate an awareness of the critical role of diversity to the delivery of inclusive sport and leisure services; (c) to demonstrate effective leadership within the sport and leisure profession; and (d) to behave in accordance with the ethical standards of the sport and leisure profession.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## The Major (79 hours)

### Core Requirements (31 hours)

- SLS 2105 - Foundation/Sport/Leisure Mgt
- SLS 3104 - Commercial Rec and Tourism
- SLS 3105 - Sport/Leisure as Pop Culture
- SLS 3204 - Org Analysis Sport/Leisure
- SLS 3605 - Financial Management SLS
- SLS 3650 - Promotions in Sport& Leisure
- SLS 4135 - Sport/Culture Global Perspect
- SLS 4155 - Sport/Leisure Governance
- SLS 4205 - Legal Aspects SLM
- SLS 4500 - Sport/Leisure Mktg

### SLS Electives (27-48 hours)

Includes all SLS courses not required in the major core and:

- HPRM 2007 - Resort Management
- HPRM 3330 - Managing Hotel/Resort Ops
- HPRM 2999 - Purchase/Hospitality Industry
- HPRM 3130 - Hospitality Law Ethics& Risk
- HPRM 3600 - Entertainment Management

General Electives (0-21 hours) to bring the total hours to 120.

## Accelerated B.S. in Sport and Leisure Management/M.S in Sport Commerce

The Accelerated Bachelor's/Master's (ABM) degree program is a B.S. in Sport and Leisure Management/M.S in Sport Commerce. This program allows outstanding undergraduate students to begin the coursework for the M.S. in Sport Commerce during their senior year. Students are encouraged to begin planning to enter the ABM program early in their undergraduate career in consultation with their advisor. Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study that will allow them to complete their B.S. in Sport and Leisure Management degree while also beginning coursework toward their M.S. in Sport Commerce degree.

To apply, students must have a minimum 3.25 grade point average, submit two letters of reference, and provide a copy of their academic transcript to the Kemmons Wilson School of Hospitality and Resort Management. Each applicant will complete an interview with the graduate academic coordinator of the M.S. in Sport Commerce program. To continue in the program past the B.S. in Sport and Leisure Management, students must apply for full admission to both the Graduate School and the M.S. in Sport Commerce program. In the ABM program, up to 9 hours of graduate coursework may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to a student's undergraduate grade point average.

## Typical 4-Year Sport & Leisure Management Sequence

### Freshman Year

- ENGL 1010 - English Composition



Social/Behavioral Sciences\*

Mathematics\*

Humanities/Fine Arts\*

General Elective

- ENGL 1020 - English Comp/Analysis
- COMM 2381 - Oral Communication

Natural Science/Lab\*

Humanities/Fine Arts\*

History\*

**Semester Totals : 31 hours**

## Sophomore Year

Natural Science/Lab\*

Literature

- SLS 2105 - Foundation/Sport/Leisure Mgt

SLS Elective

- ECON 2010 - Intro to Macroeconomics

History\*

- SLS 3204 - Org Analysis Sport/Leisure
- SLS 3605 - Financial Management SLS

SLS Elective

**Semester Totals: 29 hours**

## Junior Year

- SLS 3104 - Commercial Rec and Tourism
- SLS 3105 - Sport/Leisure as Pop Culture
- SLS 4500 - Sport/Leisure Mktg

SLS Elective

SLS Elective or General Elective

- SLS 3650 - Promotions in Sport& Leisure
- SLS 4135 - Sport/Culture Global Perspect
- SLS 4205 - Legal Aspects SLM

SLS Elective

SLS Elective or General Elective

Semester Totals: 30 hours

## Senior Year

- SLS 4155 - Sport/Leisure Governance

SLS Elective

SLS Elective or General Elective

SLS Elective or General Elective

SLS Elective or General Elective

SLS Elective

SLS Elective

SLS Elective

SLS Elective

SLS Elective or General Elective

Semester Totals: 30 hours

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Supply Chain Management, (B.B.A.)

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

A minimum of 24 upper division semester hours in supply chain management courses as follows:

- SCMS 2610 - Introduction to Supply Chain Management
- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management
- SCMS 4510 - Operations Planning and Resources Management

and either

- SCMS 4810 - Problems in Supply Chain Management

or

- SCMS 4811 - Internship in Supply Chain Management

The remaining six to nine semester hours chosen by the student from the following courses:

- ACCT 3310 - Cost Accounting
- MGMT 3215 - Management of Human Resources
- MGMT 4420 - Organizational Behavior in Business
- MGMT 4510 - International Business Communication
- MIS 3885 - Strategic IT Project Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4470 - Essentials of Negotiation
- SCMS 4511 - Supply Chain Strategy
- SCMS 4512 - Current Topics in Supply Chain Management
- SCMS 4810 - Problems in Supply Chain Management

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Supply Chain Management Sequence:

### Freshman Year

- ENGL 1010 - English Composition
  - History (3) \*
  - Humanities/Fine Arts (3) \*
- MIS 2749 - Foundation/Information Systems
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis

- History (3) \*
- Humanities/Fine Arts (3) \*
- ECON 2010 - Intro to Macroeconomics
- MATH 1830 - Elementary Calculus
- or
- MATH 1421 - Honors Calculus I
- or
- MATH 1910 - Calculus I

Semester Totals 30 hrs

## Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
- Natural Science (4) \*
- COMM 2381 - Oral Communication
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
- Natural Science (4) \*
- SCMS 2610 - Introduction to Supply Chain Management
- ECON 2020 - Intro to Microeconomics
- Elective (3)

Semester Totals 32 hrs

## Junior Year

- MIS 3210 - Critical Thinking Using Analytics
- SCMS 3711 - Business Analytics - Tools
- Major elective (3)
- MKTG 3010 - Principles of Marketing
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3620 - Logistics Management
- SCMS 3510 - Operations Management
- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt

- Elective (3)

Semester Totals 30 hrs

## Senior Year

- Elective (1-3)
- SCMS 3650 - Supply Management
- SCMS 4510 - Operations Planning and Resources Management
  - Major elective (3)
- SCMS 4810 - Problems in Supply Chain Management
- or
- SCMS 4811 - Internship in Supply Chain Management
- FIR 3410 - Financial Management
  - Major elective (if needed) (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 28-30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Teaching All Learners (leading to Elementary K-6 and Special Education Modified K-12 licensure), (B.S.Ed.)**

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

The following University General Education Program requirements are specified by the department for this major:

## Humanities/Fine Arts:

Choose one of these:

- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American

Plus one of these:

- ART 1030 - Intro to Art

or

- MUS 1030 - Introduction to Music

or

- THEA 1030 - Intro to Theatre

## Recommended Humanities

Select one of these recommended Humanities:

- CLAS 2481 - Mythology
- PHIL 1101 - Fundamental Issues/Philosophy
- PHIL 1102 - Values and Modern World
- POLS 1101 - Intro Ancient Political Thgt
- POLS 1102 - Intro Modern Political Thought

## Social/Behavioral Sciences:

- POLS 1030 - American Government

## Choose Either

- ESCI 1301 - Survey of World Regions
- ESCI 1401 - Intro/Cultural Geography

## History:

## Choose Either

- HIST 2010 - U S to 1877
- or
- HIST 2020 - The U S Since 1877
- or
- HIST 2030 - Tennessee History

### Choose Either

- HIST 1110 - World Civilization I
- or
- HIST 1120 - World Civilization II

### Natural Sciences:

Choose one from list 1 and choose one from list 2

#### List 1:

- BIOL 1010 - Biology of Cells
- and
- BIOL 1011 - Biology of Cells Lab
- or
- BIOL 1020 - Biology of Organisms
- and
- BIOL 1021 - Biology of Organisms Lab

#### List 2:

- ESCI 1010 - Weather and Climate
- ESCI 1020 - Landforms
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet
- PHYS 1010 - Introductory Physics
- PHYS 1001 - Introductory Physics Lab
- or
- PHYS 1020 - Survey of Astronomy I
- PHYS 1002 - Astronomy Laboratory



## Related Liberal Studies (8 hours):

- EDPR 2111 - Development Across Lifespan
- IDT 3600 - Technology in Education
- PETE 3604 - Teach Phys Ed/Health/K-Middle

## Major Core (18 hours):

Major core for Teaching All Learners:

- SPED 2000 - Foundation/Exceptional Learn
- MATH 1480 - Math/Elem School Teachers I
- MATH 1481 - Math/Elem School Teachers II
- ICL 4001 - Teaching/Diverse Environment

## Professional Education (18 hours):

Teaching All Learners (Elementary (K-6) / Special Education Modified):

- SPED 3803 - Classroom/Behavior Management
- ELED 3242 - Teaching/Learning Elem School
- RDNG 4240 - Literacy in Grades K-4 \*
- SPED 3800 - Methods I/Instruct/Literacy
- ELED 3251 - Method/Teach Math/Elem Grades
- ELED 3271 - Method/Social Studies/Elem Grd

## Pre-residency (15 hours)

Elementary/Special Education Modified Licensure:

- RDNG 4241 - Literacy in Grades 4-8 \*
- SPED 3802 - Ed Assessment/Inclusive Set
- ENGL 4531 - Methods and Techniques ESL
- ELED 3261 - Method/Teach/Science/Elem Grde
- SPED 3804 - SPED Methods II. Content Area

## Residency I Semester (14 hours), offered in fall

Elementary/Special Education Modified Licensure:

- ICL 3333 - Stdnt Assess/Inst Dec Mking
- SPED 4020 - Language/Comm/Diverse Classrm
- ICL 4021 - Professional/Ethical Practices
- ICL 4914 - Residency I Practicum \*

## Residency II Semester (12 hours), offered in spring

Elementary/Special Education Modified Licensure:

- ICL 4800 - Residency II Prof Seminar \*
- ICL 4904 - Residency II Clinical

### Note

\*Requires admission to TEP.

NOTE: Several courses are taken as corequisites. Please refer to the latest degree plan and course descriptions for specifics.

## Typical 4-Year Sequence for Teaching All Learners: Elementary Education (K-6) and Special Education Modified (K-12) Licensure

### Freshman Year

- ENGL 1010 - English Composition \*
  - ART 1030 - Intro to Art \*
- or
- MUS 1030 - Introduction to Music \*
- or
- THEA 1030 - Intro to Theatre \*
  - MATH 1420 - Foundations of Mathematics
  - HIST 1110 - World Civilization I
- or
- HIST 1120 - World Civilization II
  - ESCI 1301 - Survey of World Regions
- or
- ESCI 1401 - Intro/Cultural Geography
- ENGL 1020 - English Comp/Analysis \*
  - MATH 1480 - Math/Elem School Teachers I \*
- Humanities
- HIST 2010 - U S to 1877
- or
- HIST 2020 - The U S Since 1877
- or

- HIST 2030 - Tennessee History
- EDPR 2111 - Development Across Lifespan

Semester Totals 30 hrs

## Sophomore Year

- ELED 3242 - Teaching/Learning Elem School
- ENGL 2201 - Literary Heritage \*

or

- ENGL 2202 - Lit Heritage: African-American \*
- IDT 3600 - Technology in Education
- MATH 1481 - Math/Elem School Teachers II

Natural Science and Lab

- PETE 3604 - Teach Phys Ed/Health/K-Middle
- POLS 1030 - American Government

Natural Science and Lab

- SPED 2000 - Foundation/Exceptional Learn
- COMM 2381 - Oral Communication \*

Semester Totals 31 hrs

## Junior Year

- RDNG 4240 - Literacy in Grades K-4
- ELED 3251 - Method/Teach Math/Elem Grades
- ELED 3271 - Method/Social Studies/Elem Grd
- SPED 3803 - Classroom/Behavior Management
- SPED 3800 - Methods I/Instruct/Literacy
- ICL 4001 - Teaching/Diverse Environment
- RDNG 4241 - Literacy in Grades 4-8
- SPED 3802 - Ed Assessment/Inclusive Set
- SPED 3804 - SPED Methods II. Content Area
- ELED 3261 - Method/Teach/Science/Elem Grde
- ENGL 4531 - Methods and Techniques ESL

Semester Totals 33 hrs

## Senior Year (Residency Year)

- ICL 3333 - Stdnt Assess/Inst Dec Mkng
- ICL 4021 - Professional/Ethical Practices
- ICL 4914 - Residency I Practicum
- SPED 4020 - Language/Comm/Diverse Classrm
  
- ICL 4904 - Residency II Clinical
- ICL 4800 - Residency II Prof Seminar

Semester Totals 26 hrs

Total Hours Required for Graduation: 120

\*Must satisfy General Education Program Requirements

## Technology Management Services - (B.P.S)

[Technology Management Services](#) is designed for experienced technicians who wish to enhance their technical expertise while at the same time increasing their skills in management, organizational relations, and communication; their knowledge of contexts within which the management of technology fits; their understanding of workplace issues that can affect productivity; and their ability to manage diversity in the workforce.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

Technology Concentration: 24 hours (12 hours must be upper division)

## This includes courses taken from such departments as

- Engineering
- Engineering Technology
- Manufacturing Engineering

- Architecture
- Mathematics
- Computer Science
- Biology
- Chemistry
- Physics
- Earth Sciences
- and other approved courses.

## Management Services (30 Hours)

### Administration and Supervision (3 Hours)

*Take one course from the following group:*

- MGMT 3110 - Organization and Mgmt
- TECH 4381 - Principles of Supervision
- PADM 3601 - Public Admin

### Organizational Systems (3 Hours)

*Take one course from the following group:*

- MGMT 3215 - Management of Human Resources
- MGMT 4420 - Organizational Behavior in Business
- PADM 4226 - Intro Nonprofit Organizations
- PSYC 3508 - Indust/Organizatnl Psyc

### Marketing and Public Relations (3 Hours)

*Take one course from the following group:*

- MKTG 3010 - Principles of Marketing
- PBRL 3400 - Survey of Public Relations

### Administrative Skills (3 Hours)

*Take one course from the following group:*

- ACCT 2010 - Fundamentals of Acct I

- MIS 2749 - Foundation/Information Systems
  - MIS 2770 - Information Technical Infrastructure

## Statistical & Research Methods (3 Hours)

*Take one course from the following group:*

- SOCI 3311 - Social Statistics
- EDPR 4541 - Fundmntl/Applied Stat Method
- SCMS 3711 - Business Analytics - Tools
  - MATH 1601 - Statistical Reasoning
- MATH 4611 - Intro Applied Statistics

## Team and Organizational Relations (3 Hours)

*Take one course from the following group:*

- COMM 4011 - Communication in Organizations
- COMM 4342 - Small Group Communication
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- COUN 4621 - Human Interactions
- COUN 4781 - Strategy/Crisis Intervention

## Written Communication (3 Hours)

*Take one course from the following group:*

- ENGL 3601 - Technical and Profess Writing
- ENGL 3602 - Professional Editing
- ENGL 3603 - Engineering Communications
- ENGL 3604 - Persuasive Writing
- MGMT 3510 - Business Communications

## Social & Cultural Context (3 Hours)

*Take one course from the following group:*

- ANTH 4412 - Neighborhood Development
- ANTH 3511 - Culture/Kin/Family
- CJUS 4180 - Corporate/White Collar Crime
- CJUS 4235 - Security Management
- COMM 3003 - Television and Culture
- SLS 3105 - Sport/Leisure as Pop Culture
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 3831 - Marriage and Family
- SOCI 4631 - Cities in Change

## Political & Economic Context (3 Hours)

Take one course from the following group:

- ACCT 3130 - Legal/Social/Political Environ
  - ECON 3411 - Economics of Social Issues
  - ECON 4130 - Government Regulation of Business
- HIST 4824 - Business History
- POLS 4510 - Politics of Global Economy
- ESCI 4430 - Economic Geography

## Technology & Culture (3 Hours)

Take one course from the following group:

- COMM 4014 - Communication on the Internet
- HIST 3035 - Technology/Culture Am History
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Theatre - Dance Concentration, (B.F.A.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that DANC 1151 or THEA 1030 and THEA 4548 or THEA 4549 will satisfy the General Education Humanities requirement. However, a minimum grade of "C-" is required in all departmental courses applicable to the major. Dance majors are required to take MUS 1030 as a second Humanities/Fine Arts requirement.

### The Major (79 hours)

#### Major Core (11 hours)

Completion of

- THEA 1561 - Introduction to Design
- or
- THEA 2511 - Intro Theatre Production
- THEA 3412 - Directing Experiments
  - THEA 3601-3609
- THEA 4541 - Internship

#### Note

While not listed within the previous course numbers, please note that DANC 1151 , THEA 4548 and THEA 4549 are courses that are used to satisfy a Humanities/Fine Arts General Education requirement. Transfer students who have completed the Humanities/Fine Arts requirements and have not taken any of these in order to fulfill the requirements of the concentration must do so as a department elective.

### Concentration (68 hours)

#### Dance

- DANC 2101 - Dance Improvisation
- DANC 2825 - Ballet II Credits / Units: 12
- DANC 3201 - Dance Movement Analysis
- DANC 3829 - Adv Dance Techniques Credits / Units: 12
- DANC 4101 - Dance Repertory
- DANC 4201 - Dance Composition



- DANC 4202 - Adv Dance Composition
- DANC 4402 - Dance Ed/Diverse Setting
- DANC 4404 - Dance Teaching Methods

## Remaining Courses

Remaining courses are dance and acting emphasis electives (15) and free electives (5) approved the student's advisor.

## Typical 4-Year Dance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Social Science (3) \*
- DANC 1151 - Introduction to Dance
  - DANC Elective (3)
- THEA 2511 - Intro Theatre Production or
- THEA 1561 - Introduction to Design
  - THEA 3601-THEA 3609
- ENGL 1020 - English Comp/Analysis
  - Social Science (3) \*
  - DANC Elective (3)
- THEA 3412 - Directing Experiments
  - THEA 3601-THEA 3609
- MUS 1030 - Introduction to Music

Semester Totals 32 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American
  - DANC Elective (3)
- DANC 2101 - Dance Improvisation
- DANC 4201 - Dance Composition
- THEA 2501 - Stage Movement
- COMM 2381 - Oral Communication
  - History (3) \*
  - MATH (3) \*
- DANC 2827 - Jazz Dance II
- DANC 4202 - Adv Dance Composition

Semester Totals 30 hrs

## Junior Year

- DANC 2825 - Ballet II
- DANC 3101 - History of Dance
- DANC 3829 - Adv Dance Techniques
- DANC 4101 - Dance Repertory

DANC Elective

- DANC 4402 - Dance Ed/Diverse Setting
  - Natural Science
  - DANC 2825
  - DANC 3829

Semester Totals 28 hrs

## Senior Year

- History (3) \*
- DANC 2825 - Ballet II
- DANC 3201 - Dance Movement Analysis
- DANC 3829 - Adv Dance Techniques
- THEA 4541 - Internship
- DANC 4404 - Dance Teaching Methods
  - Natural Science (4) \*
  - Elective (3)
  - DANC 2825 - Ballet II (3)
  - DANC 3829 - Adv Dance Techniques (3)

Semester Totals 30 hrs

Total Hours: 120

Total Hours required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Theatre - Design and Technical Production Concentration, (B.F.A.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that DANC 1151 or THEA 1030 and THEA 4548 or THEA 4549 will satisfy the General Education Humanities requirement. However, a minimum grade of "C-" is required in all departmental courses applicable to the major. Dance majors are required to take MUS 1030 as a second Humanities/Fine Arts requirement.

### The Major (79 hours)

#### Major Core (11 hours)

Completion of

- THEA 1561 - Introduction to Design
- or
- THEA 2511 - Intro Theatre Production
- THEA 3412 - Directing Experiments
  - THEA 3601-3609
- THEA 4541 - Internship

#### Note

While not listed within the previous course numbers, please note that DANC 1151, THEA 4548 and THEA 4549 are courses that are used to satisfy a Humanities/Fine Arts General Education requirement. Transfer students who have completed the Humanities/Fine Arts requirements and have not taken any of these in order to fulfill the requirements of the concentration must do so as a department elective.

### Concentration (68 hours)

#### Design and Technical Production:

- THEA 1561 - Introduction to Design
- or
- THEA 2511 - Intro Theatre Production (whichever is not taken as part of the Major Core)
- THEA 2512 - Intro Theatre Graphics
- THEA 3511 - Stagecraft

or

- THEA 3515 - Costume Construction
- THEA 3561 - Principles Scene Design
- THEA 3562 - Principles Costume Dsgn
- THEA 3563 - Principles of Light& Sound Design
  - THEA 3601-3609
- THEA 4542 - Dramatic Literature I
- THEA 4543 - Dramatic Literature II
- THEA 4582 - Script Interpretation
- THEA 4591 - Professional Theatre Practice

### Ten hours of Technology Courses:

- THEA 4555 - Scenic Technology
- THEA 4556 - Lighting Technology
- THEA 4557 - Costume Technology

### Sixteen hours of Design courses:

- THEA 4561 - Scenic Design I
- THEA 4562 - Lighting Design I
- THEA 4563 - Costume Design I
- THEA 4596 - Sound Design I

### Remaining Credits (6)

Remaining credits (6) are Design and Technical courses, other department courses, or non-department electives approved by the student's advisor.

## Typical 4-Year Design and Technical Production Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3) \*
  - History (3) \*
- THEA 1030 - Intro to Theatre
- THEA 1561 - Introduction to Design
  - THEA 3601-THEA 3609
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences (3) \*
  - History (3) \*
- THEA 2511 - Intro Theatre Production
- THEA 2512 - Intro Theatre Graphics
  - THEA 3601-THEA 3609

## Semester Totals 32 hrs

### Sophomore Year

- Natural Science (4) \*
- Social/Behavioral Sciences (3) \*
- Elective
- Design Course
- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American
- THEA 3561 - Principles Scene Design or
- THEA 3562 - Principles Costume Dsgn
  
- COMM 2381 - Oral Communication
- THEA 3511 - Stagecraft
- THEA 3412 - Directing Experiments
- THEA 3563 - Principles of Light& Sound Design
  - Technology Course
- THEA 4582 - Script Interpretation

## Semester Totals 34 hrs

### Junior Year

- THEA 3561 - Principles Scene Design or
- THEA 3562 - Principles Costume Dsgn
  - Design Course
  - Design Course
  - THEA 3601-THEA 3609
  - Technology Course
- THEA 4554 - Visual History I
  - Technology Course
  - Design Course
- THEA 4549 - Theatre History
  - THEA 3601-THEA 3609
- THEA 4558 - Visual History II
  - Elective (3)

## Semester Totals 27 hrs

### Senior Year

- Technology Course
- THEA 4541 - Internship
- THEA 4542 - Dramatic Literature I
  - Design Course
  - Design Course

- THEA 3601-THEA 3609
- THEA 4591 - Professional Theatre Practice
  - Natural Science (3)
  - THEA 3601-THEA 3609
  - Design Course
  - Design Course
  - Elective (3)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Theatre - Musical Theatre Concentration, (B.F.A.)**

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that DANC 1151 or THEA 1030 and THEA 4548 or THEA 4549 will satisfy the General Education Humanities requirement. However, a minimum grade of "C-" is required in all departmental courses applicable to the major. Dance majors are required to take MUS 1030 as a second Humanities/Fine Arts requirement.

The Major (79 hours)

Major Core (11 hours)

Completion of

- THEA 1561 - Introduction to Design
- or
- THEA 2511 - Intro Theatre Production
- THEA 3412 - Directing Experiments
  - THEA 3601-3609
- THEA 4541 - Internship

## Note

While not listed within the previous course numbers, please note that DANC 1151 , THEA 4548 and THEA 4549 are courses that are used to satisfy a Humanities/Fine Arts General Education requirement. Transfer students who have completed the Humanities/Fine Arts requirements and have not taken any of these in order to fulfill the requirements of the concentration must do so as a department elective.

## Concentration (68 hours)

### Musical Theatre

- THEA 2501 - Stage Movement
- THEA 2503 - Basic Keyboard Skills/Actors
- THEA 2532 - Acting I
  - THEA 3200
- THEA 3212 - Dynamics/Vocal Prod I
- THEA 3213 - Dynamics/Vocal Prod II
- THEA 3531 - Acting II
- THEA 3551 - Audition Prep Performance
  - THEA 3601-3609
- THEA 4220 - Acting/Musical Theatre
- THEA 4223 - Musical Theatre Performance Practicum
- THEA 4224 - Principle/Music Theory/Theatre
- THEA 4542 - Dramatic Literature I
- THEA 4548 - Musical Theatre History
- THEA 4582 - Script Interpretation
- THEA 4591 - Professional Theatre Practice

### Remaining Courses

Remaining courses are Dance elective (12) and free electives (8) approved by the student's advisor.

## Typical 4-Year Musical Theatre Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- THEA 1030 - Intro to Theatre
- THEA 2511 - Intro Theatre Production or
- THEA 1561 - Introduction to Design
- THEA 2501 - Stage Movement
- THEA 2503 - Basic Keyboard Skills/Actors
- THEA 4224 - Principle/Music Theory/Theatre
  
- ENGL 1020 - English Comp/Analysis

- Social/Behavioral Sciences (3) \*
- MATH (3) \*
- History (3) \*
- THEA 3412 - Directing Experiments
  - THEA 3601-THEA 3609

Semester Totals 32 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- THEA 3212 - Dynamics/Vocal Prod I
  - DANC (Ballet) (3)
- THEA 3200 - Musical Theatre Applied Voice
- THEA 2532 - Acting I
  - THEA 3601-THEA 3609
- COMM 2381 - Oral Communication
  - History (3) \*
  - THEA 3200 - Musical Theatre Applied Voice (1)
  - DANC (Ballet)
- THEA 3213 - Dynamics/Vocal Prod II
- THEA 3531 - Acting II

Semester Totals 30 hrs

## Junior Year

- THEA 3200 - Musical Theatre Applied Voice
- THEA 3551 - Audition Prep Performance
- DANC 3826 - Musical Theatre Dance I
  - Elective (3)
  - THEA 3601-THEA 3609
- THEA 4220 - Acting/Musical Theatre
- THEA 4223 - Musical Theatre Performance Practicum
  - Social/Behavioral Sciences (3) \*
  - THEA 3200 - Musical Theatre Applied Voice (1)
- THEA 4548 - Musical Theatre History
- DANC 3827 - Musical Theatre Dance II
  - THEA 3601-THEA 3609



Semester Totals 28 hrs

## Senior Year

- Natural Science (4) \*
- THEA 3200 - Musical Theatre Applied Voice
- THEA 4542 - Dramatic Literature I
- THEA 4541 - Internship
- THEA 4582 - Script Interpretation
  - Elective (3)
- THEA 4549 - Theatre History
  - THEA 3200
  - Natural Science (4) \*
- THEA 4591 - Professional Theatre Practice
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Theatre - Performance Concentration, (B.F.A.)**

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that DANC 1151 or THEA 1030 and THEA 4548 or THEA 4549 will satisfy the General Education Humanities requirement. However, a minimum grade of "C-" is required in all departmental courses applicable to the major. Dance majors are required to take MUS 1030 as a second Humanities/Fine Arts requirement.

## The Major (79 hours)

### Major Core (11 hours)

Completion of

- THEA 1561 - Introduction to Design
- or
- THEA 2511 - Intro Theatre Production
- THEA 3412 - Directing Experiments
  - THEA 3601-3609
- THEA 4541 - Internship

### Note

While not listed within the previous course numbers, please note that DANC 1151 , THEA 4548 and THEA 4549 are courses that are used to satisfy a Humanities/Fine Arts General Education requirement. Transfer students who have completed the Humanities/Fine Arts requirements and have not taken any of these in order to fulfill the requirements of the concentration must do so as a department elective.

## Concentration (68 hours)

### Performance

- THEA 2501 - Stage Movement
- THEA 2532 - Acting I
- THEA 3212 - Dynamics/Vocal Prod I
- THEA 3213 - Dynamics/Vocal Prod II
- THEA 3505 - Movement Styles
- THEA 3506 - Stage Combat
- THEA 3531 - Acting II
- THEA 3532 - Acting III
- THEA 3551 - Audition Prep Performance
  - THEA 3601-3609
- THEA 4457 - Vocal Style/Performance
- THEA 4542 - Dramatic Literature I
- THEA 4582 - Script Interpretation
- THEA 4591 - Professional Theatre Practice

### Remaining Courses

Remaining courses are acting emphasis electives (18) and free electives (9) approved by the student's advisor.

## Typical 4-Year Performance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3) \*
  - History (3) \*
- THEA 1030 - Intro to Theatre
  - THEA 3601-THEA 3609
- THEA 2511 - Intro Theatre Production or
- THEA 1561 - Introduction to Design
  
- ENGL 1020 - English Comp/Analysis
  - Natural Science (4) \*
  - History (3) \*
- THEA 3412 - Directing Experiments
  - THEA 3601-THEA 3609
  - Social/Behavioral Sciences (3) \*

Semester Totals 33 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American
- THEA 3212 - Dynamics/Vocal Prod I
- THEA 2501 - Stage Movement
- THEA 2532 - Acting I
  - THEA 3601-THEA 3609
  - Elective
  
- COMM 2381 - Oral Communication
- THEA 3505 - Movement Styles
- THEA 3213 - Dynamics/Vocal Prod II
  - THEA 3601-THEA 3609
- THEA 3531 - Acting II
- THEA 4582 - Script Interpretation

Semester Totals 32 hrs

### Junior Year

- THEA 3551 - Audition Prep Performance
  - Social/Behavioral Sciences (3) \*
- THEA 3532 - Acting III
- THEA 4557 - Costume Technology

- Elective (3)
- THEA 3506 - Stage Combat
  - Elective (3)
  - Elective (3)
- THEA 4549 - Theatre History

Semester Totals 27 hrs

## Senior Year

- Elective (3)
- Natural Science (4) \*
- THEA 4542 - Dramatic Literature I
  - Elective (3)
- THEA 4541 - Internship
- THEA 4591 - Professional Theatre Practice
  - Elective (3)
  - Elective (3)
  - Elective (3)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Urban Studies (B.P.S.)

This program provides a structure of study for students interested in the origin, evolution, and function of cities and metropolitan areas. Courses have been chosen to allow exploration of multiple perspectives on the dynamics of urban change, the causes of urban problems, and the sources of urban innovation. Special emphasis is given to the physical development of communities, and the interaction of that development with the social, economic, and environmental well being of communities. The curriculum considers theories, ideologies, and practices to support solutions to urban and regional problems and offers students opportunities to engage in addressing local challenges with community partners. This course of study prepares students for pursuit of a professional master's degree in a related discipline (e.g., City Planning, Public Policy, Public Administration, etc).

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Professional Core

### A. Urban Studies Foundations

The following courses are required (15 hrs):

- PLAN 3451 - Introduction to Planning (Crosslisted with ESCI 3451)
- PLAN 4003 - Community Economic Development
- PLAN 4201 - Urbanization and Environment (Crosslisted with ESCI 4201)
- PLAN 4551 - Urban Planning Studio (Crosslisted with ESCI 4551)
- ANTH 4010 - Ethnographic Methods

### B. Urban Studies Support (Choose 15 hrs)

- PLAN 4261 - Plan Sustainable CitiesRegions (Crosslisted with ESCI 4261)
- PLAN 4004 - Community Organizing
- ARCH 1211 - History of Architecture 1
- ARCH 2212 - History of Architecture 2
- ESCI 4515 - Geographic Info Science
- ESCI 4443 - Transportation Planning
- ANTH 4412 - Neighborhood Development
- ECON 4220 - Urban Economics
- POLS 3211 - State/Local Government

### C. Urban Studies Exploration (Choose 15 hrs)

May use any of the Group B courses not used toward the Urban Studies Support requirement to satisfy Urban Studies Explorations (15 hrs)

- PLAN 4002 - Urban Food Security
- ANTH 3282 - American Communities
- ANTH 4411 - Urban Anthropology
- ARCH 3221 - Determinants of Modern Design
- ARCH 3222 - Contemporary Architecture 1
- ARCH 4022 - Architecture+Urbanism Seminar
- ARCH 4023 - Urban Design Seminar
- ARCH 4231 - Issues in City Building
- ARCH 4421 - Sustainable Design
- ESCI 4431 - Urban Geography
- POLS 3213 - Intro to Public Policy
- SOCI 4442 - Sociology of Poverty

- SOCI 4631 - Cities in Change
- SWRK 2010 - Introduction to Social Work

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses: [http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Elective (25-31 hrs)

Electives may be chosen to bring the total number of hours to 120 with a minimum of 42 upper division hours.

## Experiential Learning Credit

Experiential Learning Credit may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or noncollege instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area. Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures described above. More detailed information about procedures may be obtained from the individual colleges.

## Visual Merchandising and Exhibition Design (B.P.S.)

The Visual Merchandising and Exhibition Design concentration is an interdisciplinary program and comprises developing environments such as homes, stores, display windows and other merchandise displays; as well Exhibition Design, including trade shows and installations at large scale events, like pop-up stores.

## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Visual Merchandising and Design Core (12 hours)

- MRCH 2000 - Visual Imaging for Fashion and Merchandising
- MRCH 2010 - Textiles
- MRCH 3215 - Textiles Applications
- MRCH 3000 - Color and Basic Design Studies and Applications

## Visual Merchandising & Exhibition Design Concentration (24 hours)

- MRCH 2004 - Tech Skills for Merchandising
- MRCH 2106 - 3D Visual Merchandising
- MRCH 3204 - Residential Kitchen Planning
- MRCH 3600 - Consumer Engagement in the Digital Era
- MRCH 4204 - Furnishing Prblms/Presentatns
- MRCH 4304 - Trends Housing Home Furnishing

Choose any appropriate upper division courses from Art, Theater, etc. for the remaining 6 hours. Courses from other departments should be discussed with your advisor/program coordinator before registering to determine appropriateness for concentration

## Senior Year Requirements (6 hours)

The senior collection is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior collection is intended to fuse all the academic areas that comprise the student's understanding of developing a fashion collection into a relevant example of scholarship to be showcased down the runway. Students will complete a collection of their choice with approval of their senior collection instructor. The senior collection is completed during a student's final semester.

- MRCH 4600 - Senior Seminar
- UNIV 4110 - Internship

## Thematic Studies (6 hours)

University College thematic studies course(s) are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Review a complete list of courses: [http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

- MRCH 4205 - Behavioral Sci Aspects Clothng
- MRCH 3050 - Costume History

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## World Languages and Literatures, (B.A.)

Program objectives for a B.A. in World Languages and Literatures are: (a) have functional control of the appropriate fundamental language skills for the principal language of the major. For modern languages, these include speaking, listening, reading, and writing. For ancient languages, these include reading, reciting in a standard scholarly reconstructed pronunciation, and the ability to analyze grammatical structures in detail; (b) be able to describe and critically evaluate the cultural assumptions and points of view of the targeted culture(s) of their principal language of concentration; (c) Be able to describe and appreciate the interplay of literature, language, history, and culture in the principal language of concentration.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements and are listed above.

## The Major (24-33 hours)

Successful completion of one of the following concentrations:

1. A single-language concentration in French, Chinese, German, Italian, Japanese, or \*Spanish: 24 upper division semester hours.
2. A two-language concentration chosen from Chinese, French, German, Italian, Japanese, Portuguese, Russian, and Spanish: 27 upper division semester hours with a minimum of 9 semester hours in each language.
3. A three-language concentration chosen from Chinese, French, German, Italian, Japanese, Portuguese, Russian, and Spanish: All three language concentrations require prior consultation with the approval of the department chair. Plans will normally include at least 33 upper division semester hours to include at least 12 semester hours in each of two languages plus approved course work in a third language.

\* Students with a single-language concentration in Spanish must take

- SPAN 4410 - Spanish Lit and Civilization
- SPAN 4510 - Spanish Amer Lit/Civilization
- SPAN 4563 - Hispanic Literature Genres



## Electives

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year French Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3-4) \*
  - Social/Behavioral Science (3) \*
  - Elective (3)
- FREN 2010 - Intermediate French I
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Social/Behavioral Science (3) \*
  - Humanities (3) \*
- FREN 2020 - Intermediate French II

Semester Totals 30-31 hrs

### Sophomore Year

- COMM 2381 - Oral Communication
  - Elective (3)
  - Natural Science (4) \*
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- FREN 3301 - Conversation and Composition
  - Elective (3)
  - Elective (3)
  - Natural Science (4) \*
- FREN 3302 - Conversation and Composition
  - UD FREN (3)

Semester Totals 32 hrs

## Junior Year

- History (3) \*
- Fine Arts (3) \*
- Elective (3)
- UD FREN (3)
- UD Elective (3)
- History (3) \*
- Elective (3)
- UD FREN (3)
- UD Elective (3)
- Elective (3)

Semester Totals 30 hrs

## Senior Year

- UD FREN (3)
- UD FREN (3)
- Elective (3)
- UD elective (3)
- UD elective (3)
- UD FREN (3)
- UD elective (3)
- UD elective (3)
- Elective (3)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Typical 4-Year Spanish Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3-4) \*
  - Social/Behavioral Science (3) \*
- SPAN 2010 - Intermediate Spanish I
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Social/Behavioral Science (3) \*
- SPAN 2020 - Intermediate Spanish II
  - Humanities (3)

Semester Totals 30-31 hrs

### Sophomore Year

- COMM 2381 - Oral Communication
    - Fine Arts (3) \*
    - Natural Science (4) \*
    - UD SPAN (3)
  - ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
    - UD elective (3)
    - Elective (3)
    - Natural Science (4) \*
    - UD SPAN (3)
    - UD SPAN (3)

Semester Totals 32 hrs

### Junior Year

- History (3) \*
- UD SPAN (3)
- Elective (3)
- Elective (3)
- UD elective (3)
- History (3) \*
- Elective (3)
- Elective (3)

- UD Elective (3)
- SPAN 4563 - Hispanic Literature Genres

Semester Totals 30 hrs

## Senior Year

- Elective (3)
- SPAN 4410 - Spanish Lit and Civilization
  - UD SPAN (3)
  - UD elective (3)
  - Elective (3)
- SPAN 4510 - Spanish Amer Lit/Civilization
  - UD elective (3)
  - UD elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### Accounting Minor

#### Requirements

For students whose major is in another college of the University (18 hours):

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ACCT 3110 - Intermediate Accounting I
- ACCT 3120 - Intermediate Accounting II
- ACCT 3310 - Cost Accounting
- ACCT 4130 - Intermediate Accounting III

For students whose major is in a department in The Fogelman College of Business and Economics (12 hours):

- ACCT 3110 - Intermediate Accounting I
- ACCT 3120 - Intermediate Accounting II
- ACCT 3310 - Cost Accounting
- ACCT 4130 - Intermediate Accounting III

## **Advertising Minor**

To complete the minor in Advertising, a student must earn 18 hours of credit in the Department of Journalism and Strategic Media meeting the following conditions:

(NOTE: Coursework for the minor will be determined by the student in conference with the advisor with the approval of the department chair.)

### **Advertising Minor Core**

- JRSM 1750 - Precision Language
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
- ADVR 3300 - Survey of Advertising

Select Two of the Following:

- ADVR 3310 - Branding and Strategic Media
- ADVR 3324 - Creative Strategy
- ADVR 4326 - Advertising Research
- ADVR 4327 - Media Planning
- ADVR 4328 - Strategic Adv Campaigns
- JOUR 4900 - Advanced Visual Media

## **Aerospace Studies Minor**

### **Requirements**

Upon successful completion of 16 semester hours in Aerospace Studies with a minimum grade of C, a cadet may apply for a minor in Aerospace Studies.

## **African and African American Studies Minor**

Completion of 18 semester hours including AAAS 2100, AAAS 3100, and 12 hours of electives from the following groups, with at least 3 hours from each group. Students may also choose other courses not on the following list as substitutions with the approval of the African and African American Studies advisor:

## Requirements

### Humanities:

- AAAS 4351 - Ghanaian Hist/Culture
- ENGL 3325 - Af/Am Lit thru Harlem Ren
- ENGL 3326 - Af/Am Lit since Harlem Ren
- ENGL 4372 - Af/Am Author/Harlem Ren
- ENGL 4373 - Af/Am Author since Harlem Ren
- ENGL 4374 - African-Amer Lit Movements
- ENGL 4521 - Language and Society
- HIST 3233 - Caribbean History
- HIST 3273 - Islamic History to 1405
- HIST 3281 - History/Africa to 1500
- HIST 3282 - History of Africa since 1500
- HIST 3670 - Civil War/Reconstruction
- HIST 3840 - U S Constitutional History
- HIST 3881 - African American History
- HIST 4022 - Oral History
- HIST 4050 - Special Topics in History
- HIST 4051 - Special Topics in History
- HIST 4052 - Special Topics in History
- HIST 4053 - Special Topics in History
- HIST 4054 - Special Topics in History
- HIST 4055 - Special Topics in History
- HIST 4056 - Special Topics in History
- HIST 4057 - Special Topics in History
- HIST 4058 - Special Topics in History
- HIST 4059 - Special Topics in History
- HIST 4060 - Special Topics in History
- HIST 4061 - Special Topics in History
- HIST 4062 - Special Topics in History
- HIST 4063 - Special Topics in History
- HIST 4064 - Special Topics in History
- HIST 4065 - Special Topics in History
- HIST 4066 - Special Topics in History
- HIST 4067 - Special Topics in History
- HIST 4068 - Special Topics in History
- HIST 4069 - Special Topics in History (Special Topics related to African American experience)
- HIST 4283 - History/South Africa
- HIST 4288 - West Africa/Diaspora
- HIST 4289 - African Women's History
- HIST 4853 - African American Women
- HIST 4871 - U S Urban History
- HIST 4879 - Africa to the Americas
- HIST 4880 - Slavery/Freedom/Segregation
- HIST 4882 - Civil Rights Movement
- PHIL 3452 - Feminist Theory
- PHIL 3741 - African American Philosophy

### Social and Behavioral Sciences:

- AAAS 4251 - African Religions/Diaspora
- ANTH 3242 - Peoples of Africa
- ANTH 3282 - American Communities
- ANTH 3511 - Culture/Kin/Family

- ANTH 4010 - Ethnographic Methods
  - ANTH 4051
- ANTH 4120 - Africa's New World Comm
- ANTH 4220 - Cultural Perspec/Environment
- ANTH 4352 - Old World Archaeology
- ANTH 4411 - Urban Anthropology
- ANTH 4412 - Neighborhood Development
- ANTH 4571 - Race and Health Disparities
- ANTH 4660 - Museum Collections
- ANTH 4661 - Collections Research
- ANTH 4662 - Museum Exhibitions
- CJUS 3510 - Law and Society
- CJUS 4460 - Race/Ethnicity/Gender/America
- ESCI 4431 - Urban Geography
- ECON 4740 - Health Care Economics
- POLS 3306 - Latin American Govt/Politics
- POLS 3320 - Human Rights/World Politics
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3415 - Feminist Political Theory
- POLS 3420 - Race and Politics in U.S.
- POLS 4101 - Political Statistics
- POLS 4222 - Urban Politics
- POLS 4317 - Democratic Transitions
- POLS 4415 - African-Am Pol Thght to 1900
- POLS 4416 - African-Am Pol Tht from 1900
- POLS 4511 - International Security
- SOCI 3112 - Contemporary Social Problems
- SOCI 3311 - Social Statistics
- SOCI 3401 - Social Inequality
- SOCI 3420 - Sociology of the South
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 4420 - Racial Inequality
- SOCI 4442 - Sociology of Poverty
- SOCI 4460 - Black/White Women in South

## The Arts:

- ARTH 4111 - Art/Archaeology of Egypt
- ARTH 4112 - Egypt Art-Old Kingdom
- ARTH 4113 - Egypt Art-New Kingdom
- ARTH 4181 - Arts Africa/Oceania/N America
- ARTH 4183 - Visual Arts of Africa
- ARTH 4185 - African American Art
- ARTH 4660 - Museum Collections
- ARTH 4662 - Museum Exhibitions
- COMM 3360 - Rhetoric/Pop Culture
- COMM 3361 - African-American Rhetoric
- COMM 4341 - Interpersonal Communication
- COMM 4364 - Voices/American Women
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4804 - Blues
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music
- THEA 4544 - Thea/African Diaspora

## Alcohol and Drug Abuse Services Minor

### Requirements (18 hours)

This interdisciplinary minor examines societal alcohol and drug abuse from the perspectives of anthropology, counseling, criminal justice, psychology, and sociology. The minor is open to students majoring in any area within any undergraduate college at The University of Memphis or to special students who wish to enroll in order to take such a program.

### Required Core Courses (9 hours)

- ANTH 4531 - Alcohol/Drugs/Culture
- COUN 4783 - Alcohol/Drug Abuse Services
- PSYC 3507 - Alcohol/Drugs/Behavior

### Plus 3 Additional Courses from the Following List (9 Hours)

- CJUS 3152 - Drug Addiction and Alcoholism
- COUN 4781 - Strategy/Crisis Intervention
- SOCI 3501 - Sociology of Deviant Behavior
- SOCI 3112 - Contemporary Social Problems
- SOCI 4851 - Medical Sociology

## American Studies Minor

The American Studies minor engages students in an examination of the culture and society of the United States, with attention paid to the ways in which Americans express their basic values and give meaning to their institutions and everyday social practices. These values, institutions, and practices are a reflection, in part, of the different experiences of a people, according to their race, gender, class, and historical roots. This minor provides an opportunity to explore the commonalities and differences among Americans through an interdisciplinary course of study.

### Requirements

### Required Core Courses (6 hours)

UNIV 35xx and/or UNIV 45xx



## Elective Courses (12 hours)

Select one course from each of the following groups, plus two additional courses from these groups. No more than two courses from any single department will be accepted.

### Group 1

- COMM 4381 - Senior Capstone
- COMM 4851 - Film History II
- COMM 4856 - Gender and Film
- ENGL 3325 - Af/Am Lit thru Harlem Ren
- ENGL 3326 - Af/Am Lit since Harlem Ren
- ENGL 3327 - American Literature to 1865
- ENGL 3328 - American Literature since 1865
- ENGL 3521 - The American Language
- MUHL 4801 - American Folk/Popular Music
- MUHL 4804 - Blues
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music

### Group 2

- ANTH 3282 - American Communities
  - ANTH 4336 - Native Peoples of the Southeastern United States
  - ESCI 3401 - Historical Geography of the U.S.
- HIST 3035 - Technology/Culture Am History
- HIST 3863 - Social/Intellect History of U S
- HIST 4701 - U S 1914 to World War II
- HIST 4851 - History of Women in America
- HIST 3941 - History of American Indian
- SOCI 3420 - Sociology of the South
- SOCI 4420 - Racial Inequality

## Additional Information

With the signed permission of the dean of the University College or the dean's designate, the following are acceptable: (1) A course from Group 1 of Section B can be substituted for one of the courses in Section A. (2) Up to two courses may be substituted for those listed in Section B. In content and approach, these courses will have a distinct American Studies emphasis.

## Anthropology Minor

### Requirements

Completion of 18 semester hours in anthropology courses, including

- ANTH 1100 - Biol Anth & Prehistory
- ANTH 1200 - Cultural Anthropology
- ANTH 3200 - Peoples/Cultures World
- ANTH 4065 - Anthropological Theory

## Art History Minor

### Requirements

Completion of 18 semester hours in Art History, including two courses selected from:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts
  - 12 semester hours from the ARTH 4000-level courses.

## Asian Studies Minor

### Requirements

A minimum of 18 semester hours, including

- CHIN 2010 - Intermediate Chinese I
- and
- CHIN 2020 - Intermediate Chinese II
- or
- JAPN 2010 - Intermediate Japanese I
- and
- JAPN 2020 - Intermediate Japanese II

### 6 Semester Hours from

- CHIN 4301 - Modern Chinese Fiction
- HIST 3291 - Modern Asia
- HIST 4292 - Modern China 1800-Present
- HIST 4294 - Modern Japan 1800-Present
- PHIL 3721 - Chinese Philosophy

## 6 Semester Hours from

- ESCI 4307 - Thematic Studies/China
- POLS 4307 - Govt and Pol Communist China
- UNIV 4506 - The Chinese

## Banking and Financial Services Minor

### Requirements

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (9 hours):

- FIR 3720 - Financial Markets
- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions

For Students Whose Major Is Within Another College at the University (21 hours)

- ACCT 2010 - Fundamentals of Acct I
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- FIR 3410 - Financial Management
- FIR 3720 - Financial Markets
- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions

## Biology Minor

### Requirements

Completion of 18 semester hours in biology courses including

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab
  - 10 upper division hours

## Note

No more than four total credit hours of research and practicum (BIOL 4000, BIOL 4001, BIOL 4570) can be applied toward minor requirements.

## **Business Economics Minor**

### Requirements

For students whose major is in another college of the University:

18 semester hours in economics courses, including

- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
  - 12 additional upper division hours in courses as approved by the department chair.

For students whose major is in another department in The Fogelman College of Business and Economics:

Either

- ECON 3310 - Microeconomic Theory
- or
- ECON 3320 - Macroeconomic Theory

Plus

nine additional upper division hours in economics approved by the department chair.

## **Business Finance Minor**

### Requirements

## For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics:

9 upper division hours in finance approved by the finance undergraduate career advisor or department chair.

## For Students Whose Major Is Within Another College at the University (21 hours):

- ACCT 2010 - Fundamentals of Acct I
- ECON 2020 - Intro to Microeconomics
- FIR 3410 - Financial Management
- FIR 3710 - Investments
- FIR 3720 - Financial Markets
  - Six additional upper division hours approved by the finance undergraduate career advisor or department chair

## **Business Information and Technology Minor**

### Requirements

## For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (12 hours):

- MIS 3770 - System Analysis Methods
- MIS 3775 - Database/Information Management
- MIS 3790 - Enterprise Architecture
- MIS 4800 - Strategy/Mgmt/Acquisition

## For Students Whose Major Is Within Another College of the University (18 hours):

- MIS 2749 - Foundation/Information Systems
- MIS 3210 - Critical Thinking Using Analytics
- MIS 3770 - System Analysis Methods
- MIS 3775 - Database/Information Management
- MIS 3790 - Enterprise Architecture
- MIS 4800 - Strategy/Mgmt/Acquisition

## Chemistry Minor

### Requirements

Completion of 20 semester hours in chemistry courses, including

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
  - 12 semester hours selected from courses applicable to the chemistry major and including at least two chemistry laboratory courses.

## Child Development Minor

This interdisciplinary minor will attract students with majors in education, family and consumer studies, human services, nonprofit administration, psychology, social work, and related areas.

### Requirements

#### Required Courses (9 hours)

- EDPR 2111 - Development Across Lifespan
- PSYC 3103 - Child Psychology
- CDFS 3401 - Parent Child Relations

#### Plus 9 Additional Upper Division Hours From:

- ANTH 3511 - Culture/Kin/Family
- CDFS 3410 - Soc Emotion Lrng Early Child
- CDFS 4220 - Understand Chldn/Behv/Guide
- HIST 4863 - History/Childhood in America
- PSYC 3305 - Psyc Learning/Memory
- PSYC 4034 - Children Soc Relationships
- PSYC 4102 - Abnormal Child Psych
- SWRK 4934 - Child Welfare Policy/Services

## Classical Studies Minor

Those who value education because they value the ability to think clearly and express ideas powerfully, often choose the liberal arts. The Classical Studies Minor is proposed to expose students to the very foundation of the liberal arts and "Western Tradition." A minor in Classical Studies can serve as a prestigious and powerful springboard for professional careers in areas such as law, journalism,

medicine, and business. Those who are interested in the beauty and study of antiquity may also pursue careers in teaching, academics, or museum work. The Classical Studies minor is comprised of courses which span different departments and colleges.

## Requirements

A total of 18 hours as follows:

### Core:

9 hours from the following with no more than 2 courses from any one subject area:

- LATN 1010 - Elementary Latin I
- LATN 1020 - Elementary Latin II
- LATN 2010 - Intermediate Latin I
- LATN 2020 - Intermediate Latin II
  - GREK 1010 - Elementary Greek I (3)
  - GREK 1020 - Elementary Greek II (3)
  - GREK 2010 - Intermediate Greek I (3)
  - GREK 2020 - Intermediate Greek II (3)
- CLAS 2481 - Mythology
- POLS 1101 - Intro Ancient Political Thgt

### Elective Courses:

9 hours from the following with no more than 2 courses from any one subject area:

- ARTH 4111 - Art/Archaeology of Egypt
- ARTH 4112 - Egypt Art-Old Kingdom
- ARTH 4113 - Egypt Art-New Kingdom
- ARTH 4121 - Ancient Art Near East
- ARTH 4123 - Greek Art
- ARTH 4124 - Roman Art
- ARTH 4125 - Art/Archaeology Pompeii
- ARTH 4129 - Ancient/Medieval Architecture
- CLAS 3021 - Medical Terminology
  - CLAS 3412 - Roman Culture (3)
- CLAS 3413 - Greek Lit in Translation
- CLAS 3414 - Roman Lit in Translation
  - CLAS 4000 - Capital Punishment in the Ancient World (3)
  - CLAS 4001 - Science and Engineering in Classical Antiquity (3)
- CLAS 4780 - Individual Study Classics
- CLAS 4791 - Studies in Classics
- ENGL 4461 - Bible as Literature
- HIST 3320 - Ancient World
- HIST 4320 - Ancient Near East
- HIST 4321 - Greek Experience
- HIST 4322 - The Roman World
- HIST 4323 - Egypt of the Pharaohs
- HIST 4361 - History of Byzantine Empire
- PHIL 3001 - History of Ancient Philosophy
- PHIL 4211 - Ancient Philosophy
- POLS 3401 - Legal/Pol Thght Classical

## Cognitive Science Minor

This minor exposes students to Cognitive Science, the interdisciplinary study of the mind. Courses in the minor come from psychology, computer science, philosophy, and linguistics and provide a framework for addressing issues related to human-computer interaction, theory of mind, artificial intelligence, education, marketing, and many other areas.

The minor is administered by the [Institute for Intelligent Systems](#) and students in the minor are encouraged to attend the public weekly [Cognitive Science](#) Seminar and participate in [lab research](#).

Psychology majors are not eligible for the minor and should instead pursue the Cognitive Science Concentration within their major.

## Requirements

### The Minor

18 semester hours, 9 hours from the core, 3 hours in computer science, and 6 hours from the list of approved electives.

### Core (9 hours)

- PSYC 1030 - General Psychology
- PSYC 3303 - Thinking/Cognitive Processes
- PSYC 3530 - Psychology of Language

### Computer Science Requirement

Select one course from the following:

- COMP 1800 - Problem Solving/Computers
- COMP 4001 - Computer Programming
- COMP 1900 - CS1: Intro Comp Science (4)

### Electives (6 hours-cannot be from Major)

Select two courses from the following:

- PHIL 3460 - Nature/Mind/Knowledge
- PHIL 4421 - Philosophy of Mind
- PHIL 4661 - Philosophy of Science
- ECON 4512 - Behavioral Economics
- COMP 2700 - Discrete Structures
- COMP 4720 - Intro Artificial Intelligence
- MATH 2120 - Differential Equations
- MATH 4083 - Dynamical Systems/Chaos
- ENGL 3511 - Intro to Linguistics



## Communication Minor

### Requirements

Any student wishing to minor in any area in the Department of Communication should see the department chair who will assign an appropriate advisor. The minor must consist of at least 18 hours of approved coursework, 9 of which must be upper division. Coursework for all minors will be determined by the student in conference with the advisor with the approval of the department chair.

## Computer Science Minor

### Requirements

#### Completion of

Completion of 21 semester hours in computer science courses, including

- COMP 1900 - CS1: Intro Comp Science
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures
- COMP 3115 - Database Process and Design

#### 6 Additional Upper Division Semester Hours

- COMP 4001 - Computer Programming
- COMP 4005 - Web Design/Development
- COMP 4014 - Intro Java Programming may **not** be used to fulfill the minor requirement.

## Criminology and Criminal Justice Minor

### Requirements

Completion of 18 hours in criminal justice courses including

- CJUS 1100 - Intro/Criminal Justice

either

- CJUS 2226 - Introduction to Police

or

- CJUS 2326 - Introduction to Courts

or

- CJUS 2426 - Intro/Corrections in America

and

- CJUS 3130 - Research Methods CJUS

and

- CJUS 3540 - Criminology

- and 6 additional upper-division hours in Criminology and Criminal Justice courses

## Dance Minor

Any student wishing to minor in Dance should see the administrative secretary who will assign an advisor. The minor must consist of a minimum of 18 hours of approved coursework, 9 of which must be upper division. Coursework for all minors will be determined by the student in conference with the advisor.

## Earth Sciences Minor

### Requirements

Completion of 20 semester hours in earth sciences courses, at least 9 of which must be upper division hours.

## Economics Minor

### Requirements

To receive a minor in Economics, a student is required to take 18 credit hours, (six courses) in economics. Six of those hours (two courses) must be ECON 2010 and ECON 2020. Of the remaining 12 hours (four courses), all of them must be upper-division courses in economics, i.e., 3000-level or 4000-level courses. One of those courses must be either Microeconomic Theory (ECON 3310) or Macroeconomic Theory (ECON 3320). The other three courses (nine hours) are upper-division elective courses.

## Emergency Management Minor

The interdisciplinary Emergency Management Minor is designed for students with a diversity of backgrounds and interest in applying that background to emergency management, community resilience to disaster, environmental hazards mitigation, emergency management response, and business continuity/disaster recovery, and will address the following critical knowledge:

- the physical and social dimensions of disasters through combining knowledge from various physical, social, and applied disciplines;

- the intersection of public policy to disaster risk, response, and mitigation;
- the intersection of the private, nonprofit, and governmental sectors and how this effects emergency preparedness, mitigation, and recovery;
- sustainable development, planning for and response to extreme events and change in our physical and human landscapes; and
- communication dynamics and persuasive communication.

## Requirements

### The Minor

18 semester hours, 9 hours from the core and 9 hours from the list of approved electives.

### Core (9 hours)

- EMGT 3100 - Seminar in Emergency Management (ESCI 3100/PADM 3100)

### Select One from:

- ESCI 4251 - Environmental Hazards
- ESCI 3131 - Severe Weather
- CJUS 4190 - Terrorism Soc/Legl Prsp

### Capstone Experience:

pre-approved internship experience related specifically to emergency management policy, procedures, planning, etc. Alternatively, the student could complete a research seminar/project on a relevant and pre-approved emergency management topic. Select one from:

- EMGT 4000 - Internship
- ESCI 4621 - Investigations In GEOG
- CJUS 4100 - Ind Dir Studies

### Electives (9 hours)

Three courses (9 hours), none of which have been used to fulfill the core requirements, from among the following groups with no more than two courses (6 hours) from the same group:

### Physical Management:

- ESCI 4251 - Environmental Hazards

- ESCI 3131 - Severe Weather
- ESCI 4551 - Urban Planning Studio
  - ARCH 4551 - Site and Environmental Planning

### Human (Social/Cultural/Legal/Political):

- CJUS 4190 - Terrorism Soc/Legl Prsp
- ANTH 4510 - Health/Culture/Environ Justice
- PADM 3601 - Public Admin
- PADM 4221 - Issues/Urban Admin
- SOCI 3701 - Individual and Society
- SOCI 3401 - Social Inequality
- ANTH 4220 - Cultural Perspec/Environment
- COMM 3322 - Theories of Persuasion

### Note

With approval from the Emergency Management advisor, special topics courses related to emergency management topics may be substituted to fulfill requirements for the minor.

## Engineering Technology Minor

### Requirements

A student must complete 18 hours of Engineering Technology coursework (observing prerequisites), 12 of which must be upper-division, selected in consultation with a departmental advisor. It is understood that some prerequisites may be satisfied by coursework from other departments and programs.

## English Minor

### Requirements

Completion of 12 upper division hours in English (excluding ENGL 3500 and ENGL 3603).

## Entrepreneurship Minor

### Requirements

For All Majors (18 hours):

- UNIV 2555 - Intro Creativity/Innov/Design
- MGMT 2820 - Intro to Entrepreneurship
  - elective
- MGMT 4920 - Independent Study in Entrepreneurship
- MGMT 4921 - Internship in Entrepreneurship
- or
- UNIV 4110 - Internship
- MGMT 4820 - Entrepreneurship

## Environmental Studies Minor

The Interdisciplinary Environmental Studies Minor Program (18 hours) is intended to provide all students with the opportunity to obtain a broad-based knowledge of the environmental issues facing our planet; knowledge that spans the biological-physical threats and solutions, as well as behavioral, social, economic, and design implications. The Environmental Studies Program fosters interdisciplinary study among diverse course offerings in Anthropology, Architecture, Biology, Business, Chemistry, Earth Sciences, Economics, Philosophy, Physics, and Political Science.

### Requirements

#### Students Pursuing Behavioral-Humanistic-Design Emphasis

Students pursuing behavioral-humanistic-design emphasis must select two courses (6 hours) from the following offerings:

- BIOL 1020 - Biology of Organisms
- and
- BIOL 1021 - Biology of Organisms Lab
- CHEM 1010 - Chemistry of Materials
- and
- CHEM 1011 - Chemistry of Materials Lab
- ESCI 1020 - Landforms
- ESCI 1103 - The Human Planet

- ESCI 1010 - Weather and Climate
- or
- ARCH 3421 - Environmental Systems with ARCH 3713 - Design Studio 3

## Students Pursuing an Environmental Science Emphasis

Students pursuing an environmental science emphasis must select two courses (6 hours) in different disciplines from the following offerings:

- BIOL 3050 - General Ecology
- BIOL 4055 - Ecology/Environment Iss
- CHEM 4001 - Environmental Chemistry
- ESCI 4251 - Environmental Hazards
- ESCI 4252 - Global Environmental Change
- PHYS 4222 - Environmental Physics

## All Environmental Studies Students

All Environmental Studies students also select three elective courses (9 hours) from the following offerings:

- ANTH 4220 - Cultural Perspec/Environment
- ANTH 4510 - Health/Culture/Environ Justice
- ECON 4230 - Ecological Economics
- ESCI 4201 - Urbanization/Environment
- PHIL 3515 - Environmental Ethics
- POLS 4512 - Global Environmental Politics
- ARCH 4421 - Sustainable Design

## Additional Requirements

In addition to these elective courses, all Environmental Studies students are required to take one core course:

- ENVR 4000 - Environ Studies Directed Rsrch

## Healthcare and Society Minor

This minor provides students with the opportunity to develop the additional skills that professional schools in health and medical fields are seeking outside of the required science coursework. The course options are designed to enhance the student's understanding of personal wellness, social inequalities in healthcare, provider-patient dynamics and communication, biomedical ethics, and cultural influences on health behavior.

## Requirements

## The Minor:

18 semester hours of required courses and electives:

### Required Core Courses:

One of

- PSYC 1030 - General Psychology
- or
- SOCI 1010 - Introduction to Sociology
- COMM 3012 - Health Communication
- PHIL 3514 - Biomedical Ethics \*

### Note

\* Students planning to take the MCAT should take both PSYC 1030 and SOCI 1010 but only one course will count toward the minor requirements.

### One Course from Each of the Three Following Categories:

#### Health and Wellness:

- EDPR 2111 - Development Across Lifespan
- HLSC 2100 - Wellness Concepts Practice
- NUTR 2202 - Nutrition
- HLSC 2200 - Introduction to Public Health/Health Studies

#### Cultural Competency:

- ANTH 4510 - Health/Culture/Environ Justice
- ANTH 4521 - Culture, Soc & Mental Health
- ANTH 4571 - Race and Health Disparities
- ECON 4740 - Health Care Economics
- SOCI 3401 - Social Inequality
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 4420 - Racial Inequality
- SOCI 4442 - Sociology of Poverty

#### Social and Psychological Foundations:

- ANTH 4531 - Alcohol/Drugs/Culture
- ANTH 4541 - Nutritional Anth
- PSYC 3102 - Abnormal Psychology
- PSYC 3306 - Physiological Psyc
- PSYC 3506 - Human Sexuality
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 3512 - Health Psychology
- SOCI 4541 - Sociology of Aging
- SOCI 4851 - Medical Sociology
- SOCI 4852 - Sociology of Mental Illness

## History Minor

### Requirements

Minors must complete 21 semester hours in history courses. Of the 21 hours, at least 9 hours must be from

- HIST 1110 - World Civilization I
- HIST 1120 - World Civilization II
- HIST 2010 - U S to 1877
- HIST 2020 - The U S Since 1877
  - at least 9 hours must be in upper- division courses.

## Hospitality and Resort Management Minor (19 hrs)

### Requirements

To receive a minor in Hospitality and Resort Management, the student is required to take 19 credit hours as follows:

- HPRM 1050
- HPRM 2050 (4)
- HPRM 2330
- HPRM 4320
- HPRM 4620
- HPRM 4700
  
- HPRM 1050 - Business of Hospitality
- HPRM 3060 - Food & Bev. Production Theory
- HPRM 3061 - Basic Food & Bev Prod Lab
- HPRM 3330 - Managing Hotel/Resort Ops
- HPRM 4320 - Hospitality Services Mktg
- HPRM 4620 - Hospitality Operational Anlys
- HPRM 4700 - Integrative Challenge



## International Business Minor

### Requirements

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics:

12 hours from the following courses with the approval of the International Business advisor:

- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 3720 - Financial Markets
- FIR 4440 - Intermediate Managerial Finance
- FIR 4550 - International Finance
- FIR 4720 - Management of Financial Institutions
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4080 - Marketing Research
- MKTG 4470 - Essentials of Negotiation
- MKTG 4530 - International Marketing
- SCMS 2610 - Introduction to Supply Chain Management
- SCMS 4510 - Operations Planning and Resources Management
- SCMS 4511 - Supply Chain Strategy

For Students Whose Major Is in Another College of the University:

The student will take a minimum of 18 hours in The Fogelman College of Business and Economics, at least 9 hours of which must be chosen from the following:

- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 3720 - Financial Markets
- FIR 4440 - Intermediate Managerial Finance
- FIR 4550 - International Finance
- FIR 4720 - Management of Financial Institutions
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4080 - Marketing Research
- MKTG 4470 - Essentials of Negotiation
- MKTG 4530 - International Marketing
- SCMS 2610 - Introduction to Supply Chain Management
- SCMS 4510 - Operations Planning and Resources Management
- SCMS 4511 - Supply Chain Strategy

## International Studies Minor

### Requirements

Completion of 18 semester hours, consisting of

- ANTH 1200 - Cultural Anthropology
- ESCI 1301 - Survey of World Regions
- INTL 1101 - Introduction to International Studies
- UNHP 1101 - Humanities/Global Challenge
- UNHP 1102 - Social Scien/Global Challenge
- POLS 1501 - International Relations

or

- POLS 1301 - Intro to Comparative Politics
- INTL 4601 - Seminar International Studies
  - one upper division course in a modern foreign language
  - three upper division courses that count towards the IS major.

A maximum of six hours from either study abroad or internship credits may be used towards fulfilling the requirements of the IS minor (subject to approval by the IS Director or Associate Director).

### Note

A maximum of six hours from either study abroad or internship credits may be used towards fulfilling the requirements of the IS minor (subject to approval by the IS director).

## Journalism Minor

To complete the minor in Journalism, a student must earn 18 hours of credit in the Department of Journalism and Strategic Media meeting the following conditions:

(NOTE: Coursework for the minor will be determined by the student in conference with the advisor with the approval of the department chair.)

### Journalism Minor Core

- JRSM 1750 - Precision Language
- JRSM 2121 - Media Writing
- JOUR 3120 - Reporting
- JOUR 3526 - Multimedia Storytelling

Select two of the Following:

- JOUR 3130 - Feature Writing/Reporting
- JOUR 4124 - Data Writing/Reporting

- JOUR 4150 - Sports Writing/Reporting
- JOUR 4155 - Multimedia Sports Reporting
- JOUR 4160 - Food Writing/Reporting
- JOUR 4170 - Business Writing/Reporting
- JOUR 4180 - Public Issues Writing/Reporting
- JOUR 4190 - Opinion Writing/Reporting

## Judaic Studies Minor

The minor in Judaic Studies is designed to provide students in any department in the University with a sense of the origins and foundations of Western values and traditions. There is no Hebrew language requirement for the minor.

### Requirements

#### Lower Division Core (3 hours):

- JDST 2850 - Religions of Abraham

#### Upper Division Core (3 hours):

- JDST 3801 - Jewish Thought I
- JDST 3802 - Jewish Thought II

#### Upper Division Electives (6 hours):

#### Jewish Heritage (3 hours):

- UNIV 3580 - Hebrew and Greek Legacy
- JDST 4671 - Jewish Literary Texts
- JDST 4511 - Holocaust Studies

#### Israel (3 hours):

- JDST 4820 - Political History of Israel
- JDST 4830 - Israeli/Arab Conflict
- JDST 4840 - Israel/Antiquity in Modernity

## General Electives (6 hours)

- ARTH 4121 - Ancient Art Near East
- POLS 3102 - Religion and Politics
- UNIV 3580 - Hebrew and Greek Legacy
- SOCI 3860 - Sociology of Religion
- ENGL 4461 - Bible as Literature

## Note

With the permission of the Director of Bornblum Judaic Studies, students may substitute up to two courses in any category listed above. Such courses will have substantial Judaic Studies content.

## Legal Thought and Liberal Arts Minor

The minor in Legal Thought and Liberal Arts is designed to provide an interdisciplinary liberal arts program for students in any major who intend to enter the legal profession. The minor will be of particular benefit to pre-law students whose majors are more professional in nature and who are not exposed to the broader liberal arts curriculum. Students will be introduced to major intellectual traditions of the West and to ethical, social, and economic issues of significance to our time. The courses in the minor require that students read critically, think logically, and write clearly - attributes required of persons in the legal profession. Students wishing to minor in Legal Thought and Liberal Arts should contact the pre-professional advisor in room 107 Scates Hall.

## Requirements

### The Minor:

18 semester hours of required courses and electives:

### Required Core Course:

- PHIL 1611 - Elementary Logic
- ENGL 3604 - Persuasive Writing
- or
- ENGL 4602 - Adv Composition

### Electives:

Select one course from four of the following five groups (each course chosen must be from a different group):

### Economic Context of the Law:

- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- ECON 4210 - Public Economics
- ECON 4220 - Urban Economics
- ECON 4250 - Econ Poverty/Discrimination
- ECON 4340 - Comparative Economic Systems

### Historical Context of the Law:

- HIST 3121 - England Before 1714
- HIST 4506 - Cultural Intctcl Hist Europe
- HIST 3840 - U S Constitutional History

### Practical Foundations of Jurisprudence:

- CJUS 3510 - Law and Society
- CJUS 4521 - Foundation/Criminal Process
- POLS 3219 - Judicial Process
- POLS 4212 - Const Law Civil Liberty
- POLS 4405 - Origin/Dev Amer Pol Thought
- POLS 4504 - International Law

### Theoretical Foundations of Jurisprudence:

- PHIL 3411 - Contemporary Moral Problems
- PHIL 3511 - Ethical Theory
- PHIL 3514 - Biomedical Ethics
- PHIL 3516 - Philosophy of Law
- PHIL 4551 - Social and Political Philosophy
- POLS 3401 - Legal/Pol Thght Classical
- POLS 3402 - Legal/Political Thght Modern
- POLS 3405 - Intro Law/Jurisprudence
- UNIV 3580 - Hebrew and Greek Legacy

### Critical Reading and Thinking:

- any 4000-level English literature ENGL 4230-ENGL 4461 course

or

- ENGL 4602 - Adv Composition (if not taken as the core)
- or
- any upper-division philosophy course not listed above.

## Note

Some of these courses may have prerequisites. Students are responsible for obtaining permission from the instructor to enroll in the course if they have not fulfilled those prerequisites.

## Management Minor

### Requirements

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (12 hours):

- MGMT 3215 - Management of Human Resources
- MGMT 4420 - Organizational Behavior in Business
  - and 6 upper division semester hours in management

For Students Whose Major Is Within Another College of the University (18 hours):

- MGMT 3110 - Organization and Mgmt
- MGMT 3215 - Management of Human Resources
- MGMT 3510 - Business Communications
- MGMT 4420 - Organizational Behavior in Business
  - and 6 upper division semester hours in management

## Marketing Management Minor

### Requirements

For Students Whose Major Is in Another College of the University (18 hours):

- MKTG 3010 - Principles of Marketing
- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion

- SCMS 2610 - Introduction to Supply Chain Management

### Six Semester Hours Chosen by the Student From the Following:

- MKTG 3320 - Retailing Management
- MKTG 3340 - Principles of Social Media Marketing
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4230 - Services Marketing
- MKTG 4470 - Essentials of Negotiation
- MKTG 4530 - International Marketing
- MKTG 4630 - Social Commerce Strategies and Analytics

MKTG 4920-MKTG 4929

- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management

### For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (9 hours):

- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion

### Three Semester Hours Chosen by the Student From the Following:

- MKTG 3320 - Retailing Management
- MKTG 3340 - Principles of Social Media Marketing
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4230 - Services Marketing
- MKTG 4470 - Essentials of Negotiation
- MKTG 4530 - International Marketing
- MKTG 4630 - Social Commerce Strategies and Analytics
  - MKTG 4920-MKTG 4929
- SCMS 2610 - Introduction to Supply Chain Management
- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management

## Mathematical Sciences Minor

### Requirements

A minimum of 20 semester hours, including

- MATH 1910 - Calculus I
- MATH 1920 - Calculus II

## 9 Additional Upper Division Semester Hours

9 additional upper division semester hours in MATH courses approved by the Chair or Chair's designee of the Department of Mathematical Sciences

### Plus One of

- COMP 2700 - Discrete Structures
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 2110 - Calculus III
  - or an additional upper division MATH course approved by the Chair or Chair's designee of the Department of Mathematics.

## Military Science Minor

### Requirements

A minor in Military Science can be obtained through meeting the following requirements: 19 semester hours consisting of

- ARMY 3100 - Leadership Laboratory
- ARMY 3105 - American Military History
- ARMY 3111 - Adaptive Tactical Lead I
- ARMY 3115 - Advanced Leadership Laboratory
- ARMY 3121 - Leadership in Changing Environ
- ARMY 4100 - Advanced Leadership Laboratory
- ARMY 4111 - Developing Adaptive Leaders
- ARMY 4115 - Advanced Leadership Laboratory
- ARMY 4121 - Leadership in Complex World

## Music Minor

### Requirements

Students wishing to minor in music should contact the School of Music Audition Coordinator to declare Music as their minor and schedule appropriate placement test. The minor in Music consists of 21 credit hours and is available to any student who completes the following requirements:



Applied Music Individual Instruction (4 hours)

2 Semesters Appropriate Ensembles (2 hours)

Music Theory (6 hours)

- MUTC 1008 - Music Theory I
- MUTC 1009 - Music Theory II

Choose One From (3 hours)

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750
- MUHL 3303 - Western Music History

Upper Division Electives (6 hours)

In Addition

All music minors are required to attend a minimum of 25 concerts or recitals.

## **Naval Sciences Minor**

### **Requirements**

Completion of 18 semester hours in the following:

- NAVY 1500 - Introduction to Naval Science
- NAVY 1600 - Sea Power/Maritime Affairs
- NAVY 2500 - Naval Leadership & Management
- NAVY 4600 - Naval Leadership and Ethics (9 hours total)

Select Three Courses From the Following Electives:

- NAVY 2600 - Naval Ship Systems I/Engr
- NAVY 3500 - Navigation
- NAVY 3520 - Evolution of Warfare

- NAVY 3600 - Naval Operations & Seamanship
- NAVY 3620 - Officer Candidate School Prep
- NAVY 4500 - Naval Ship Systems II/Weapons
- NAVY 4520 - Fundamentals of Maneuver Warfare

## Note

The Naval Science Minor and all Naval Science courses do not require enrollment in the Naval ROTC program and are open to all University of Memphis students.

## Nonprofit Management Minor

The Division of Public and Nonprofit Administration offers an interdisciplinary minor in Nonprofit Management which includes courses that address competencies necessary for work in nonprofit organizations. The minor is open to students majoring in any department in the University or to special students who wish to enroll in order to take such a program.

Students who complete this minor and specified co-curricular activities will be eligible for certification in Nonprofit Professional (CNP) credential by the Nonprofit Leadership Alliance. The certification program is designed to build competencies in nonprofit administration through coursework, internships, volunteer opportunities, student association leadership activities and professional development workshops.

## Requirements

### The Minor:

18 semester hours, three hours of a required course, and 15 hours from the guided electives.

### Required course (3 hours):

- PADM 4226 - Intro Nonprofit Organizations

### Guided electives (15 hours):

Choose one from each category: (3 hours):

### Accounting and Financial Management:

- ACCT 2010 - Fundamentals of Acct I
- PADM 4227 - Issues/Nonprofit Admin
- PADM 4228 - Grant Development/Management

### Organization and Administration:

- PADM 3601 - Public Admin
- MGMT 3110 - Organization and Mgmt

### Communication Skills:

- COMM 4342 - Small Group Communication
- COMM 4375 - Intercultural Communication
- COMM 4380 - Communication and Conflict
- COUN 4621 - Human Interactions
- MGMT 4420 - Organizational Behavior in Business
- SWRK 3902 - Human Behavior/Soc Envrnmnt

### Nonprofit Context:

- ANTH 4412 - Neighborhood Development
- PADM 4412 - Neighborhood Dev/Social Entrep
- ART 3411 - Art for Children
  - CSED 3302
- PADM 3501 - Civic Engagement, Voluntarism
- PADM 4221 - Issues/Urban Admin
- POLS 3505 - International Organizations
- PSYC 3103 - Child Psychology
  - SOCI 4923
- SWRK 2911 - Soc Response to Human Need

### Nonprofit Organizations:

- PADM 4231 - Admin Internship
  - INTL 4911 - Internship Internatl Studies
- or
- SWRK 4830 - Field Instruction Soc Work I
- and
- SWRK 4831 - Field Instruction Soc Work II
    - or another approved internship course.

## Philosophy Minor

### Requirements

Completion of 18 semester hours in philosophy courses, including

- PHIL 1101 - Fundamental Issues/Philosophy

or

- PHIL 1102 - Values and Modern World
- PHIL 1311 - Critical Thinking

or

- PHIL 1611 - Elementary Logic
  - 12 upper division semester hours

## Note

In consultation with the coordinator of undergraduate studies in philosophy, a student may design a minor (18 hours) that applies to the student's major area of study.

## Photography Minor

### Requirements

Completion of 18 semester hours as follows:

- ART 2700

or

- ART 2701 - Photography I
- ART 2702 - Photography II
- ART 3701 - Photography III
  - two 4000-level photography courses

and

- ARTH 4721 - History Photography I

or

- ARTH 4722 - History Photography II

## Physics Minor

### Requirements

Completion of 20 semester hours in physics courses, including

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I

- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable but not recommended)
  - 12 additional upper division hours.

## Political Science Minor

### Requirements

To complete the minor in Political Science, a student must earn 18 hours in political science discipline to the following conditions: a) students must complete at least 3 hours each in three of the four areas listed in the Political Science, (B.A.) ; b) students must complete at least 9 hours in courses at the 3000-level or higher; c) no more than 6 hours of internship (POLS 4230, POLS 4231), mock trial (POLS 4709), research and studies abroad (POLS 4399), and independent study (POLS 4702) combined may be counted toward the 18 hours required for a minor in Political Science.

## Pre-Professional Business Administration Minor

### Requirements

The Fogelman College of Business and Economics offers a pre-professional minor (30 hours) for students whose major is in another college of the University. Requirements are as follows:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ACCT 3130 - Legal/Social/Political Environ
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
  
- SCMS 2710 - Business Analytics -Statistics
  
- or
  
- MATH 1530 - Prob/Statistics/Non Calculus
  
- MIS 2749 - Foundation/Information Systems
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MKTG 3010 - Principles of Marketing

### Note

Accounting, economics, and a minimum of 45 credit hours are prerequisites for 3000 level courses.

## Professional Selling Minor

## Requirements

For Students Whose Major Is in Another College of the University (18 hours):

- MIS 2749 - Foundation/Information Systems
- MKTG 3010 - Principles of Marketing
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4470 - Essentials of Negotiation

6 Semester Hours Chosen by the Student From the Following Courses:

- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion
- MKTG 3320 - Retailing Management
- SCMS 2610 - Introduction to Supply Chain Management

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (9 hours):

- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4470 - Essentials of Negotiation

3 Semester Hours Chosen by the Student From the Following Courses:

- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion
- MKTG 3320 - Retailing Management
- SCMS 2610 - Introduction to Supply Chain Management

## **Project Management Minor**

### Requirements

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (12 hours):

- MIS 3885 - Strategic IT Project Management
- MIS 4672 - Project Management Tools and Leadership

## 2 Courses Chosen by the Student From

- MIS 3770 - System Analysis Methods
- MIS 3775 - Database/Information Management
- MIS 4160 - Mobile Application Development
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MIS 4760 - Web Site Development
- MIS 4845 - Application Program Development III
- MGMT 4420 - Organizational Behavior in Business
- MGMT 4481 - Teamwork/Group Dynamics in Organizations
- MKTG 4080 - Marketing Research
- SCMS 3650 - Supply Management
- SCMS 4511 - Supply Chain Strategy

## For Students Whose Major Is Business Information and Technology (12 hours):

- MIS 4672 - Project Management Tools and Leadership

## 3 Courses Chosen by the Student From

- MIS 4160 - Mobile Application Development
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MIS 4760 - Web Site Development
- MIS 4845 - Application Program Development III
- MGMT 4420 - Organizational Behavior in Business
- MGMT 4481 - Teamwork/Group Dynamics in Organizations
- MKTG 4080 - Marketing Research
- SCMS 3650 - Supply Management
- SCMS 4511 - Supply Chain Strategy

## For Students Whose Major Is Within Another College of the University (18 hours):

- MIS 2749 - Foundation/Information Systems
- MIS 3210 - Critical Thinking Using Analytics
- MIS 3770 - System Analysis Methods
- MIS 3775 - Database/Information Management
- MIS 3885 - Strategic IT Project Management
- MIS 4672 - Project Management Tools and Leadership

## Psychology Minor

### Requirements

Completion of 20 semester hours in psychology, including

- PSYC 1030 - General Psychology
- PSYC 3010 - Research and Statistics I
- PSYC 3020 - Research and Statistics II (or equivalent)
  - 9 additional upper-division hours.

## Public Administration Minor

The Division of Public and Nonprofit Administration offers a minor in Public Administration with courses that address competencies necessary for work in local government and public agencies. The minor is open to students majoring in any department in the University.

### Requirements

Students must complete 18 hours in Political Science and Public Administration, including 9 hours of required core course and 9 hours from a set of guided electives.

### Required Courses:

- POLS 1030 - American Government
- PADM 3501 - Civic Engagement, Voluntarism
- PADM 3601 - Public Admin
- PADM 4221 - Issues/Urban Admin

### Guided Electives:

Choose 6 hours from among the following:

- CJUS 4126 - CJUS Admin and Mgmt
- POLS 3211 - State/Local Government
- POLS 3213 - Intro to Public Policy
- PADM 4101 - Political Statistics
- POLS 4222 - Urban Politics
- PADM 4226 - Intro Nonprofit Organizations
- PADM 4231 - Admin Internship
- PADM 4401 - Comparative Public Adm
- PADM 4412 - Neighborhood Dev/Social Entrep
- ANTH 4412 - Neighborhood Development



- PADM 4228 - Grant Development/Management

or

- PADM 4710-19

## Public Relations Minor

To complete the minor in Public Relations, a student must earn 18 hours of credit in the Department of Journalism and Strategic Media meeting the following conditions:

(NOTE: Coursework for the minor will be determined by the student in conference with the advisor with the approval of the department chair.)

### Public Relations Minor Core

- JRSM 1750 - Precision Language
- JRSM 2121 - Media Writing
- PBRL 3400 - Survey of Public Relations
- PBRL 3421 - Public Relations Writing

Select two of the Following:

- JRSM 3900 - Visual Media
- PBRL 4301 - Event Management/HPRM& PR
- PBRL 4410 - Public Relations Research
- PBRL 4421 - Crisis Comm in Public Relation
- PBRL 4431 - Music Promo/Public Relations
- PBRL 4440 - Public Relations Campaigns

## Real Estate Minor

### Requirements

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (9 hours):

- FIR 3310 - Real Estate Principles

### Six Additional Hours Chosen From

- FIR 4310 - Real Estate Law
- FIR 4320 - Real Estate Finance
- FIR 4340 - Real Estate Appraisal
- FIR 4350 - Real Estate Investment

- FIR 4911 - Internship in Finance, Insurance, and Real Estate

### For Students Whose Major Is Within Another College at the University (21 Hours):

- ACCT 2010 - Fundamentals of Acct I
- ECON 2020 - Intro to Microeconomics
- FIR 3310 - Real Estate Principles
- FIR 3410 - Financial Management

### Nine Hours Chosen From

- FIR 4310 - Real Estate Law
- FIR 4320 - Real Estate Finance
- FIR 4340 - Real Estate Appraisal
- FIR 4350 - Real Estate Investment
- FIR 4911 - Internship in Finance, Insurance, and Real Estate

## Religion in Society Minor

The University College offers an interdisciplinary minor in Religion in Society. This minor examines the role of religion in society throughout history. The minor is open to students majoring in any area within any undergraduate college at The University of Memphis or to special students who wish to enroll in order to take such a program.

### Requirements

#### Required Courses (6 Hours)

- RLGN 1100 - Introduction to Religion
- RLGN 3100 - Perspectives on Religion

#### Additional Courses (12 Hours)

- ANTH 4253 - Anthropology of Religion
- ENGL 4461 - Bible as Literature
- HIST 3275 - History of Jewish People
- JDST 2850 - Religions of Abraham
- JDST 3661 - Old Testament
- JDST 4511 - Holocaust Studies
- PHIL 3701 - Human and the Divine
- UNIV 3565 - Comparative Christianity
- UNIV 3711 - Special Topics
- UNIV 3712 - Special Topics

## Religious Studies Minor

The minor in Religious Studies is designed for students with a diversity of backgrounds and interests in religion. Just as religion is interrelated with many other aspects of society and culture, the minor in Religious Studies will complement coursework and research on religion undertaken in a broad range of disciplines and major departments. The required courses, Introduction to Religion, and Perspectives on Religion, provide students with an appreciation of the variety of phenomena that has characterized the religious experiences and actions of humanity, and with knowledge of the basic approaches that have been used to understand such experiences and actions. Elective courses offered in several departments permit the student to develop his or her interest further, by exploring particular religious traditions and ways of studying religion. The Senior Capstone Project integrates previous learning and can be coordinated with work done in the student's major, if desired, through arrangement of an appropriate faculty sponsor.

### Requirements

#### The Minor:

18 semester hours of required courses and electives:

#### Lower Division Core (3 hours)

- RLGN 1100 - Introduction to Religion

#### Upper Division Core (3 hours)

- RLGN 3100 - Perspectives on Religion

#### Senior Capstone Project (3 hours)

- RLGN 4990 - Capstone Project

#### Electives (9 hours)

All courses listed below are 3 hours unless otherwise noted. Other courses, including special topics, individual study, and directed readings courses, may be counted with prior permission of the Program Coordinator.

## Elective Course Listing:

- AAAS 4251 - African Religions/Diaspora
- ANTH 3253 - Magic & Religion
- ARTH 4031 - Special Topics in Art History
- CLAS 2481 - Mythology
- ENGL 4461 - Bible as Literature
- HIST 3273 - Islamic History to 1405
- HIST 3275 - History of Jewish People
- JDST 2850 - Religions of Abraham
- JDST 3601 - Judaism
- JDST 3661 - Old Testament
- JDST 3801 - Jewish Thought I
- JDST 3802 - Jewish Thought II
- JDST 4511 - Holocaust Studies
- JDST 4801 - Jewish Mysticism
- JDST 4841 - Biblical Archaeology
- PHIL 3701 - Human and the Divine
- PHIL 3702 - Philosophy of Religion
- PHIL 3721 - Chinese Philosophy
- POLS 3102 - Religion and Politics
- RLG 4010 - Directed Readings
  - RLG 4050-RLG 4075
- SOCI 3860 - Sociology of Religion
- UNIV 3581 - Faith/Reason/Imagination
- UNIV 3585 - Critical Themes Old Testament
- UNIV 3590 - New Testament
- UNIV 3565 - Comparative Christianity

## Risk Management, Financial Planning and Insurance Minor

### Requirements

For Students Whose Major Is in the Fogelman College of Business and Economics (9 hours):

- FIR 4870 - Risk Management

Choose two courses from the following:

- FIR 3710 - Investments
- FIR 3810 - Principles of Risk/Insurance
- FIR 4011 - Retirement and Estate Planning
- FIR 4620 - Cases in Financial Planning

For Students Whose Major Is Within Another College at the University (21 hours):

- ACCT 2010 - Fundamentals of Acct I

- ECON 2020 - Intro to Microeconomics
- SCMS 2710 - Business Analytics -Statistics
- FIR 4011 - Retirement and Estate Planning
- FIR 4870 - Risk Management
  - and six additional upper division hours in insurance or finance approved by the department chair

## **Social Media Marketing Minor**

### **Requirements**

For Students Whose Major Is in Another College of the University (18 hours):

- MKTG 3340 - Principles of Social Media Marketing
- MKTG 4630 - Social Commerce Strategies and Analytics
- MKTG 4611 - Social Commerce Internship/Practicum

Plus Any Three of the Following:

- COMM 4811 - Media 2.0
- MKTG 3010 - Principles of Marketing
- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion
- MIS 4160 - Mobile Application Development
- MIS 4760 - Web Site Development
- JRSM 4910 - Advanced Social Media

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (9 hours):

- MKTG 3340 - Principles of Social Media Marketing
- MKTG 4630 - Social Commerce Strategies and Analytics
- MKTG 4611 - Social Commerce Internship/Practicum

## **Social Work Minor**

### **Requirements**

Completion of 21 semester hours in sociology and social work courses including

- SOCI 1010 - Introduction to Sociology
- SWRK 2010 - Introduction to Social Work

- SWRK 2011 - Writing for Social Work
- SWRK 2911 - Soc Response to Human Need
  - 9 additional upper division hours in social work courses.

## **Sociology Minor**

### **Requirements**

- SOCI 1010 - Introduction to Sociology
  - and 15 upper-division hours in SOCI.

## **Studio Arts Minor**

### **Requirements**

Completion of 24 semester hours in art courses, 9 of which must be from the upper division. Courses selected for the minor are to be approved by the advisor who will be assigned by the department chair.

## **Supply Chain Management Minor**

### **Requirements**

For students whose major is in another college of the University (18 hours):

- SCMS 2610 - Introduction to Supply Chain Management
- SCMS 2710 - Business Analytics -Statistics or equivalent
- SCMS 3510 - Operations Management
- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management
- MGMT 3110 - Organization and Mgmt

For students whose major is Marketing Management (9 hours):

Choose any three of the following courses:

- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management
- SCMS 4510 - Operations Planning and Resources Management
- SCMS 4511 - Supply Chain Strategy

- SCMS 4512 - Current Topics in Supply Chain Management
- SCMS 4810 - Problems in Supply Chain Management

For students whose major is in another department in the Fogelman College of Business and Economics (9 hours):

- SCMS 2610 - Introduction to Supply Chain Management

Two of the Following Courses:

- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management
- SCMS 4510 - Operations Planning and Resources Management

## Systems Testing Minor

### Requirements

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (12 hours):

- MIS 2845 - Applied Program Development I
- MIS 3770 - System Analysis Methods
- MIS 4681 - Fundamental/Software Testing
- MIS 4682 - Advanced Software Testing

For Students Whose Major Is Within Another College of the University (18 Hours):

- MIS 2749 - Foundation/Information Systems
- MIS 2845 - Applied Program Development I
- MIS 3210 - Critical Thinking Using Analytics
- MIS 3770 - System Analysis Methods
- MIS 4681 - Fundamental/Software Testing
- MIS 4682 - Advanced Software Testing

## Theatre Minor

Any student wishing to minor in a theatre concentration - Performance, Musical Theatre, or Design/Technical - should see the administrative secretary who will assign an advisor. The minor must consist of a minimum of 18 hours of approved coursework, 9 of which must be upper division. Coursework for all minors will be determined by the student in conference with the advisor.

## Women's and Gender Studies Minor

This minor exposes students to multidisciplinary approaches to the study of the lives of women, with a special focus upon their racial diversity. Students therefore take courses from both the humanities and social sciences, and study issues of racial diversity as well as gender.

### Requirements

#### The Minor

18 semester hours, 9 hours from the core and 9 hours from the list of approved electives.

#### Core (9 hours)

- HIST 4853 - African American Women
- or
- SOCI 4460
- or
- PSYC 3236 - Psychology of Gender
- PHIL 3452 - Feminist Theory
- WMST 2100 - Intr/Women/Gender Study

#### Electives (9 hours)

Select one course from each of the following groups:

#### Women's Issues Across Time and Place:

- ANTH 3511 - Culture/Kin/Family
- ANTH 4551 - Culture/Sex/Childbirth
- CJUS 4460 - Race/Ethnicity/Gender/America
- HIST 4213 - Women/Gender/Latin America
- HIST 4289 - African Women's History
- HIST 4831 - History American Family
- HIST 4851 - History of Women in America
- SOCI 3432 - Sociology of Gender



## Cultural Studies:

- COMM 4364 - Voices/American Women
- COMM 4373 - Interracial Communication
- COMM 4856 - Gender and Film
- ENGL 3325 - Af/Am Lit thru Harlem Ren
- ENGL 3326 - Af/Am Lit since Harlem Ren
- ENGL 4372 - Af/Am Author/Harlem Ren
- ENGL 4373 - Af/Am Author since Harlem Ren
- ENGL 4451 - Studies/Women and Literature
- SLS 4125 - Gender/Race/Class Urb Sp/Lei

## Diversity Among Women:

- HIST 3881 - African American History
- HIST 4289 - African Women's History
- HIST 4853 - African American Women
- HIST 4882 - Civil Rights Movement
- PHIL 3741 - African American Philosophy
- POLS 3320 - Human Rights/World Politics
- POLS 3415 - Feminist Political Theory
- POLS 4415 - African-Am Pol Thgth to 1900
- POLS 4416 - African-Am Pol Tht from 1900
- SOCI 3401 - Social Inequality
- SOCI 3420 - Sociology of the South
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 4420 - Racial Inequality
- PSYC 3236 - Psychology of Gender

## Note

With approval from the Director of Women's and Gender Studies, a special topics course may be substituted for an elective in each group.

## World Languages and Literatures Minor

Completion of 18 semester hours consisting of (1) courses numbered 1020, 2010, and 2020 (or their equivalents) in the foreign language in which upper division hours are to be taken, and (2) 9 upper division semester hours in one of the following languages: Chinese, French, German, Italian, Japanese, Russian, or Spanish. Students placing directly into 2010 or higher on the Foreign Language placement exam may complete the requirements for the minor by either: (1) applying for retroactive credit for 1020 and any subsequent courses out of which they have placed; or (2) completing additional upper-division hours to bring the total number of hours for the minor to 18.

## Accelerated Bachelor/Masters

### Biology, (Accelerated B.S./M.S.)

Students who earn a B.S. in Biology should attain the following objectives: (a) demonstrate knowledge and comprehension of the principles, concepts, and theories pertinent at each level of biological organization; (b) apply principles of biological classification to the

diversity of life and recognize phylogenetic relationships among organisms; (c) demonstrate skills in analytical reasoning and problem solving; (e) function successfully in laboratory and field settings, including the use of basic equipment, techniques, and safety protocols; (f) access, evaluate, and utilize biological information in print and electronic formats; (g) effectively communicate scientific knowledge and experimental results in both oral and written formats; (h) compete successfully for admission to graduate and professional programs and for employment utilizing their academic training.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830 or MATH 1910 is required for the Biology major.

## The Major (64 hours in Addition to University General Education Program Requirements)

Students must earn a grade of at least "C-" in all BIOL courses applied toward the major, the minor, and in all required chemistry, physics, and mathematical courses. BIOL, CHEM, MATH, and PHYS courses applicable toward the major or minor may not be taken more than three times. Students must earn a grade of at least "C-" in BIOL 1110/BIOL 1111 and BIOL 1120/BIOL 1121, before enrolling in any upper division BIOL course.

Any BIOL course applicable toward the major or minor may be repeated once to earn a minimum grade of "C-." To repeat a course a second time, a student must apply for and receive special permission from the department Undergraduate Studies Committee. Application information is available in the Biology Advising and Resource Center. A student may not attempt the same BIOL course more than three times, regardless of where it is taken. Courses cross-listed with BIOL (e.g., CHEM 4511, CHEM 4512, and CHEM 4501) also are subject to this course repetition policy.

Completion of 36 hours in BIOL courses, 16 hours in CHEM courses, 3-4 hours in MATH courses, 8 hours in PHYS courses, and 12 hours in Required Support Courses as specified below:

### Biology Requirements:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab (these courses are included in the University General Education Program)
- BIOL 3072 - Genetics
- BIOL 3073 - Genetics Laboratory
- BIOL 3130 - Cell Biology
- BIOL 4100 - Evolution

### 18 Additional Upper Division Hours in BIOL Courses Approved by the Department

#### One Organismal Diversity Course From Among

- BIOL 3200 - General Botany
- BIOL 3620 - Comp Anatomy of Vertebrts
- BIOL 4245 - Plant Systematics/Evolution

- BIOL 4375 - Molec Biol/Parasite
- BIOL 4640 - Ornithology
- BIOL 4644 - Ichthyology
- BIOL 4740 - Mammalogy
- BIOL 4744 - Herpetology
- BIOL 4900 - Entomology

### One Additional Laboratory or Lecture/laboratory Course

#### Note:

No more than five total credit hours of research and practicum (BIOL 4000, BIOL 4001, BIOL 4570) can be applied toward major requirements.

### Additional Science and Math Requirements:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM

- MATH 1830 - Elementary Calculus

or

- MATH 1910 - Calculus I (these courses are included in the University General Education Program)

- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I

- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I

- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### Required Support Courses:

Select courses from each of the following three areas for a total of at least 12 hours:

### Science Ethics (one course):

- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics

### Upper Division Social Science (one course):

- ANTH 3111 - Human Paleontology
- ANTH 4111 - Evolution and Human Health
- ANTH 4220 - Cultural Perspec/Environment
- ANTH 4510 - Health/Culture/Environ Justice
- ANTH 4511 - Medical Anthropology
- ANTH 4521 - Culture, Soc & Mental Health
- ANTH 4531 - Alcohol/Drugs/Culture
- ANTH 4541 - Nutritional Anth
- ANTH 4551 - Culture/Sex/Childbirth
- ANTH 4571 - Race and Health Disparities
- ECON 4230 - Ecological Economics
- ECON 4740 - Health Care Economics
- ESCI 4201 - Urbanization/Environment
- ESCI 4251 - Environmental Hazards
- ESCI 4252 - Global Environmental Change
- POLS 4512 - Global Environmental Politics
- PSYC 3306 - Physiological Psyc
- PSYC 3307 - Animal Behavior
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 3512 - Health Psychology
- PSYC 4305 - Mind/Brain/Intelligence
- SOCI 3401 - Social Inequality
- SOCI 3432 - Sociology of Gender
- SOCI 4420 - Racial Inequality
- SOCI 4541 - Sociology of Aging
- SOCI 4851 - Medical Sociology

### Skills Courses (two courses):

- CLAS 3021 - Medical Terminology
  - COMP 1900 - CS1:Intro Comp Science
- or
- COMP 4001 - Computer Programming
  - ENGL 3601 - Technical and Profess Writing
  - ESCI 4511 - Remote Sensing/Environ
  - ESCI 4515 - Geographic Info Science
  - HLSC 4530 - Epidemiology
  - MATH 4611 - Intro Applied Statistics
- or
- PSYC 3010 - Research and Statistics I
  - PSYC 3020 - Research and Statistics II

## Foreign Language:

6 hours in a single foreign language, or equivalent. If the language chosen was used to meet University admissions requirements, students must take the foreign language placement exam and complete two sequential courses beginning with the course into which placed by the exam. If a different language is chosen, any six hours will fulfill the requirement.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Accelerated B.S./M.S. Program in Biology

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Biology during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Biological Sciences.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.S. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Biology department. Each applicant will complete an interview with the graduate academic coordinator in biology.

Students must also apply to the Graduate School for the accelerated B.S./M.S. program, which allows them to take graduate courses in biology. To continue in the program past the B.S., students must apply for full admission into the Graduate School and into the Biological Sciences department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 4-Year Biology Sequence

### Freshman Year

#### First Semester

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 1010 - English Composition
- MATH 1830 - Elementary Calculus

or

- MATH 1910 - Calculus I
  - Social Sciences (3) \*

#### Second Semester

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ENGL 1020 - English Comp/Analysis
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
  - Humanities (3) \*

Semester Totals 27-28 hrs

## Sophomore Year

### First Semester

- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- COMM 2381 - Oral Communication
  - Social Sciences (3) \*
  - History (3) \*

### Second Semester

- BIOL 3130 - Cell Biology
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
  - Elective (3) \*\*
  - Skills Course (3-4)

Semester Totals 33-34 hrs

## Junior Year

- BIOL 3072 - Genetics
- BIOL 3073 - Genetics Laboratory
  - PHYS (4) \*\*\*
  - UD BIOL (3)
  - Skills Course (3-4)
- BIOL 4100 - Evolution
  - PHYS (4) \*\*\*
  - UD BIOL (4)
  - Humanities (3) \*

## Semester Totals 28-29 hrs

### Senior Year

#### First Semester

- Science Ethics (3)
- UD BIOL (4)
- UD BIOL (3)
- Elective (3)
- Elective (3)

#### Second Semester

- History (3) \*
- UD BIOL (4)
- UD Social Science (3)
- Elective (3)
- Elective (1-3)

## Semester Totals 32 hrs

## Total Hours: 120-121

## Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement.

\*\*Undergraduate research is strongly encouraged as part of the elective hours.

\*\*\*Choose: PHYS 2010/PHYS 2011 and PHYS 2020/PHYS 2021 or PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.

†Students continuing their high school foreign language, e.g. for a foreign language major/minor and/or to meet the BIOL skills course requirement, are encouraged to take foreign language in the freshman year.

## Biomedical Engineering, (Accelerated B.S.B.E./M.S.)

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Biomedical Engineering during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S.B.E./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Biomedical Engineering.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.S.B.E. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Biomedical Engineering department. Each applicant will complete an interview with the graduate academic coordinator in biomedical engineering.

Students must also apply to the Graduate School for the accelerated B.S.B.E./M.S. program, which allows them to take graduate courses in biomedical engineering. To continue in the program past the B.S.B.E., students must apply for full admission into the Graduate School and into the Biomedical Engineering department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### Communication:

- ENGL 3603 - Engineering Communications instead of COMM 2381

### Mathematics:

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

### Social/Behavioral Sciences:

Must be taken in addition to 3 hours from the other specified choices

- ECON 2010 - Intro to Macroeconomics

### Natural Science:

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### History:

American history waived for B.S.B.E. students who have completed one unit of American history in high school.



## College and Degree Requirements (26 hours)

### Mathematics (11 hours):

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Sciences (8 Credits):

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab

### Collateral Courses (7 hours):

- ENGR 1010 - Engineering Problem Solving
- EECE 2201 - Circuit Analysis I
- EECE 2203 - Circuit Analysis Lab

or

- EECE 2283 - Electrical Engr/Instrumentation
- EECE 2281 - Instrumentation Lab

## The Major (64 hours)

### Completion of 40 hours from

- BIOM 1701 - Introduction to Biomedical Engineering Design
  - BIOM 1702 - Biomedication Engineering Visualization
  - BIOM 1720 - Intro Biomed Engr Tools
  - CHEM 1120 - General Chemistry II
  - CHEM 1121 - General Chemistry II Lab
  - BIOL 1120 - General Biology II
  - BIOL 2011 - Anat/Physiology I Lab
- or
- BIOL 2021 - Anat/Physiology II Lab
  - BIOM 2720 - Experimental Design Analysis
  - BIOM 2810 - Intro Biomechanics/Mechanics of Materials

- BIOM 3010 - Medical Measurements
- BIOM 3110 - Med Physiology/BIOM

Or

- BIOL 3730 - Vertebrate Physiology
- BIOM 3710 - Physiological System/Modeling
- BIOM 4730 - Biomaterials
- BIOM 4760 - Biomed Engr Design Principles
- BIOM 4780 - Senior Project

## Completion of 24 hours of

Completion of 24 hours of BIOM, Engineering and Technical electives approved by the advisor. At least 6 hours must be satisfied with BIOM electives. Nine hours of electives must be chosen from upper division engineering courses. Six hours of technical electives may be chosen from upper division courses in BIOL, BIOM, CHEM, EECE, MATH, MECH and PHYS. The remaining 3 hours must be chosen from engineering or upper-division courses in BIOL. Courses at this level in other departments can be chosen with permission of the chair or the chair's designee. Some courses to meet these requirements are:

- BIOM 4720 - Bioelectricity
- BIOM 4750 - Biomechanics
- BIOM 4702 - Biotechn Tools for BME Res
- BIOM 4205 - Intro Biomed and Chem Sensors
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- EECE 3211 - Electronics I
- EECE 3221 - Matrix Computer Methods
- EECE 3240 - Electromagnetic Field Theory
- MATH 3242 - Intro Linear Algebra
- MATH 4391 - Partial Differential Eqns I
- MATH 4721 - Numerical Analysis
- BIOL 3130 - Cell Biology
- BIOL 4511 - Biochemistry I
- MECH 3311 - Engineering Thermodynamics I
- MECH 3322 - Mechanics of Materials
- MECH 3325 - Materials Laboratory
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 4324 - Computer Methods in Design
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- BIOL 3500 - Micro I/Fundmntl Aspect
- BIOL 4094 - Special Topics in Biology
- BIOL 4380 - Histology/Tissue/Organ
- BIOL 4445 - Immunology

## Policy on repeated courses:

Students must earn a grade of at least "C-" in all BIOM courses applied toward the major, and in all required engineering, chemistry, physics and mathematical courses. BIOM, BIOL, CHEM, MATH and PHYS courses applicable toward the major may not be taken more than three times. Students must earn a grade of at least "C-" in BIOM 2810 before enrolling in any upper division BIOM course.

Any BIOM course applicable toward the major may be repeated once to earn a minimum grade of "C-". To repeat a course a second time, a student must apply for and receive special permission from the department Undergraduate Studies Committee. Application

information is available from one of the Academic Coordinators. A student may not attempt the same BIOM course more than three times, regardless of where it was taken. Courses cross-listed with BIOM (e.g. BIOL 4110, MECH 4365) are also subject to this course repetition policy.

## Accelerated B.S.B.E./M.S. Program in Biomedical Engineering

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Biomedical Engineering during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S.B.E./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Biomedical Engineering.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.S.B.E. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Biomedical Engineering department. Each applicant will complete an interview with the graduate academic coordinator in biomedical engineering.

Students must also apply to the Graduate School for the accelerated B.S.B.E./M.S. program, which allows them to take graduate courses in biomedical engineering. To continue in the program past the B.S.B.E., students must apply for full admission into the Graduate School and into the Biomedical Engineering department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 4-Year Biomedical Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
- BIOM 1701 - Introduction to Biomedical Engineering Design
- BIOM 1702 - Biomedication Engineering Visualization
- ENGR 1010 - Engineering Problem Solving
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- MATH 1920 - Calculus II
- BIOM 1720 - Intro Biomed Engr Tools
- ENGL 1020 - English Comp/Analysis

Academic Year Total 34 hrs

### Sophomore Year

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- BIOM 2720 - Experimental Design Analysis
- BIOL 1120 - General Biology II
- BIOL 2011 - Anat/Physiology I Lab
- BIOM 2810 - Intro Biomechanics/Mechanics of Materials

- EECE 2201 - Circuit Analysis I

or

- EECE 2283 - Electrical Engr/Instrumentation
- EECE 2281 - Instrumentation Lab

- MATH 2120 - Differential Equations

Academic Year Total 30 hrs

## Junior Year

- BIOM 3010 - Medical Measurements
- ECON 2010 - Intro to Macroeconomics
- BIOM 3110 - Med Physiology/BIOM
  - Engineering Elective (3)
- ENGL 2201 - Literary Heritage

Or

- ENGL 2202 - Lit Heritage: African-American
- BIOM 3710 - Physiological System/Modeling
- BIOM 4730 - Biomaterials
  - Tech elective (3)
  - Engineering elective (3)
- ENGL 3603 - Engineering Communications

Academic Year Total 34 hrs

## Senior Year

- BIOM 4760 - Biomed Engr Design Principles
  - Humanities/Fine Arts (3) \*
  - BIOM Elec (3)
  - Tech elective (3)
  - Engineering elective (3)
- BIOM 4780 - Senior Project
  - BIOM Elec (4)
  - Engr Elec (3)
  - Humanities/Fine Arts (3) \*
  - Social/Behavioral Sciences\* (3)

Academic Year Total 30 hrs

Total Hours: 126

Total Hours Required for Graduation: 126

*\*Must satisfy University General Education Program Requirement*

## Graduation

To qualify for the degree of Bachelor of Science in Biomedical Engineering, the student must satisfy University and College requirements, obtain a minimum 2.0 grade point average on all work completed, and obtain a minimum grade of "C-" in all engineering, mathematics, physics, biology, and chemistry courses used to satisfy degree requirements. Waiver of departmental graduation requirements for exceptional circumstances will be granted only upon approval of both the department chair and the Dean of the College of Engineering (or designee).

## Honors in Biomedical Engineering

The Biomedical Engineering Honors Program is for highly motivated and high-achieving students that provides special opportunities to advance the career and professional development of the student. The program aims to develop student talents, interests, and abilities within a curriculum, as well as encouraging independence and creativity.

Students are eligible for the honors program in biomedical engineering if they have and maintain a cumulative GPA of 3.4 with at least junior standing, and have received approval from the departmental honors committee. The honors program in biomedical engineering requires a minimum of 10 hours of upper-division biomedical engineering honors courses, including both BIOM 4800 BME Honors seminar, and completion of an honors thesis (BIOM 4999). Students who complete the honors program and the requirements for the B.S. in Biomedical Engineering will be recognized at the commencement ceremony by having their degree conferred "With Honors in Biomedical Engineering." Honors designation will also appear on the student's diploma and academic transcript.

## **Business Economics, (Accelerated B.B.A./M.A.)**

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) with a minimum grade of "C", ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) are specified for the B.B.A. degree.

## Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

A minimum of 24 upper-division semester hours as follows:

**For students choosing the Business Economics major with no concentration:**

- ECON 3310 - Microeconomic Theory
- ECON 3320 - Macroeconomic Theory
  - six upper-division economics courses (18 hours) selected with the approval of the department advisor.

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Honors Program

To be considered for the Honors Degree Program in Economics, the student must:

Maintain a minimum grade of "B" in honors sections of both ECON 2010 - Intro to Macroeconomics and ECON 2020 - Intro to Microeconomics; and obtain the recommendation of a faculty member in the Department of Economics to the Department Honors Committee.

Once accepted to the Honors Degree Program in Economics, the student must:

Maintain an average GPA of 3.25 in all economics courses to continue in the program; Have a minimum GPA of 3.5 in all economics courses at graduation; Enroll in ECON 3310 - Microeconomic Theory and ECON 3320 - Macroeconomic Theory with an honors contract. Those contracts will be discussed with and approved by the faculty member teaching each course; and write an honors thesis. This begins with finding a faculty advisor for the thesis project, discussing a thesis topic, then writing the thesis. The honors thesis typically takes one semester to complete, although work on it can begin early. When working on the honors thesis, the student will enroll in a section of ECON 4996 - Honors Thesis in Economics for up to one semester. The completed thesis will be graded by the faculty advisor.

Upon successfully completing all these requirements, the student will be recognized at the commencement ceremony by having their degree conferred "With Honors in Economics." Moreover the student's diploma and the record at the University of Memphis will reflect this accomplishment.

## Accelerated B.B.A./M.A. Program in Economics

This program allows outstanding undergraduates to begin the coursework for the Master of Arts in Economics during their senior year. Students are encouraged to begin planning to enter the Accelerated B.B.A./M.A. program early in their undergraduate career, in consultation with their advisor in the Department of Economics.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.B.A. degree while they also begin the coursework toward their M.A.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Economics department. Each applicant will complete an interview with the graduate academic coordinator in economics.

Students must also apply to the Graduate School for the accelerated B.B.A./M.A. program, which allows them to take graduate courses in economics. To continue in the program past the B.B.A., students must apply for full admission into the Graduate School and into the Economics department's M.A. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 4-Year Business Economics Sequence

### Freshman Year

- ENGL 1010 - English Composition
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1421 - Honors Calculus I
  
- or
  
- MATH 1910 - Calculus I

Semester Totals 28-30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American
  
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
  
- SCMS 2710 - Business Analytics -Statistics
  
- or
  
- MATH 1530 - Prob/Statistics/Non Calculus
  
- ACCT 2020 - Fundamentals of Acct II



- Natural Science (4) \*
- History (3) \*
- Humanities/Fine Arts (3) \*
- Elective (3)

Semester Totals 32 hrs

## Junior Year

- ECON 3310 - Microeconomic Theory
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
  - ECON elective (3)
- MIS 3210 - Critical Thinking Using Analytics
- ECON 3320 - Macroeconomic Theory
  - ECON elective (3)
- FIR 3410 - Financial Management
- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt

Semester Totals 30 hrs

## Senior Year

- ECON elective (3)
- ECON elective (3)
- Elective (3)
- SCMS 3510 - Operations Management
- MKTG 3010 - Principles of Marketing
  - ECON elective (3)
  - ECON elective (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - History (3) \*

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Civil Engineering, Accelerated (B.S.C.E./M.S.)

### Accelerated B.S.C.E./M.S. Program in Civil Engineering

This program allows outstanding undergraduates to earn a bachelor's degree and master's degree in Civil Engineering in as little as five years by taking graduate-level technical electives that will count toward both degree programs. Specifically, students who are selected into this program can satisfy the undergraduate requirement of nine hours of technical electives by taking 6000-level courses that will then be counted toward their graduate degree program. However, the graduate coursework will not apply to the undergraduate GPA.

Students are encouraged to begin planning to enter the Accelerated B.S.C.E./M.S. program early in their undergraduate career in consultation with their advisor in the Department of Civil Engineering. Students with a minimum GPA of 3.25 may apply for the accelerated program once they have completed 15 credit hours of 3000-level CIVL course work. In addition to an application form, students must have the recommendation of their undergraduate academic advisor, and the concurrence of the department chair and graduate coordinator in the Department of Civil Engineering. In order to remain in the program, students must maintain a GPA of at least 3.25. To continue in the program past the B.S.C.E. degree, students must apply for full admission into the Graduate School and the Civil Engineering M.S. program.

### University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

#### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

#### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

#### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

#### History

Waived for B.S.C.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)

### Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization
- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I

- CIVL 3131 - Design of Steel Structures
- or
- CIVL 4135 - Reinforced Concrete Design
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

## Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design
- or
- CIVL 3131 - Design of Steel Structures
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering
- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project

- CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)

Academic Year Total 35 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- CIVL 3322 - Mechanics of Materials

Academic Year Total 35 hrs

### Junior Year

- CIVL 3137 - Civil Engr Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3121 - Structural Analysis I
  - Humanities/Fine Arts (3) \*
- CIVL 3103 - Approx/Uncertainty in Engr
  
- CIVL 3131 - Design of Steel Structures

or

- CIVL 4135 - Reinforced Concrete Design
- CIVL 3161 - Transportation Systems Engr
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3182 - Hydraulics and Hydrology Lab

Academic Year Total 31 hrs

## Senior Year

- CIVL 3181 - Hydraulics and Hydrology
  - Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental
  - CIVL Elective (Grp1 or 2) (3)
  - CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

## **Communication, Accelerated B.A./M.A.**

Accelerated B.A./M.A Program in Communication

This program allows outstanding undergraduates to begin the coursework for the Master of Arts in Communication during their senior year. Students must begin planning to enter the Accelerated B.A./M.A. program early in their undergraduate career, in consultation with their advisor in the Department of Communication.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.A. degree while they also begin the coursework toward their M.A.

To apply, students should have a minimum 3.25 grade point average, and must submit a copy of their transcript and two reference letters from Department of Communication faculty to the Department chair. Each applicant will complete an interview with the undergraduate and graduate studies coordinator.

Students must also apply to the Graduate School for "combination senior" status, which allows them to take graduate courses in Communication. To continue in the program past the B.A., students must apply for full admission into the Graduate School and into the Communication department's M.A. program.

Up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs.

## **Computer Engineering, (Accelerated B.S.CP.E./M.S.)**

### **Accelerated B.S.CP.E./M.S. Program in Computer Engineering**

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Computer Engineering during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S.CP.E./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Electrical and Computer Engineering. Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study that will allow them to complete their B.S.CP.E. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Electrical and Computer Engineering department. Each applicant will complete an interview with the graduate academic coordinator in computer engineering.

Students must also apply to the Graduate School for the accelerated B.S.CP.E./M.S. program, which allows them to take graduate courses in computer engineering. To continue in the program past the B.S.CP.E, students must apply for full admission into the Graduate School and into the Electrical and Computer Engineering department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

### **Minors:**

Students satisfying the requirements for the Bachelor of Science in Computer Engineering may also satisfy requirements for a minor offered by a department in one of the other colleges. Requirements for a minor are specified by the appropriate college and department. Students should submit application for the minor to the appropriate department chair. Candidates for graduation who satisfy requirements for a minor should file the approved application with the intent-to-graduate cards.

### **General Education (36 hours)**

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### **Communication**

- ENGL 3603 - Engineering Communications instead of COMM 2381.

## Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

## History

Waived for B.S.CP.E. students who have completed one unit of history in high school.

## Social/Behavioral Sciences

- ECON 2010 - Intro to Macroeconomics must be taken in addition to 3 hours from the other specified choices.

## Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## College and Degree Requirements (24 hours)

### Mathematics (17 hours)

- MATH 1920 - Calculus II
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics
- COMP 2700 - Discrete Structures

### Natural Science (4 hours)

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab



## Collateral Course (3 hours)

- ENGR 1010 - Engineering Problem Solving

## The Major (62 hours)

### Major Core (56 hours)

Completion of the following:

- EECE 1208 - Intro EECE Lab
- COMP 1900 - CS1: Intro Comp Science
- EECE 2201 - Circuit Analysis I
- EECE 2207 - Engineering Math Applications
- EECE 2222 - Digital Circuit Design
- COMP 2150 - CS2: OOP and Data Structures
- COMP 4270 - Operating Systems
- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- EECE 3204 - Signals and Systems II
- EECE 3211 - Electronics I
- EECE 3270 - Intro to Microprocessor
- EECE 4081 - Software Engineering
- EECE 4278 - Computer Organization
- EECE 4279 - Professional Development
- EECE 4280 - Electrical/Computer Engr Design
- EECE 4991 - Electrical/Computer Projects I

### Electives (6 hours)

Computer Engineering electives from:

- EECE 4222 - Digital Logic/Computer Design
- EECE 4277 - DSP Microprocessors
- EECE 4710 - Computer Architecture
- EECE 4711 - Fault Tolerant Computer Des
- EECE 4712 - Embedded Systems
- EECE 4272 - Engineering Software
- EECE 4273 - Database Engineering
- EECE 4275 - Network Programming
- EECE 4276 - Adv Network Programming
- EECE 4720 - Intro Artificial Intelligence
- EECE 4730 - Expert Systems
- EECE 4731 - Data Visualization

## Typical 4-Year Computer Engineering Sequence

## Freshman Year

### Fall Semester

- EECE 1208 - Intro EECE Lab
- ENGL 1010 - English Composition
- ENGR 1010 - Engineering Problem Solving
- MATH 1910 - Calculus I
  - Humanities/Fine Arts\*

### Spring Semester

- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- COMP 1900 - CS1: Intro Comp Science

Academic Year Total 29 hrs

## Sophomore Year

### Fall Semester

- EECE 2201 - Circuit Analysis I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures

### Spring Semester

- EECE 2207 - Engineering Math Applications
- EECE 2222 - Digital Circuit Design
- MATH 2120 - Differential Equations
- EECE 3211 - Electronics I

Academic Year Total 30 hrs

## Junior Year

### Fall Semester

- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- MATH 3242 - Intro Linear Algebra

#### Spring Semester

- EECE 3204 - Signals and Systems II
- MATH 4614 - Probability/Statistics
- EECE 3270 - Intro to Microprocessor
- EECE 4991 - Electrical/Computer Projects I
- ENGL 3603 - Engineering Communications

Academic Year Total 33 hrs

## Senior Year

#### Fall Semester

- EECE 4278 - Computer Organization
  - CpE Elective (3)
- ECON 2010 - Intro to Macroeconomics
- EECE 4081 - Software Engineering
- EECE 4279 - Professional Development

#### Spring Semester

- EECE 4280 - Electric/Computer Engr Design
- COMP 4270 - Operating Systems
  - CpE elective (3)
  - Humanities/Fine Arts (3) \*
  - Social/Behavioral Sciences (3) \*

Academic Year Total 30 hrs

Total Hours: 121

Total Hours Required for Graduation: 121

\*Must satisfy University General Education Program Requirement

## Computer Science, (Accelerated B.S./M.S.)

The Department of Computer Science offers courses leading to a B.S. degree with a major in computer science, or a second major in computer science, or a minor in computer science. Our B.S. degree program is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (CAC/ABET).

Here are the requirements for Majors, Second Majors, and Minors respectively.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Computer Science major: Mathematics - MATH 1910; Natural Science - PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121 or CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121, or BIOL 1110/BIOL 1111, BIOL 1120/BIOL 1121; ECON 2020 is strongly recommended for the Social Science requirement.

## The Major (63 hours in addition to University General Education Program)

- MATH 1910 - Calculus I
- MATH 1920 - Calculus II
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics
  - Three Natural Science courses and labs (one sequence of Natural Science as mentioned above in General Education and a third course from the Natural Science list)
- COMP 1900 - CS1: Intro Comp Science
- COMP 1950 - Ethics and Professional Dev
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures
- COMP 3115 - Database Process and Design
- COMP 3410 - Computer Org/Architecture
- COMP 3825 - Network/Info Assurance
- COMP 4030 - Design/Analysis Algorithms
- COMP 4081 - Software Engineering
- COMP 4270 - Operating Systems
- COMP 4882 - Capstone Software Proj

### Note:

Seniors are required to take the Computer Science Field Test the same semester that they take COMP 4882.

## Second Major in Computer Science (34 hours)

Completion of 34 semester hours in computer science courses including

- COMP 1900 - CS1: Intro Comp Science
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures
- COMP 3115 - Database Process and Design
- COMP 3410 - Computer Org/Architecture
- COMP 4030 - Design/Analysis Algorithms
- COMP 4081 - Software Engineering
- COMP 4270 - Operating Systems
  - Six (6) semester hours in upper-division COMP courses
  - Nine (9) additional hours of computer science related courses

## Note:

COMP 4001, COMP 4005 and COMP 4014 may not be used to fulfill any of these requirements. Coursework must be chosen in consultation with approval of an advisor in the Department of Computer Science.

## Electives

Electives may be chosen to bring the total number of semester hours to 120. At least three of these elective hours must be from upper division courses. Students should talk to their advisors to determine most suitable courses for them.

## Computer Science Honors Designation

A student will earn the designation "with Honors in Computer Science" upon graduation having complied with the following requirements:

1. Be admitted into the Computer Science Honors Program by the Department upon formal request for consideration by the student;
2. Have a cumulative GPA of at least 3.0 and a GPA of at least 3.60 in Computer Science (COMP) courses satisfying degree requirements;
3. Complete fifteen (15) credit hours in courses designated "Honors" in the the Computer Science program and satisfying degree requirements;
4. Take honors sections of both COMP 1900 and COMP 2150 (core sequence);
5. Take at least three (3) credit hours from the following courses taken as honors sections: COMP 4901 (independent study), COMP 4996 (senior thesis), and COMP 4882 (capstone software project).

## Accelerated B.S./M.S. Program in Computer Science

This program allows outstanding majors in Computer Science to begin the coursework for the Master of Science in Computer Science while enrolled as undergraduates.. Students are encouraged to consult their advisor and begin planning to enter the Accelerated B.S./M.S. program early in their undergraduate study. The 5-year program is designed to save both cost and time as it removes some typical requirements (e.g. taking the GRE exam) in a standard application for our M.S. Program.

Candidates for the accelerated program must meet the following requirements:

- Complete COMP 1900, COMP 2150, COMP 2700, and at least two upper-division COMP courses by the end of the semester of application.
- Have a minimum 3.0 overall GPA, and a 3.6 GPA for COMP courses.

To apply for the accelerated program and be allowed to take graduate classes, students should submit two reference letters and a copy of their transcript to the Computer Science department. Applicants will be asked to complete an interview with the graduate program coordinator in computer science.

The accelerated program allows up to 9 hours of graduate course work to be applied to both the undergraduate and graduate programs. To continue in the graduate program once the B.S. degree is completed, students must apply for full admission into the Graduate School and into the Computer Science department's M.S. program. The GRE requirement for graduate admission is waived for students in the accelerated program.

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Natural Science - One sequence and one additional course/lab from: PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121; OR CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121; OR BIOL 1110/BIOL 1111, BIOL 1120/BIOL 1121.

## **Economics, (Accelerated B.A./M.A.)**

Program objectives can be found in the Business Economics major in the Fogelman College of Business and Economics section.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### The Major (30 hours)

Completion of 30 semester hours, including

- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- ECON 3310 - Microeconomic Theory
- ECON 3320 - Macroeconomic Theory
  - 18 additional upper division semester hours in economics courses as approved by the department advisor.

### Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

To be considered eligible for the Honors Degree Program in Economics, the student must:

1. Maintain a minimum grade of B in honors sections of both ECON 2010 - Intro to Macroeconomics and ECON 2020 - Intro to Microeconomics.
2. Obtain the recommendation of a faculty member in the Department of Economics to the Department Honors Committee.

Once accepted to the Honors Degree Program in Economics, the student must

1. Maintain an average GPA of 3.25 in all economics courses to continue in the program.
2. Have a minimum GPA of 3.5 in all economics courses at graduation.
3. Enroll in ECON 3310 - Microeconomic Theory and ECON 3320 - Macroeconomic Theory with an honors contract. Those contracts will be discussed with and approved by the faculty member teaching each course.
4. Write an honors thesis. This begins with finding a faculty advisor for the thesis project, discussing a thesis topic, then writing the thesis. The honors thesis typically takes one semester to complete, although work on it can begin early. When working on the honors thesis, the student will enroll in a section of ECON 4996 - Honors Thesis in Economics for up to one semester. The completed thesis will be graded by the faculty advisor.

Upon successfully completing all these requirements, the student will be recognized at the commencement ceremony by having their degree conferred "With Honors in Economics." Moreover the student's diploma and the record at the University of Memphis will reflect this accomplishment.

## Accelerated B.A./M.A. Program in Economics

This program allows outstanding undergraduates to begin the coursework for the Master of Arts in Economics during their senior year. Students are encouraged to begin planning to enter the Accelerated B.A./M.A. program early in their undergraduate career, in consultation with their advisor in the Department of Economics.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.A. degree while they also begin the coursework toward their M.A.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Economics department. Each applicant will complete an interview with the graduate academic coordinator in economics.

Students must also apply to the Graduate School for the accelerated B.A./M.A. program, which allows them to take graduate courses in economics. To continue in the program past the B.A., students must apply for full admission into the Graduate School and into the Economics department's M.A. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 4-Year Economics Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH\* (3-4)
  - Humanities/Fine Arts\* (3)
  - Elective (3)
  - Foreign Language/B.A. (3)
- ENGL 1020 - English Comp/Analysis

- Elective (3)
- Fine Arts\* (3)
- ECON 2010 - Intro to Macroeconomics
  - Foreign Language/B.A. (3)

## Semester Totals 30-31 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - Natural Science\* (4)
  - Elective (3)
- ECON 2020 - Intro to Microeconomics
  - History\* (3)
  - History\* (3)
  - Elective (3)
  - Natural Science\* (4)
  - Elective (3)
- COMM 2381 - Oral Communication

## Semester Totals 32 hrs

## Junior Year

- UD elective (3)
- UD elective (3)
- UD elective (3)
- UD ECON elective (3)
- ECON 3310 - Microeconomic Theory
  - UD elective (3)
  - UD elective (3)
  - Elective (3)
- ECON 3320 - Macroeconomic Theory
  - UD ECON elective (3)

## Semester Totals 30 hrs

## Senior Year

- Elective (3)
- UD ECON (3)
- UD ECON (3)



- UD ECON (3)
- UD ECON (3)
- UD Elective (3)
- Elective (3)
- Elective (4)
- Elective (3)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Electrical Engineering, (Accelerated B.S.E.E./M.S.)**

### **Accelerated B.S.E.E./M.S. Program in Electrical Engineering**

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Electrical Engineering during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S.E.E./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Electrical and Computer Engineering. Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study that will allow them to complete their B.S.E.E. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Electrical and Computer Engineering department. Each applicant will complete an interview with the graduate academic coordinator in electrical engineering.

Students must also apply to the Graduate School for the accelerated B.S.E.E./M.S. program, which allows them to take graduate courses in electrical engineering. To continue in the program past the B.S.E.E., students must apply for full admission into the Graduate School and into the Electrical and Computer Engineering department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

### **Minors:**

Students satisfying the requirements for the Bachelor of Science in Electrical Engineering may also satisfy requirements for a minor offered by a department in one of the other colleges. Requirements for minors are specified by the appropriate college and department. Students should submit application for the minor to the appropriate department chair. Candidates for graduation who satisfy requirements for a minor should file the approved application with the intent-to-graduate cards.

## University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

### Social/Behavioral Sciences

- ECON 2010 - Intro to Macroeconomics must be taken in addition to 3 hours from the other specified choices.

### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### History

Waived for B.S.E.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (24 hours)

### Mathematics (17 hours)

- MATH 1920 - Calculus II

- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics

## Natural Science (4 hours)

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

## Collateral Course (3 hours)

- ENGR 1010 - Engineering Problem Solving

## The Major (62 hours)

### Major Core (50 hours)

Completion of 52 hours including:

- EECE 1208 - Intro EECE Lab
  - EECE 1207 - Electrical Engr Computations
- or
- COMP 1900 - CS1: Intro Comp Science
- EECE 2201 - Circuit Analysis I
  - EECE 2207 - Engineering Math Applications
  - EECE 2222 - Digital Circuit Design
  - EECE 3201 - Circuit Analysis II
  - EECE 3203 - Signals and Systems I
  - EECE 3204 - Signals and Systems II
  - EECE 3211 - Electronics I
- EECE 3240 - Electromagnetic Field Theory
- or
- EECE 4213 - Antenna Theory/Design
- or
- EECE 4215 - Applied Electromagnetic Fields
- EECE 3270 - Intro to Microprocessor
  - EECE 4991 - Electrical/Computer Projects I
  - EECE 4201 - Energy Conversion
  - EECE 4279 - Professional Development
  - EECE 4280 - Electrical/Computer Engr Design

## Electives (12 hours)

Three (3) hours of Electrical Engineering electives are chosen from the list below. The other 6 hours are chosen from upper division EECE courses.

### Electrical Engineering Electives (3 hours) -Breadth and Depth

3 hours of Electrical Engineering electives must be chosen from:

- EECE 3212 - Electronics II
- EECE 4230 - Data Communication System
- EECE 4231 - Communication Theory
- EECE 4235 - Probabilistic System Analysis
- EECE 4251 - Control System Engr
- EECE 4252 - Digital Control Systems

### Technical Electives (3 hours)

These electives may be chosen from upper-division courses in engineering, mathematics, physics, or computer science. Approval of department chair is required for all technical electives.

### Note

Students may use elective hours to broaden their base of knowledge or for one of the concentrations below. A minimum of 9 semester hours is required for a concentration. EECE electives and technical may be used to complete a concentration.

Computer Engineering

Electrophysics

Systems and Signals

### Additional Note

With approval, Project II, EECE 4992 can be taken for 3 semester hours credit in any of the areas of concentration.

## Typical 4-Year Electrical Engineering Sequence

### Freshman Year

#### Fall Semester

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- EECE 1208 - Intro EECE Lab
- ENGR 1010 - Engineering Problem Solving
  - Humanities/Fine Arts (3) \*

#### **Spring Semester**

- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- COMP 1900 - CS1: Intro Comp Science
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I

Academic Year Total 29 hrs

## Sophomore Year

#### **Fall Semester**

- EECE 2201 - Circuit Analysis I
- EECE 2222 - Digital Circuit Design
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

#### **Spring Semester**

- EECE 2207 - Engineering Math Applications
- EECE 3211 - Electronics I
- MATH 2120 - Differential Equations
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American

Academic Year Total 29 hrs

## Junior Year

#### **Fall Semester**

- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- MATH 3242 - Intro Linear Algebra
- ENGL 3603 - Engineering Communications
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

#### **Spring Semester**

- EECE 3204 - Signals and Systems II
- EECE 3270 - Intro to Microprocessor

- EECE 4991 - Electrical/Computer Projects I
- MATH 4614 - Probability/Statistics
  
- EECE 3240 - Electromagnetic Field Theory
- or
- EECE 4213 - Antenna Theory/Design
- or
- EECE 4215 - Applied Electromagnetic Fields

Academic Year Total 33 hrs

## Senior Year

### Fall Semester

- EECE 4201 - Energy Conversion
  - EECE elective (3)
  - EECE elective (3)
- EECE 4279 - Professional Development
  - Humanities/Fine Arts (3) \*

### Spring Semester

- EECE 4280 - Electrical/Computer Engr Design
  - EECE elective (3)
- ECON 2010 - Intro to Macroeconomics
  - Social/Behavioral Sciences (3) \*
  - Technical Elective (3)

Academic Year Total 31 hrs

Total Hours: 122

Total Hours Required for Graduation: 122

*\*Must satisfy University General Education Program Requirement*

## Engineering Technology, (Accelerated B.S.E.T./M.S.)

### University General Education Program (42 hours)

See Graduation from the University link for University General Education Program requirements. Note the following are specified by the department for this program:

#### Mathematics

- MATH 1910 - Calculus I

#### Natural Science

- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II

### College and Degree Requirements (52 hours)

#### Engineering Technology Core

- ENGL 3603 - Engineering Communications
- CHEM 1010 - Chemistry of Materials
- CHEM 1011 - Chemistry of Materials Lab
- MATH 1730 - Pre-Calculus

Or

- ENGR 1009 - Prep Math for Engineering
- TECH 1010 - Computer Applications in Tech
- TECH 1211 - Computer Programming
- TECH 1411 - Introduction to Technology
- TECH 1521 - Graphics/Descriptive Geometry
- TECH 1711 - Manufacturing Process I
- TECH 1811 - Electronic Circuit Technology
- TECH 2821 - Solid State Technology
- TECH 2822 - Circuit Analysis
- TECH 3044 - Analysis for Engineering Tech
- TECH 3440 - Project Plan/Cost Evaluation
- TECH 4381 - Principles of Supervision
- TECH 4401 - Science/Technology/Society
- TECH 4462 - Quality Improvement

- TECH 4943 - Senior Project Plan Seminar
- TECH 4945 - Senior Project

## The Major (31-33 hours)

Completion of 31-33 hours of technical electives that include a minimum of two (2) of the following fields of study selected in consultation with an academic advisor:

### Automation & Control Systems

- TECH 2831 - Advanced Solid State Tech
- TECH 3821 - Industrial Electronics
- TECH 3822 - Programmable Logic Control
- TECH 4474 - Automation and Robotics
- TECH 3841 - Electrical Power/Motor Control

or

- TECH 4823 - Adv Programmable Logic Control

### Electronic Communication Systems

- TECH 2831 - Advanced Solid State Tech
- TECH 3811 - Electronic Communication
- TECH 3812 - Adv Electronic Comm Technology
- TECH 4821 - Microwave Technology

### Mechanical Systems Design

- TECH 3401 - Strength of Materials
- TECH 3421 - Manufacturing Process II
- TECH 3573 - Dynamics/Design/Automation
- TECH 4472 - Computer Aided Design
- TECH 4571 - Tool Design

### Microprocessor Systems

- TECH 2831 - Advanced Solid State Tech
- TECH 3232 - Digital Technology
- TECH 3233 - Microprocessor Technology
- TECH 4234 - Microproc Interface Technology



## Operations Strategy & Lean Principles

- TECH 4460 - Work Design/Improvement
- TECH 4464 - Production Control Systems
- TECH 4466 - Facility Design

## Product Realization

- TECH 3401 - Strength of Materials
- TECH 3421 - Manufacturing Process II
- TECH 4472 - Computer Aided Design
- TECH 4474 - Automation and Robotics
- TECH 4476 - Computer Aided Manufacturing

## Software Design

- TECH 2251 - Adv Programming Technology
- TECH 2261 - Data Structures
- TECH 4262 - Modern Programming
- TECH 4263 - Server Application Technology

## System/Network Administration

- TECH 3232 - Digital Technology
- TECH 3241 - Internet Technology
- TECH 4281 - Computer Network Technology
- TECH 4272 - Operating Systems

## Note

The core requirements satisfy prerequisites for these fields of study. Observe prerequisites when enrolling in courses within a particular field of study. NOTE: Substitutions must be approved by the Undergraduate Program Coordinator.

## Accelerated B.S.E.T./M.S. Program in Engineering Technology

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Engineering Technology during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S.E.T./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Engineering Technology.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.S.E.T. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Engineering Technology department. Each applicant will complete an interview with the graduate academic coordinator in engineering technology.

Students must also apply to the Graduate School for the accelerated B.S.E.T./M.S. program, which allows them to take graduate courses in engineering technology. To continue in the program past the B.S.E.t., students must apply for full admission into the Graduate School and into the Engineering Technology department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 4-Year Engineering Technology Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1730 - Pre-Calculus

or

- ENGR 1009 - Prep Math for Engineering
- TECH 1411 - Introduction to Technology
- TECH 1711 - Manufacturing Process I
- TECH 1010 - Computer Applications in Tech
- ENGL 1020 - English Comp/Analysis
- MATH 1910 - Calculus I
- TECH 1211 - Computer Programming
- TECH 1521 - Graphics/Descriptive Geometry
- TECH 1811 - Electronic Circuit Technology

Semester Totals 30 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
  - History (3) \*
- TECH 2821 - Solid State Technology
- TECH 2822 - Circuit Analysis
- COMM 2381 - Oral Communication
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II
- CHEM 1010 - Chemistry of Materials

- CHEM 1011 - Chemistry of Materials Lab
- TECH 3044 - Analysis for Engineering Tech
  - Technical elective (3)

Semester Totals 35 hrs

## Junior Year

- Humanities (3) \*
- History (3) \*
- ENGL 3603 - Engineering Communications
  - Technical Elective (3)
  - Technical Elective (3)
  - Social/Behavioral Sciences (3) \*
  - Technical elective (3)
  - Technical elective (3)
- TECH 4462 - Quality Improvement
- TECH 3440 - Project Plan/Cost Evaluation
- TECH 4381 - Principles of Supervision

Semester Totals 33 hrs

## Senior Year

- Social/Behavioral Sciences (3)
- Technical Elective (3-4)
- Technical elective
- Technical Elective (3)
- TECH 4401 - Science/Technology/Society
- TECH 4943 - Senior Project Plan Seminar
  - Humanities (3) \*
  - Technical elective (3-4)
  - Technical elective (3)
  - Technical elective (3)
- TECH 4945 - Senior Project

Semester Totals 39-31 hrs

Total Hours: 125-128

Total Hours Required for Graduation: 125-128

*\*Must satisfy University General Education Program Requirements*

## **English, (Accelerated B.A./M.A)**

This program allows outstanding undergraduates to begin the coursework for the Master of Arts in English during their senior year. Students are encouraged to begin planning to enter the Accelerated B.A./M.A. program early in their undergraduate career, in consultation with their advisor in the Department of English.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.A. degree while they also begin the coursework toward their M.A.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the English department. Each applicant will complete an interview with the graduate academic coordinator in English.

Students must also apply to the Graduate School for the accelerated B.A./M.A. program, which allows them to take graduate courses in English. To continue in the program past the B.A., students must apply for full admission into the Graduate School and into the English department's M.A. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

To get additional details about this program, consult the department advisor.

## **Finance - Business Finance and Real Estate Concentrations. (Accelerated B.B.A/M.S)**

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

### **The Major (24 hours)**

No grade below "C" and a minimum 2.25 GPA in the major.

### **Core requirements:**

A minimum of 24 upper division semester hours in courses as follows:

- FIR 3710 - Investments
- FIR 3720 - Financial Markets

### **Business Finance (18 hours):**

- FIR 4440 - Intermediate Managerial Finance
- FIR 4610 - Cases Managerial Finance

Choose 4 courses from the following:

- FIR 3310 - Real Estate Principles
- FIR 4011 - Retirement and Estate Planning
- FIR 4310 - Real Estate Law
- FIR 4320 - Real Estate Finance
- FIR 4331 - Stock Portfolio Mgmt
- FIR 4340 - Real Estate Appraisal
- FIR 4350 - Real Estate Investment
- FIR 4550 - International Finance
- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions
- FIR 4721 - Financial Derivative Markets
- FIR 4730 - Financial Analysis/Certification
- FIR 4770 - Security Analysis/Portfolio Management
- FIR 4870 - Risk Management
- FIR 4911 - Internship in Finance, Insurance, and Real Estate
- ECON 4112 - Organizational Econ
- ECON 4120 - Economic Forecasting
- MIS 3775 - Database/Information Management

## Real Estate (18 hours):

- FIR 3310 - Real Estate Principles
- FIR 4320 - Real Estate Finance
- FIR 4350 - Real Estate Investment

Choose 3 courses from the following:

- FIR 4310 - Real Estate Law
- FIR 4340 - Real Estate Appraisal
- FIR 4440 - Intermediate Managerial Finance
- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions
- FIR 4911 - Internship in Finance, Insurance, and Real Estate
- ECON 4112 - Organizational Econ
- ESCI 4515 - Geographic Info Science

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Accelerated B.B.A./M.S. in Finance with a concentration in Business Finance or Real Estate

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Business Administration during their senior year. Students are encouraged to begin planning to enter the Accelerated B.B.A./M.S. program early in their undergraduate careers in consultation with their advisor in the Department of Finance, Insurance, and Real Estate.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.B.A. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Department of Finance, Insurance and Real Estate. Each applicant will complete an interview with the graduate academic coordinator in finance, insurance and real estate.

Students must also apply to the Graduate School for the accelerated B.B.A./M.S. program, which allows them to take graduate courses in finance, insurance and real estate. To continue in the program past the B.B.A., students must apply for full admission into the Graduate School and into the Finance, Insurance and Real Estate department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 4-Year Business Finance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
- FIR 1220 - Personal Financial Management
- or
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - History (3) \*
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems
- MATH 1830 - Elementary Calculus
- or
  - MATH 1421 - Honors Calculus I
- or
  - MATH 1910 - Calculus I

Semester Totals 28-30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I

- ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
  - History (3) \*
  - Elective (3)
  - Humanities/Fine Arts (3) \*

Semester Totals 32 hrs

## Junior Year

- FIR 3410 - Financial Management
- MIS 3210 - Critical Thinking Using Analytics
- SCMS 3711 - Business Analytics - Tools
- MGMT 3510 - Business Communications
- ACCT 3130 - Legal/Social/Political Environ
- FIR 3710 - Investments
- FIR 3720 - Financial Markets
- SCMS 3510 - Operations Management
  - FIR elective (3)
- MGMT 3110 - Organization and Mgmt

Semester Totals 30 hrs

## Senior Year

- FIR 4440 - Intermediate Managerial Finance
  - FIR elective (3)
  - FIR elective (3)
- MKTG 3010 - Principles of Marketing
  - Elective (3)
- FIR 4610 - Cases Managerial Finance
  - FIR elective (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Typical 4-Year Real Estate Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities/Fine Arts (3) \*
- FIR 1220 - Personal Financial Management

or

- Elective (3)
- MATH 1710 - College Algebra (if needed)
- MIS 2749 - Foundation/Information Systems
- ENGL 1020 - English Comp/Analysis
  - History (3) \*
- ECON 2010 - Intro to Macroeconomics

Humanities/Fine Arts (3) \*

- MATH 1830 - Elementary Calculus

or

- MATH 1421 - Honors Calculus I

or

- MATH 1910 - Calculus I

Semester Totals 30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I



- ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
- Natural Science (4) \*
- COMM 2381 - Oral Communication
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - History (3) \*
  - Natural Science (4) \*
- ECON 2020 - Intro to Microeconomics
  - Elective (1-3)

### Semester Totals 30-32 hrs

### Junior Year

- FIR 3410 - Financial Management
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
- MIS 3210 - Critical Thinking Using Analytics
- MGMT 3110 - Organization and Mgmt
  - FIR elective (3)
- FIR 3720 - Financial Markets
- SCMS 3510 - Operations Management
- MGMT 3510 - Business Communications
- FIR 3310 - Real Estate Principles

### Semester Totals 30 hrs

### Senior Year

- FIR 3710 - Investments
- FIR 4320 - Real Estate Finance
  - FIR elective (3)
  - FIR elective (3)
  - Elective (3)
- MKTG 3010 - Principles of Marketing
- FIR 4350 - Real Estate Investment
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Mathematical Sciences - Mathematics Concentration, (Accelerated B.S./M.S.)**

### **Mathematical Sciences Major (B.S.)**

Program objectives for a B.S. in Mathematical Sciences are to: (a) understand the notion of a real valued function; (b) understand the concept of differentiation and be able to apply the rules of differentiation to functions of one real variable. Be able to use these techniques to solve problems in optimization; (c) understand the use of vector analysis to describe the geometry of higher dimensional spaces; (d) understand how to extend the concepts of the calculus of functions of one variable to higher dimensions; (e) use matrices to solve systems of linear equations and to describe linear transformations; (f) understand abstract structures in mathematics; (g) be able to read and present mathematical proofs including an understanding of the basic types of proofs; (h) be able to formulate their own proofs of simple mathematical statements; (i) be able to use a computer to assist with the solution of mathematical problems; (j) Have advanced knowledge of at least one specialist area of mathematics: Statistics, Mathematics, or Teaching Mathematics.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Mathematical Sciences major:

#### **Mathematics:**

- MATH 1910 - Calculus I

#### **Natural Science:**

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## The Major (41-42 hours in addition to University General Education Program)

### Major Core (17 hours):

Completion of

- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra

### Plus the Following Courses:

(Your choice will satisfy the University General Education Program requirements for science).

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### Mathematics (21-22 hours):

- COMP 1900 - CS1: Intro Comp Science

or

- COMP 4001 - Computer Programming
  - 18 semester hours of upper division courses with departmental approval.

## Note:

All approved programs will include no more than 9 semester hours chosen from MATH 4607, MATH 4635, MATH 4636, MATH 4637, MATH 4640. Students are encouraged to work with their advisors to plan their programs.

## Additional Course (3 hours):

Each major must take one additional upper division MATH course.

## Accelerated BS/MS Degree Program, with concentrations in Applied Mathematics, Mathematics, and Statistics

This program allows outstanding undergraduates to complete both a Bachelor of Science degree in Mathematical Sciences and a Master of Science degree in Mathematical Sciences with concentration in Applied Mathematics, Mathematics or Statistics. Students admitted into the program will follow a carefully designed program of study which allows them to begin course work for the Master of Science program during their senior year. Interested students are encouraged to consult with their undergraduate advisor in the Department of Mathematical Sciences and to begin planning to enter the accelerated BS/MS degree program early in their undergraduate career. Through careful coordination with their undergraduate and graduate advisors students will be able to graduate with both a bachelor's and master's degree within a five year period.

To apply, students must have finished 18 credit hours of course work in mathematics by the end of the semester of their application. Applicants must have a cumulative GPA of 3.00 (on a 4.0 scale) as well as a GPA of 3.30 (on a 4.0 scale) in their mathematics courses. The initial application for the accelerated BS/MS degree program consists of the following two parts:

1. A letter of intent including two letters of reference and a copy of the applicant's transcript to be submitted to the Department of Mathematical Sciences
2. Application with the Graduate School for "combination senior" status

To continue in the program beyond the bachelor's degree, students must also apply for full admission into the Graduate School and be accepted into the master's program by the Department of Mathematical Sciences.

Up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. Details on courses that can be applied will be available in the Department of Mathematical Sciences. However, any graduate course work will not be used to calculate the undergraduate GPA.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Department of Mathematical Sciences offers an honors program in Mathematics and Statistics for the talented student. To be admitted into the program, an entering freshman must score at least 29 on the Math ACT, and have a high-school GPA of 3.50, although exceptions may be made by the freshman's advisor, based upon an interview at the time of initial registration.

Currently enrolled students may be admitted into the Honors Program upon an interview with the Departmental Honors Director. The basic requirements will be a 3.5 GPA on all MATH courses, an overall GPA of 3.25, and timely progress toward a degree. Such students may be admitted into MATH 1421, MATH 2421, or MATH 2422. Upon completion of the entry course with a grade of at least B, such students will retroactively receive credit for any previous course(s) in the Honors Sequence. A student **may not** enroll in MATH 3402 without having previously completed MATH 2422.

The successful candidate will complete the Major Core as listed about under item C, and complete one of the Areas of Concentration listed above, with the following exceptions and additions:

- In place of MATH 1910, MATH 1920, MATH 2110 and MATH 3242, the Honors student must complete the four-course sequence of Honors Mathematics courses (MATH 1421, MATH 2421, MATH 2422 and MATH 3402), and two semesters of the Mathematics Honors Seminar, MATH 3410 and MATH 3411.
- Upon successful completion of the courses listed above, the student shall be considered to have completed MATH 3242, **and** MATH 2120 for prerequisite and graduation purposes.
- The Honors student must take MATH 4402 - Senior Honors Seminar.
- Each of MATH 1421, MATH 2421, MATH 2422, MATH 3402, MATH 3410, MATH 3411, MATH 4402 must be completed with at least a grade of B.
- A GPA of 3.50 in all MATH courses must be maintained.

Upon completion of the program, the successful candidates will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Mathematical Sciences," and their diplomas and records at the University of Memphis will reflect this distinction.

## Typical 4-Year Mathematics Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
  - Social/Behavioral Sciences\* (3)
  - Elective (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
  - Natural Science\*\* (4)
  - Elective (3)

Semester Totals 30 hrs

### Sophomore Year

- History\* (3)
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III

- Natural Science\*\* (4)
- Social/Behavioral Sciences\* (3)
- History\* (3)
- MATH 2702 - Intro Proof/Fundamental Math
- COMM 2381 - Oral Communication
  - Humanities/Fine Arts\* (3)
- MATH 2120 - Differential Equations

Semester Totals 32 hrs

## Junior Year

- MATH 3242 - Intro Linear Algebra
  - UD MATH (3)
  - UD Elective (3)
  - UD elective (3)
- COMP 4001 - Computer Programming
  - Humanities/Fine Arts\* (3)
  - UD elective (3)
  - Elective (3)
  - UD MATH (3)
  - UD MATH (3)

Semester Totals 30 hrs

## Senior Year

- UD MATH (3)
- UD MATH (3)
- UD MATH (3)
- UD MATH (3)
- Elective (3)
- Elective (3)
- Elective (3)
- UD elective (3)
- UD elective (3)
- Elective (1)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one Natural Science sequence: CHEM 1110/CHEM 1111 and CHEM 1120/CHEM 1121 , OR PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.

## **Mathematical Sciences - Statistics Concentration, (Accelerated B.S./M.S.)**

### **Mathematical Sciences Major (B.S.)**

Program objectives for a B.S. in Mathematical Sciences are to: (a) understand the notion of a real valued function; (b) understand the concept of differentiation and be able to apply the rules of differentiation to functions of one real variable. Be able to use these techniques to solve problems in optimization; (c) understand the use of vector analysis to describe the geometry of higher dimensional spaces; (d) understand how to extend the concepts of the calculus of functions of one variable to higher dimensions; (e) use matrices to solve systems of linear equations and to describe linear transformations; (f) understand abstract structures in mathematics; (g) be able to read and present mathematical proofs including an understanding of the basic types of proofs; (h) be able to formulate their own proofs of simple mathematical statements; (i) be able to use a computer to assist with the solution of mathematical problems; (j) Have advanced knowledge of at least one specialist area of mathematics: Statistics, Mathematics, or Teaching Mathematics.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Mathematical Sciences major:

#### **Mathematics:**

- MATH 1910 - Calculus I

#### **Natural Science:**

- CHEM 1110 - General Chemistry I

- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## The Major (41-42 hours in addition to University General Education Program)

### Major Core (17 hours):

Completion of

- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra

### Plus the Following Courses:

(Your choice will satisfy the University General Education Program requirements for science).

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### Statistics (21 hours):

- COMP 4001 - Computer Programming
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
- MATH 4640 - Intro Probability Models



## One of

- MATH 4607 - Intro SAS Programming
- or
- MATH 4637 - Intro/Stat Models/Analysis

## 6 Additional Upper Division Hours Chosen From:

- MATH 4242 - Linear Algebra
- MATH 4261 - Abstract Algebra
- MATH 4350 - Intro Real Analysis I
- MATH 4351 - Intro Real Analysis II
- MATH 4361 - Complex Variables
- MATH 4391 - Partial Differential Eqns I
- MATH 4607 - Intro SAS Programming
- MATH 4637 - Intro/Stat Models/Analysis
- MATH 4643 - Intro Regression/Time Ser Anyl
- MATH 4721 - Numerical Analysis

## Note:

All approved programs will include no more than 9 semester hours chosen from MATH 4607, MATH 4635, MATH 4636, MATH 4637, MATH 4640. Students are encouraged to work with their advisors to plan their programs.

## Additional Course (3 hours):

Each major must take one additional upper division MATH course.

## Accelerated BS/MS Degree Program, with concentrations in Applied Mathematics, Mathematics, and Statistics

This program allows outstanding undergraduates to complete both a Bachelor of Science degree in Mathematical Sciences and a Master of Science degree in Mathematical Sciences with concentration in Applied Mathematics, Mathematics or Statistics. Students admitted into the program will follow a carefully designed program of study which allows them to begin course work for the Master of Science program during their senior year. Interested students are encouraged to consult with their undergraduate advisor in the Department of Mathematical Sciences and to begin planning to enter the accelerated BS/MS degree program early in their undergraduate career. Through careful coordination with their undergraduate and graduate advisors students will be able to graduate with both a bachelor's and master's degree within a five year period.

To apply, students must have finished 18 credit hours of course work in mathematics by the end of the semester of their application. Applicants must have a cumulative GPA of 3.00 (on a 4.0 scale) as well as a GPA of 3.30 (on a 4.0 scale) in their mathematics courses. The initial application for the accelerated BS/MS degree program consists of the following two parts:

1. A letter of intent including two letters of reference and a copy of the applicant's transcript to be submitted to the Department of Mathematical Sciences
2. Application with the Graduate School for "combination senior" status

To continue in the program beyond the bachelor's degree, students must also apply for full admission into the Graduate School and be accepted into the master's program by the Department of Mathematical Sciences.

Up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. Details on courses that can be applied will be available in the Department of Mathematical Sciences. However, any graduate course work will not be used to calculate the undergraduate GPA.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Department of Mathematical Sciences offers an honors program in Mathematics and Statistics for the talented student. To be admitted into the program, an entering freshman must score at least 29 on the Math ACT, and have a high-school GPA of 3.50, although exceptions may be made by the freshman's advisor, based upon an interview at the time of initial registration.

Currently enrolled students may be admitted into the Honors Program upon an interview with the Departmental Honors Director. The basic requirements will be a 3.5 GPA on all MATH courses, an overall GPA of 3.25, and timely progress toward a degree. Such students may be admitted into MATH 1421, MATH 2421, or MATH 2422. Upon completion of the entry course with a grade of at least B, such students will retroactively receive credit for any previous course(s) in the Honors Sequence. A student **may not** enroll in MATH 3402 without having previously completed MATH 2422.

The successful candidate will complete the Major Core as listed about under item C, and complete one of the Areas of Concentration listed above, with the following exceptions and additions:

- In place of MATH 1910, MATH 1920, MATH 2110 and MATH 3242, the Honors student must complete the four-course sequence of Honors Mathematics courses (MATH 1421, MATH 2421, MATH 2422 and MATH 3402), and two semesters of the Mathematics Honors Seminar, MATH 3410 and MATH 3411.
- Upon successful completion of the courses listed above, the student shall be considered to have completed MATH 3242, **and** MATH 2120 for prerequisite and graduation purposes.
- The Honors student must take MATH 4402 - Senior Honors Seminar.
- Each of MATH 1421, MATH 2421, MATH 2422, MATH 3402, MATH 3410, MATH 3411, MATH 4402 must be completed with at least a grade of B.
- A GPA of 3.50 in all MATH courses must be maintained.

Upon completion of the program, the successful candidates will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Mathematical Sciences," and their diplomas and records at the University of Memphis will reflect this distinction.

## Typical 4-Year Statistics Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition

- MATH 1910 - Calculus I
  - Social/Behavioral Sciences\* (3)
  - Elective (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
  - Natural Science\*\* (4)
  - Elective (3)

Semester Totals 30 hrs

## Sophomore Year

- History\* (3)
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
  - Natural Science\*\* (4)
  - Social/Behavioral Sciences\* (3)
  - History\* (3)
- MATH 2702 - Intro Proof/Fundamental Math
- COMM 2381 - Oral Communication
  - Humanities/Fine Arts\* (3)
- MATH 2120 - Differential Equations

Semester Totals 32 hrs

## Junior Year

- MATH 3242 - Intro Linear Algebra
  - UD MATH (3)
- COMP 4001 - Computer Programming
  - UD Elective (3)
  - Elective (3)
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
  - Humanities/Fine Arts\* (3)
  - UD elective (3)
  - UD elective (3)

Semester Totals 30 hrs

## Senior Year

- MATH 4640 - Intro Probability Models
  - UD MATH\*\*\* (3)
  - Elective (3)
  - Elective (3)
  - UD elective (3)
  
- MATH 4607 - Intro SAS Programming
  
- or
  
- MATH 4637 - Intro/Stat Models/Analysis
  - UD MATH\*\*\* (3)
  - Elective (3)
  - UD elective (3)
  - Elective (1)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one Natural Science sequence: CHEM 1110/CHEM 1111 and CHEM 1120/CHEM 1121, OR PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.

\*\*\*Choose from MATH 4120/6120, MATH 4242, MATH 4261, MATH 4350, MATH 4351, MATH 4361, MATH 4391, MATH 4551, MATH 4607, MATH 4637, MATH 4643, MATH 4721

## **Mechanical Engineering, (Accelerated B.S.M.E./M.S.)**

### **Accelerated B.S.M.E./M.S. Program in Mechanical Engineering**

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Mechanical Engineering during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S.M.E./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Mechanical Engineering.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.S.M.E. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Mechanical Engineering department. Each applicant will complete an interview with the graduate academic coordinator in mechanical engineering.

Students must also apply to the Graduate School for the accelerated B.S.M.E./M.S. program, which allows them to take graduate courses in mechanical engineering. To continue in the program past the B.S.M.E., students must apply for full admission into the Graduate School and into the Mechanical Engineering department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

### Social/Behavioral Sciences

- ECON 2010 - Intro to Macroeconomics must be taken in addition to 3 hours from the other specified choices.

### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### History

Waived for B.S.E.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (26 hours)

### Mathematics (11 hours)

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
  - MATH 3120

### Natural Science (8 hours)

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab

### Collateral Courses (7 hours)

- CIVL 2131 - Statics

### One of the Following:

- EECE 2201 - Circuit Analysis I
- EECE 2203 - Circuit Analysis Lab

or

- EECE 2281 - Instrumentation Lab
- EECE 2283 - Electrical Engr/Instrumentation

## The Major (66 hours)

### Completion of

- MECH 1310 - Intro/Mechanical Engineering
- MECH 1312 - Mech Engr Computing I
- MECH 1314 - Mech Engr Computing II
- MECH 2316 - Engineering Design Comm I
- MECH 2332 - Dynamics
- MECH 3311 - Engineering Thermodynamics I
- MECH 3312 - Engineering Thermodynamics II
- MECH 3316 - Engineering Design Comm II
- MECH 3320 - Engineering Materials
- MECH 3321 - Mechanics of Machines
- MECH 3322 - Mechanics of Materials
- MECH 3323 - Machine Design
- MECH 3325 - Materials Laboratory
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 3341 - Numerical/Statistical Methods
- MECH 3351 - Heat Transfer I
- MECH 3355 - Thermo/Heat Transfer Lab
- MECH 4300 - Prep/Professional Practice
- MECH 4314 - Senior Design I
- MECH 4319 - Engineering Econ/Project Mgmt
- MECH 4322 - System Dynamics
- MECH 4323 - Senior Design II
- MECH 4335 - System Dynamics Lab

### Electives (9 hours)

Nine (9) hours of electives approved by the student's academic advisor.

## Typical 4-Year Mechanical Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
- MECH 1310 - Intro/Mechanical Engineering
- MECH 1312 - Mech Engr Computing I
- ENGL 1020 - English Comp/Analysis
  - Natural Science (4) \*
- MATH 1920 - Calculus II
- MECH 1314 - Mech Engr Computing II
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I

## Semester Totals 32 hrs

### Sophomore Year

- MATH 2110 - Calculus III
  - PHYS 2120 - Sci/Engr Phys II/Calc (3-4)
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2131 - Statics
- MECH 2318 - Engr Design Communication
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- MECH 3322 - Mechanics of Materials
- EECE 2201 - Circuit Analysis I
- EECE 2203 - Circuit Analysis Lab

- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American

## Semester Totals 31 hrs

### Junior Year

- Social Science (3)
- MECH 3311 - Engineering Thermodynamics I
- MECH 3320 - Engineering Materials
- MECH 3321 - Mechanics of Machines
- MECH 3325 - Materials Laboratory
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 3312 - Engineering Thermodynamics II
- MECH 3323 - Machine Design
- MECH 3341 - Numerical/Statistical Methods
- MECH 3351 - Heat Transfer I
- MECH 3355 - Thermo/Heat Transfer Lab
- ENGL 3603 - Engineering Communications

## Semester Totals 33 hrs

### Senior Year

- MECH 4319 - Engineering Econ/Project Mgmt
- MECH 4314 - Senior Design I
- MECH 4300 - Prep/Professional Practice
- MECH 4322 - System Dynamics



- Humanities/Fine Arts (3) \*
- MECH Elective (3)
- MECH 4335 - System Dynamics Lab
- MECH 4323 - Senior Design II
  - Technical elective (3) \*\*
  - MECH elective (3)
  - Humanities/Fine Arts (3) \*
- ECON 2010 - Intro to Macroeconomics

Semester Totals 32 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

*\*\* An upper division course in engineering, mathematics, physics, or chemistry. Advisor's approval required.*

## **Physics, (Accelerated B.S./M.S.)**

Program objectives for a B.S. in Physics are: (a) knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving.

## **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

### **Mathematics**

- MATH 1910 - Calculus I

### **Natural Science**

- CHEM 1110 - General Chemistry I

- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

## The Major: (59-66 hours in addition to University General Education Program)

### Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4211 - Waves and Optics
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Accelerated B.S./M.S. Program in Physics

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Physics during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Physics and Materials Science.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.S. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Department of Physics and Materials Science department. Each applicant will complete an interview with the graduate academic coordinator in physics.

Students must also apply to the Graduate School for the accelerated B.S./M.S. program, which allows them to take graduate courses in physics. To continue in the program past the B.S., students must apply for full admission into the Graduate School and into the M.S. program of the Department of Physics and Materials Science.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Physics, (B.S.)/Biomedical Engineering, (M.S.)

Program objectives for a B.S. in Physics are: (a) knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

### Mathematics

- MATH 1910 - Calculus I

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

## The Major: (59-66 hours in addition to University General Education Program)

Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4211 - Waves and Optics
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Dual-Degree Programs

Highly motivated and talented students may pursue an undergraduate degree (B.S.) in Physics followed by a graduate (M.S.) in either Physics or Biomedical Engineering in a special five-year program. This option requires serious commitment, careful planning with the student's advisor, and summer research work leading toward a Master's thesis. Students interested in pursuing this option should contact an undergraduate advisor in the Physics and Materials Science department.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Physics, (B.S./M.S.)

Program objectives for a B.S. in Physics are: (a) knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

### Mathematics

- MATH 1910 - Calculus I

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

## The Major: (59-66 hours in addition to University General Education Program)

### Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4211 - Waves and Optics

- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Dual-Degree Programs

Highly motivated and talented students may pursue an undergraduate degree (B.S.) in Physics followed by a graduate (M.S.) in either Physics or Biomedical Engineering in a special five-year program. This option requires serious commitment, careful planning with the student's advisor, and summer research work leading toward a Master's thesis. Students interested in pursuing this option should contact an undergraduate advisor in the Physics and Materials Science department.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Political Science, (Accelerated B.A./M.A)

Program objectives for a B.A. in Political Science are: (a) basic understanding of political institutions and processes in the United States and other countries; (b) basic understanding of the ways in which countries interact with one another, directly or through intermediary institutions; (c) basic understanding of the development of political thought; (d) able to apply basic political science methodologies to political science questions; (e) able to analyze and explain political processes and outcome; (f) able to interpret political attitudes, values, and beliefs; (g) have the critical thinking skills necessary for careers in government, business, law, or academia.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## The Major (36 hours)

For the purposes of defining undergraduate requirements for the political science major and minor, the department employs four subfields, with the following courses in each:

### American Government and Politics:

- POLS 1030 - American Government
- POLS 3211 - State/Local Government
- POLS 3213 - Intro to Public Policy
- POLS 3215 - Interest Groups/Amer Politics
- POLS 3216 - Political Parties/Elections
- POLS 3217 - The Political Media
- POLS 3218 - The American Presidency
- POLS 3219 - Judicial Process
- POLS 3220 - U. S. Congress
- POLS 3221 - Public Opinion
- POLS 3405 - Intro Law/Jurisprudence
- POLS 4200 - Envrnmntl Law/Policy/Regulatr
- POLS 4211 - Const Law/National Powers
- POLS 4212 - Const Law Civil Liberty
- POLS 4222 - Urban Politics
- POLS 4223 - Issues/Urban Politics
- POLS 4701 - Policy Perspectives

### Comparative Politics:

- POLS 1301 - Intro to Comparative Politics
- POLS 3302 - West Europe Govt/Politics
- POLS 3306 - Latin American Govt/Politics
- POLS 3309 - Govt/Politics of Mid East
- POLS 3310 - Politics/Developed World
- POLS 3320 - Human Rights/World Politics
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3340 - Power/Politics/State

- POLS 4307 - Govt and Pol Communist China
- POLS 4315 - Revolution/Political Violence
- POLS 4317 - Democratic Transitions
- POLS 4820 - Political History of Israel

## International Relations:

- POLS 1501 - International Relations
- POLS 3505 - International Organizations
- POLS 3506 - American Foreign Policy
- POLS 3509 - Contmp Prblm Intl Relation
- POLS 4504 - International Law
- POLS 4506 - Prob American Foreign Policy
- POLS 4508 - Theories Internatl Relations
- POLS 4510 - Politics of Global Economy
- POLS 4511 - International Security
- POLS 4512 - Global Environmental Politics

## Political Theory:

- POLS 1101 - Intro Ancient Political Thgt
- POLS 1102 - Intro Modern Political Thought
- POLS 3102 - Religion and Politics
- POLS 3401 - Legal/Pol Thght Classical
- POLS 3402 - Legal/Political Thght Modern
- POLS 3410 - Contemporary Political Thght
- POLS 3415 - Feminist Political Theory
- POLS 3420 - Race and Politics in U.S.
- POLS 4405 - Origin/Dev Amer Pol Thought
- POLS 4415 - African-Am Pol Thght to 1900
- POLS 4416 - African-Am Pol Tht from 1900

## Note:

Students must complete POLS 1030 and POLS 4101.

Students must complete at least 6 hours in each of the four subfields listed above.

No more than 9 total hours of internship (POLS 4230, POLS 4231), mock trial (POLS 4709), research and study abroad (POLS 4399), and independent study (POLS 4702) combined may be counted toward the 36 hours required for a major in Political Science. Of these 9 hours, no more than three hours of Administrative Internship (POLS 4231), and no more than six total hours in any combination of POLS 4709, POLS 4399, and POLS 4702 may be counted toward the major.

At least 15 hours in political science must be earned in residence at the University of Memphis.

NOTE: Students who have successfully completed an equivalent social statistics course prior to declaring a Political Science major are exempted from the requirement to take POLS 4101, and must substitute another upper-division course in Political Science.

NOTE: The College offers Pre-Law advising for those interested in careers in law. Also, any major in Political Science may earn a second major in International Studies. Political Science courses in International Relations and Comparative Politics fulfill requirements for both the Political Science major and the interdisciplinary major in International Studies.



## Accelerated B.A./M.A Program in Political Science

This program allows outstanding undergraduates to begin the coursework for the Master of Arts in Political Science during their senior year. Students are encouraged to begin planning to enter the Accelerated B.A./M.A. program early in their undergraduate career, in consultation with their advisor in the Department of Political Science.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.A. degree while they also begin the coursework toward their M.A.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Political Science department. Each applicant will complete an interview with the graduate academic coordinator in political science.

Students must also apply to the Graduate School for the accelerated B.A./M.A. program, which allows them to take graduate courses in political science. To continue in the program past the B.A., students must apply for full admission into the Graduate School and into the Political Science department's M.A. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The department offers an honors program to qualified majors who choose to pursue a more sophisticated knowledge of the discipline, a more rigorous level of analysis, and a deeper understanding of politics. Students who have completed 55 hours of course work (with at least 9 hours in Political Science) and have a minimum over-all grade point average of 3.0 (with a minimum in Political Science of 3.25), or who can present equivalent qualifications, are invited to apply for admission to the program. The program requires 18 hours of honors course work, 12 or more of which must be upper-division Political Science courses, and minimum final grade point averages of 3.00 overall, 3.25 in Political Science, and 3.25 in honors coursework. Honors students also have the option of completing a Senior Thesis in Political Science (POLS 4999). Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Political Science." Moreover, the student's diploma and the record at the University of Memphis will reflect this distinction. Details of the program are available in the Political Science Office.

## Typical 4-Year Political Science Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH\* (3-4)
- POLS 1030 - American Government
  - Elective (3)
  - Foreign Language/B.A. (3)

- ENGL 1020 - English Comp/Analysis
  - Elective (3)
- POLS 1501 - International Relations
- POLS 1101 - Intro Ancient Political Thgt
- or
- POLS 1102 - Intro Modern Political Thought
  - Foreign Language/B.A. (3)

Semester Totals 30-31 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - History\* (3)
  - Natural Science\* (4)
- POLS 1301 - Intro to Comparative Politics
  - Fine Arts\* (3)
  - POLS Political Theory (3)
  - Natural Science\* (4)
  - Elective (3)
  - Elective (3)
- COMM 2381 - Oral Communication

Semester Totals 32 hrs

## Junior Year

- UD elective (3)
- Elective (3)
- UD POLS (3)
- UD POLS Comparative Politics (3)
- POLS 4101 - Political Statistics
  - UD POLS Amer. Gov. & Policy (3)
  - UD POLS International Relations (3)
  - UD POLS (3)
  - UD elective (3)
  - Elective (3)

Semester Totals 30 hrs

## Senior Year

- POLS 4212 - Const Law Civil Liberty
- or
- POLS 4405 - Origin/Dev Amer Pol Thought
  - Elective (3)
  - Elective (3)
  - UD elective (3)
  - UD elective (3)
  - UD elective (3)
  - UD elective (3)
  - UD elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Sociology, (Accelerated B.A./M.A)**

Program objectives for a B.A. in Sociology are: (a) an understanding of and competence in the major theories, statistical techniques, and methodological approaches of sociology; (b) development of theoretical, substantive, and methodological knowledge to conduct research projects or participate in applied research projects; (c) participation in an internship or discipline related experiences; (d) preparation for employment in a sociology-related field or advanced study in sociology or other graduate field.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## The Major (30 hours)

Completion of 30 semester hours in sociology,

- SOCI 1010 - Introduction to Sociology
- SOCI 3311 - Social Statistics
- SOCI 3322 - Methods of Social Research
  
- SOCI 4210 - Rise of Sociological Theory
  
- or
  
- SOCI 4211 - Contemp Sociological Theory
  
- SOCI 4999 - Senior Thesis Seminar (or SOCI 4998 for Honors students)
  - 15 additional upper-division hours in SOCI.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Accelerated B.A./M.A. Program in Sociology

This program allows outstanding undergraduates to begin the coursework for the Master of Arts in Sociology during their senior year. Students are encouraged to begin planning to enter the Accelerated B.A./M.A. program early in their undergraduate career, in consultation with their advisor in the Department of Sociology.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.A. degree while they also begin the coursework toward their M.A.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Sociology department. Each applicant will complete an interview with the graduate academic coordinator in sociology.

Students must also apply to the Graduate School for the accelerated B.A./M.A. program, which allows them to take graduate courses in sociology. To continue in the program past the B.A., students must apply for full admission into the Graduate School and into the Sociology department's M.A. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 5 Year Accelerated BA/MA Sociology Sequence (Thesis) (GA)

(SOC 7210, SOC 7320 and SOC 6312 in senior year count as both grad and undergrad)

### Freshman Year (31 hrs)

#### First Semester Freshman

- ENGL 1010 - English Composition
- MATH 1420 - Foundations of Mathematics

or

- MATH 1710 - College Algebra
  - BA Foreign Language 1010 (3)
  - Lower Division Elective (3)
- SOC 1010 - Introduction to Sociology

#### Second Semester Freshman

- ENGL 1020 - English Comp/Analysis
  - Natural Science (4)
  - Social/Behavioral Science
  - BA Foreign Language 1020
  - Humanities

### Sophomore Year (31 hrs)

#### First Semester Sophomore

- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - BA Foreign Language 2010
  - Natural Science (4)
- SOC 3422 - Racial/Ethnic Minorities

## Second Semester Sophomore

- SOCI 3311 - Social Statistics
  - Fine Arts
  - BA Foreign Language 2020
  - Elective (3)
  - Elective (3)

## Junior Year (36 hrs)

### First Semester Junior

- SOCI 3322 - Methods of Social Research
  - Upper Division Electives (6)
  - Lower Division Electives (6)
  - History

### Second Semester Junior

- SOCI 4210 - Rise of Sociological Theory
- or
- SOCI 4211 - Contemp Sociological Theory
  - Upper Division Electives (6)
  - Lower Division Electives (6)
  - Upper Division SOCI

## Senior Year (27 hrs)

### First Semester Senior

- SOCI 4999 - Senior Thesis Seminar
  - Elective (3)
  - SOCI 7210
  - SOCI 7230

### Second Semester Senior

- Upper Division Elective (6)
- Lower Division Elective (3)
- SOCI 6312
- SOCI 7000 level

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Fifth Year MA Program (24 hrs)

Total Hours Require for MA thesis option: 30

This plan: 30 (SOC 7210, SOC 7320 and SOC 6312 in senior year count as both grad and undergrad; SOC 7914 does not count toward this 30)

### First Semester 5th Year

- SOC 7000 level
- SOC 7996
- Grad Elective
- SOC 7914

### Second Semester 5th Year

- SOC 7996
- Grad Elective
- Grad Elective
- SOC 7914

## Certificate

### Empirical Economic Analysis Certificate

#### Requirements

Students wishing to be certified by the Economics Department take four (4) classes to complete the Certificate Program. Three (3) of the classes can be selected from the list below:

- ECON 4120 - Economic Forecasting
- ECON 4810 - Quant Economics Analysis
- ECON 4820 - Econometrics
- MATH 4607 - Intro SAS Programming
- MATH 4611 - Intro Applied Statistics

## Note

The fourth class consists of a capstone research project. This class can be any upper-division economics class not listed above, where the student would complete the capstone research project on the subject matter discussed in the class. When an appropriate upper-division economics class is not available, an alternative is to take ECON 4910 - Independent Study in Economics under the supervision of a faculty member appointed by the Department Chair.

The economics classes taken under this certificate program count for major credits for any students majoring in Business Economics. However, the MATH classes cannot be used to substitute for any upper-division courses in the Business Economics major. Further, at least two (2) of the four (4) classes required by the Certificate Program must be economics courses.

The Economics Certificate is issued by the Economics Department and is not posted to the student's transcript.

## Financial Analyst Certificate

### Requirements

#### Students Wishing to Receive the Financial Analyst Certificate Must Take:

- FIR 3710 - Investments
- FIR 3720 - Financial Markets
- FIR 4730 - Financial Analysis/Certification

#### Any Two of the Following:

- FIR 4331 - Stock Portfolio Mgmt
- FIR 4721 - Financial Derivative Markets
- FIR 4770 - Security Analysis/Portfolio Management
- FIR 4911 - Internship in Finance, Insurance, and Real Estate (internship with a CFA charter holder member)

## Note

When an appropriate upper-division FIR class is not available, an alternative is to take FIR 4910 - Independent Study in Finance, Insurance, Real Estate under the supervision of a faculty member appointed by the Department Chair. Classes taken in conjunction with the Financial Analyst Certificate may count for credit for any students in the BBA Finance major.



Students qualifying for the Financial Analyst Undergraduate Certificate are required to receive a minimum of a B grade in each of the above classes. It is incumbent on each student to petition the Department Chair of his or her qualifications to receive the Certificate. The certificate is issued by the Department of Finance, Insurance and Real Estate and is not posted on the student's transcript.

**Note:** For BBA students majoring in Finance with a concentration in Banking and Financial Services that wish to earn the Financial Analyst Certificate, in addition to FIR 3710, 3720, 4710, 4720, 4730; take 6 hours from FIR 4331, 4721, 4770, 4911; and take 3 hours from FIR 3310, 3810, 4011, 4310, 4320, 4331, 4350, 4440, 4610, 4620, 4810, 4870, ACCT 3510, ECON 3610.

**Note:** For BBA students majoring in Finance with a concentration in Business Finance that wish to earn the Financial Analyst Certificate, FIR 3710, 3720, 4440, 4610, 4730; take 6 hours from FIR 4331, 4721, 4770, 4911; and take 3 hours from FIR 3310, 4011, 4310, 4320, 4331, 4340, 4350, 4550, 4710, 4720, 4721, 4730, 4770, 4870, 4911, ECON 4112, 4120, MIS 3775, ACCT 3510.

## Financial Planner Certificate

### Requirements

#### Students Wishing to Receive the Education Program Certificate Must Take:

- FIR 3410 - Financial Management
- FIR 3710 - Investments
- FIR 4011 - Retirement and Estate Planning
- FIR 4620 - Cases in Financial Planning
- FIR 4870 - Risk Management
- ACCT 3510 - Federal Income Tax I

### Note

The CFP® Certification Education Program Undergraduate Certificate (Financial Planner Certificate) allows students to petition to the CFP board regarding his or her completion of the CFP Board Educational Requirements and to sit for the Certified Financial Planner (CFP) exam. Students wishing to receive the Financial Planner Certificate must successfully pass: FIR 3410, FIR 3710, FIR 4011, FIR 4620, FIR 4870, and ACCT 3510 . The Financial Planner Certificate is issued by the Department of Finance, Insurance and Real Estate and is not posted on the student's transcript. The classes taken under this certificate program may also count as credit for any finance major.

Qualifications for either the Financial Analyst Certificate or the CFP® Certification Education Program Certificate (Financial Planner Certificate) may be met in either the FIR undergraduate programs or the FIR graduate programs.

**Note:** For BBA students majoring in Finance with a concentration in Banking and Financial Services that wish to earn the Financial Planner Certificate, in addition to FIR 3710, 3720, 4710, 4720; the student must complete FIR 4011, 4620, 4870, and ACCT 3510.

**Note:** For BBA students majoring in Finance with a concentration in Business Finance that wish to earn the Financial Planner Certificate, the student must complete FIR 3710, 3720, 4011, 4440, 4610, 4620, 4870, and ACCT 3510.

## Professional Real Estate Certificate

A Professional Real Estate Certificate is designed for students who desire careers in real estate or for the real estate professional seeking continuing education.

## Requirements

It Consists of the Six Required Courses (18 hours):

- FIR 3310 - Real Estate Principles
- FIR 3410 - Financial Management
- FIR 4310 - Real Estate Law
- FIR 4320 - Real Estate Finance
- FIR 4340 - Real Estate Appraisal
- FIR 4350 - Real Estate Investment

## Note

This program is independent of any University of Memphis degree program. No transfer credit will be accepted for these six courses. For non-business degree students, there are no prerequisites required. These classes are available on campus and online.

## Other Programs

### University General Education Program

The University General Education Program promotes a shared core learning experience for all undergraduate students at the University of Memphis and provides a framework upon which the college major can build. The major purpose of the Program is to provide students the opportunity to acquire tools, develop skills and awareness necessary for completing a college career and assuming the roles of a lifelong learner and an active, informed participant in contemporary society.

The University of Memphis General Education Program consists of 41 hours of coursework from a variety of disciplines. Students should consult their advisors on specific General Education Program courses that may be required for the major. The following are the General Education Program categories and their approved courses. Former course numbers appear in parentheses.

### Communication (9 hours)

All candidates for graduation at the University of Memphis are required to complete [ENGL 1010](#) and [ENGL 1020](#), or their equivalents, with a grade of "C" or better. Before enrolling in [ENGL 1010](#), a student must have either (1) an ACT English score of 18 or above, or (2) an SAT verbal score of 450 or above, or (3) a satisfactory completion of a placement test administered by the University of Memphis Testing Center. Those who do not meet the requirements above, must successfully complete a Developmental Combination ENGL 1010 section with a grade of "C" or better before proceeding to [ENGL 1020](#). [ENGL 1010](#) and [ENGL 1020](#) must be taken in sequence; no credit will be allowed for [ENGL 1020](#) until [ENGL 1010](#) has been completed successfully.

- ENGL 1010 - English Composition (1101)
- ENGL 1020 - English Comp/Analysis (1102)
- COMM 2381 - Oral Communication

## Mathematics (3 hours)

- MATH 1420 - Foundations of Mathematics
- MATH 1530 - Prob/Statistics/Non Calculus
- MATH 1710 - College Algebra
- MATH 1730 - Pre-Calculus
- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I

## Humanities / Fine Arts (9 hours)

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American

## Plus Two of the Following Courses

- ART 1030 - Intro to Art
- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- CLAS 2481 - Mythology
- COMM 1851 - Introduction to Film
- DANC 1151 - Introduction to Dance
- JDST 2850 - Religions of Abraham
- MUS 1030 - Introduction to Music
- MUS 1040 - Music in America
- PHIL 1101 - Fundamental Issues/Philosophy
- PHIL 1102 - Values and Modern World
- POLS 1101 - Intro Ancient Political Thgt
- POLS 1102 - Intro Modern Political Thought
- RLGN 1100 - Introduction to Religion
- THEA 1030 - Intro to Theatre
- UNIV 3580 - Hebrew and Greek Legacy
- UNIV 3581 - Faith/Reason/Imagination

## History (6 hours)\*

- ANTH 3282 - American Communities (American History)
- HIST 1110 - World Civilization I
- HIST 1120 - World Civilization II
- HIST 2010 - U S to 1877 (American History)
- HIST 2020 - The U S Since 1877 (American History)
- HIST 2030 - Tennessee History (American History)
- HIST 3863 - Social/Intellect History of U S (American History)
- HIST 3881 - African American History (American History)
- HIST 4851 - History of Women in America (American History)
- POLS 4212 - Const Law Civil Liberty (American History)

- POLS 4405 - Origin/Dev Amer Pol Thought (American History)
- SOCI 3422 - Racial/Ethnc Minorities (American History)

## Note:

\*Students who have not completed one year of American History in high school must complete 6 credit hours of American History OR 3 credit hours of American History plus 3 credit hours of Tennessee History in order to satisfy the History General Education requirement. American History courses are marked.

## Social/Behavioral Sciences (6 hours)

- ANTH 1100 - Biol Anth & Prehistory
- ANTH 1200 - Cultural Anthropology
- CDFS 2101 - Family/Global Perspective
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- ESCI 1301 - Survey of World Regions
- ESCI 1401 - Intro/Cultural Geography
- FIR 1220 - Personal Financial Management
- HLSC 2100 - Wellness Concepts Practice
- JRSM 1700 - Survey of Media
- POLS 1030 - American Government
- POLS 1301 - Intro to Comparative Politics
- POLS 1501 - International Relations
- PSYC 1030 - General Psychology
- PSYC 3510 - Deviance/Role History
- SOCI 1010 - Introduction to Sociology
- SOCI 2100 - Sociology of Globalization
- WMST 2100 - Intr/Women/Gender Study

## Natural Science (8 hours)

- BIOL 1010 - Biology of Cells
- and
- BIOL 1011 - Biology of Cells Lab
- BIOL 1020 - Biology of Organisms
- and
- BIOL 1021 - Biology of Organisms Lab
- BIOL 1110 - General Biology I
- and
- BIOL 1111 - General Biology I Lab
- BIOL 1120 - General Biology II

- and
- BIOL 1121 - General Biol II Lab
- BIOL 2010 - Anatomy/Physiology I
- and
- BIOL 2011 - Anat/Physiology I Lab
- BIOL 2020 - Anatomy/Physiology II
- and
- BIOL 2021 - Anat/Physiology II Lab
- CHEM 1010 - Chemistry of Materials
- and
- CHEM 1011 - Chemistry of Materials Lab
- CHEM 1020 - Chemistry of Life
- and
- CHEM 1021 - Chemistry of Life Lab
- CHEM 1110 - General Chemistry I
- and
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- and
- CHEM 1121 - General Chemistry II Lab
- ESCI 1010 - Weather and Climate
- ESCI 1020 - Landforms
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet
- ESCI 1050 - The Earth Through Time
- PHYS 1010 - Introductory Physics
- and
- PHYS 1001 - Introductory Physics Lab
- PHYS 1020 - Survey of Astronomy I
- and
- PHYS 1002 - Astronomy Laboratory
- PHYS 1301 - Astronomy II
- and
- PHYS 1031 - Astronomy II Laboratory
- PHYS 2110 - Sci/Engr Phys I/Calc
- and

- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc  
and
- PHYS 2121 - Sci/Engr Phys Lab II

## Grade Point Average

To receive a bachelor's degree from any of the colleges in the University, students must have an overall\* grade point average of at least 2.00.

\*Until Summer 2015, the overall GPA will reflect all college-level coursework-U of M and transfer. Beginning Summer 2015, the overall GPA will reflect all college-level work-U of M and any transfer coursework processed prior to Summer 2015; however, the overall GPA will reflect ONLY U OF M coursework for those students whose transfer credit is processed Summer 2015 and later.

NOTE: Beginning Summer 2015, a Tennessee Board of Regents' state-wide policy on transfer credit and GPA calculations takes effect. Beginning Summer 2015, transfer credit will be reflected in earned hours, but will no longer apply to the overall GPA (used to determine undergraduate graduation, graduation with distinction, and athletic eligibility) or to the overall combined GPA (used to determine academic standing, financial aid, and scholarship eligibility, except for HOPE):

1. For New Transfer students admitted Summer 2015 and later, no transfer credit will count in the overall or the overall combined GPA.
2. For Readmitted students readmitted Summer 2015 and later, no transfer credit taken since last attending the U of M will count in the overall or the overall combined GPA. Any transfer work previously processed will continue to be reflected in the GPAs.
3. For Continuing students, no transfer credit submitted to and received by the U of M Summer 2015 or later will count in the overall or the overall combined GPA. Any transfer work previously processed will continue to be reflected in the GPAs.

## Testing As A Prerequisite for Graduation

Any or all students may be required to take one or more tests designed to measure general education achievement and achievement in their major as a prerequisite to graduation, for the purpose of evaluation of academic programs. Unless otherwise provided for in any individual program, no minimum score or level of achievement is required for graduation. Participation in testing may be required for all students, for students in selected programs, and for students selected on a sample basis. Details concerning these regulations and the dates of the examinations will appear in the online class listings each semester.

## Apply for Graduation

All students are required to apply to graduate during the semester preceding the semester of graduation. The deadlines for the application to graduate are included on the Registrar's website. It is the responsibility of the student to insure that this deadline is met.

## University Faculty and Staff

## University Administration

View a complete list of Key University Administrators [here](#)

## Colleges and Departments

*The College Of Arts And Sciences*  
*The Fogelman College Of Business And Economics*  
*The College Of Communication And Fine Arts*  
*The College Of Education*  
*The Herff College Of Engineering*  
*The Loewenberg School Of Nursing*  
*University College*  
*Kemmons Wilson School of Hospitality and Resort Management*  
*Helen Hardin Honors Program*  
*University Libraries*

## Campus Directory

Department	Phone Number
<a href="#">Academic Counseling Center</a>	901.678.2062
<a href="#">Admissions</a>	901.678.2111
<a href="#">Bursar's Office</a>	901.678.5579
<a href="#">Center for Athletics Academic Services</a>	901.678.2714
<a href="#">Counseling, Tutoring and Testing</a>	901.678.2067
<a href="#">Dean of Students</a>	901.678.2187

## The College of Arts and Sciences Faculty and Staff

THOMAS J. NENON, Ph.D., Dean  
 ABBY PARRILL-BAKER, Ph.D., Associate Dean  
 ROGER KREUZ, Ph.D., Associate Dean  
 DEBORAH TOLLEFSEN, Ph.D., Associate Dean  
 SUSAN FITZGERALD, M.A., Director of Administration  
 PATSY KRECH, M.Ed., Director of Undergraduate Advising  
 JESSICA CLIFFORD KELSO, M.A., Pre-Professional

## Aerospace Studies

MARC N. LONDON, Lt. Col., USAF,  
 Professor of Aerospace Studies

BYRON C. FOSTER (2013), Major, United States Air Force, Assistant Professor: B.S., 2002, Wayland Baptist University  
 MARC N. LONDON (2013), Lieutenant Colonel, United State Air Force, Detachment Commander, Chair: B.S., 1994, United States Air Force Academy; M.B.A., 1997, University of Phoenix  
 NEWMAN C. ROBERTSON (2013), Major, United States Air Force, Assistant Professor: B.S., 1993, Southern University of New Orleans; M.A.T., 1997, Xavier University

## Anthropology

KERI BRONDO, Ph.D. Chair

CLARE BOULANGER (1991), Instructor: B.A., 1980, SUNY Plattsburgh; M.A., 1984, University of Minnesota; Ph.D., 1991, University of Minnesota

KERI BRONDO (2007), Associate Professor: B.A., 1997, University of Delaware; M.A., 1999, Iowa State University; Ph.D., 2006, Michigan State University

MICHAEL R. DUKE (2011), Associate Professor: B.A., 1984, Ph.D., 1996, University of Texas at Austin RUTHBETH D. FINERMAN (1985), Professor: B.A., 1977, M. A., 1979, Ph.D., 1985, University of California at Los Angeles

KATHRYN HICKS (2008), Associate Professor: B.A., University of Calgary; Ph.D., 2008, Northwestern University

KATHERINE LAMBERT-PENNINGTON (2007), Associate Professor, Director, School of Urban Affairs and Public Policy: B.A., 1994, University of Miami; M.A., 1997 University of Tennessee; Ph.D., 2005, Duke University

TED MACLIN (2015), Instructor: B.S., 1991, University of Tennessee; M.S., 1994, University of Tennessee; Ph.D., 2015, University of Georgia

ROSS SACKETT (2004), Instructor: Ph.D., 1996, University of California, Los Angeles

MICAH M. TRAPP (2013), Assistant Professor: B.A., 2002, Denison University; M.A., 2007, Ph.D., 2011, American University

## Biological Sciences

MELVIN L. BECK, Ph.D., Interim Chair

AMY ABELL (2013), Assistant Professor: B.S., 1990, University of California at Davis; Ph.D., 1998, University of Iowa

MELVIN L. BECK (1974), Professor, Interim Chair: B.S., 1967, Arkansas Tech. College; Ph.D., 1974, University of Arkansas

EMERSON KEITH BOWERS (2016), Assistant Professor: B.A., 2008, Central College (Iowa); M.S., 2011, Ph.D., 2014, Illinois State University

FORREST BREM (2012), Lecturer, Lambuth: B.S., 2013, M.S., 2006, Southern Illinois University; Ph.D., 2012 The University of Memphis

MARTHA P. BROWN (1966), Assistant Professor: B.S., 1963, M.S., 1966, Memphis State University; Ed.D., 2006, University of Memphis

SHAWN P. BROWN (2017), Assistant Professor: B.S., 2009, University of Oregon; Ph.D., 2014, Kansas State University.

JUDITH A. COLE (2003), Associate Professor: B.A., 1977, University of Rhode Island; Ph.D., 1985, University of Connecticut

REBECCA COOK (2012), Sr. Lecturer, Lambuth: B.S., 1980, Hendrix College; M.S. 1984, Rice University; Ph.D., 1993, University of Tennessee, Knoxville

BERNIE DAIGLE (2015), Assistant Professor: B.S., 2002, Cornell University; Ph.D., 2010, Stanford University

LEWIS B. COONS (1976), Professor: B.A., 1964, M.S., 1966, Utah State University; Ph.D., 1970, North Carolina State University

MICHAEL H. FERKIN (1995), Professor: B.S., 1977, M.S., 1982, SUNY, Brockport; Ph.D., 1988, Boston University

DAVID A. FREEMAN (2002), Associate Professor: B.A., 1991, Kent State University; Ph.D., 1996, University of Connecticut

RAMIN HOMAYOUNI (2006), Professor, Director, Bioinformatics Program: B.S., 1989, Ph.D., 1996 University of Houston

MICHAEL L. KENNEDY (1974), Professor: B.S., 1966, M.S., 1968, Memphis State University; Ph.D., 1975, University of Oklahoma

CHARLES KUBICEK (2015), Lecturer, Lambuth: B.S., 2003, Georgia Institute of Technology; Ph.D., 2009, University of Oregon



CHARLES A. LESSMAN (1988), Professor: B.A., 1970, M.S., 1975, Ph.D., 1980, University of Minnesota ANDREW LIU (2008), Associate Professor: B.A., 1992, Shandong Normal University; M.S., 1995, Chinese Academy of Sciences; Ph.D., 2003, University of Michigan

CARLOS E. LOPEZ-ESTRANO (2003), Associate Professor: B.S., 1990, Central University of Venezuela; Ph.D., 1996, Autonomous University of Madrid, Spain

JENNIFER R. MANDEL (2014), Assistant Professor: B.A., 2003; Biology, Carson Newman University; Ph.D., 2008, Vanderbilt University

DUANE McKENNA (2010), Associate Professor: B.A., 1998, Western Michigan University; M.S., 2000, University of Illinois, Urbana-Champaign; Ph.D., 2006, Harvard University MATTHEW J. PARRIS (2000), Associate Professor: B.A., 1994, St. John's University; Ph.D., 1999, University of Missouri, Columbia

JAIME SABLE (2016), Assistant Professor: B.A., 2000, Simpson College; M.S., 2008, University of Iowa; Ph.D. 2016, The University of Nebraska

STEVEN D. SCHWARTZBACH (2001), Professor: B.A., 1969, State University of New York, Buffalo; Ph.D., 1975, Brandeis University

ALKA SHARMA (2014), Instructor: B.S., 1995, M.S., 1997, Government Autonomous Science College; Ph.D. 2010, University of Arkansas at Little Rock

OMAR SKALLI (2010), Associate Professor: Director of Integrated Microscopy Center: M.S., 1982, Ph.D., 1987, University of Geneva

ANNA BESS SORIN (2003), Instructor, Director, Biology Advising & Resource Center: B.A., 1992, Union College; M.S., 1995, Ph.D., 2002, University of Michigan

THOMAS R. SUTTER (1999), Professor, Chair of Excellence in Functional Genomics: B.S., 1980, St. Bonaventure University; Ph.D., 1988, University of Cincinnati College of Medicine

BARBARA J. TALLER (1983), Associate Professor: B.S., 1971, Baldwin-Wallace College; Ph.D., 1978, University of Wisconsin-Madison

TIT-YEE WONG (1985), Professor: B.S., 1974, M.S., 1976, Murray State University; Ph.D., 1981, University of Houston

## Chemistry

GARY EMMERT, Ph.D., Chair

WILLIAM A. ALEXANDER (2012), Assistant Professor: BS, 2005, Marshall University; PhD, 2009, Virginia Tech

DANIEL BAKER (2006), Associate Professor: B.S., 1992, Central Michigan University; Ph.D., 1998, University of Arizona

TIMOTHY BREWSTER (2015), Assistant Professor: BS, 2008, College of William and Mary; PhD, 2012, Yale University

PETER K. BRIDSON (1980), Associate Professor: B.S., 1975, Ph.D., 1978, University of London

THEODORE J. BURKEY (1985), Professor: B.S. 1976, Harvey Mudd College; M.S., 1978, Ph.D., 1982, University of California, San Diego

NATHAN DEYONKER (2016), Assistant Professor: BS, 2001, University of Michigan; PhD, 2005, University of Georgia

GARY L. EMMERT (2002), Professor, Chair: B.S., 1988, M.S., 1992, Tennessee Technological University; Ph.D., 1999, Miami University (Ohio)

TOMOKO FUJIWARA (2007), Associate Professor: B.S., 1997, M.Eng., 1999, Ph.D., 2001 Kyoto Institute of Technology

XIAOHUA HUANG (2010), Associate Professor: B.S., 1996, Jilin University; M.S., 2001, Peking University; Ph.D., 2006, Georgia Institute of Technology

JERMAINE JOHNSON (2015), Lecturer: BS, 2008, Morehouse College; PhD, 2015, University of Memphis

HENRY A. KURTZ (1983), Professor: B.S., 1972, Georgia Institute of Technology; Ph.D., 1977, University of Florida

ABBY L. PARRILL (1998), Professor, Associate Dean: B.S., 1992, Central Michigan University; Ph.D., 1996, University of Arizona

PAUL S. SIMONE (2010), Associate Professor: B.S., 2002, M.S., 2006, Ph.D., 2008, University of Memphis;  
 YONGMEI WANG (2003), Professor: B.S., 1985, University of Science and Technology, Hefei, China; Ph.D., 1990, University of Notre Dame  
 XUAN ZHAO (2008), Associate Professor: B.S., 1993, Nankai University; M.S., 1996, Peking University; Ph.D., 2002, Texas A&M University

## Computer Science

LAN WANG (2004), Ph.D., Chair

VINH THUY PHAN, Ph.D., Associate Chair

NASIR ALI (2016), Research Assistant Professor: MS: 2008, Lahore University, Ph.D., 2012, École Polytechnique de Montréal

WILLIAM B. BAGGETT (2014), Visiting Assistant Professor: B.S., 1989,

M.S., 1994, PhD, 1998, The University of Memphis

DIPANKAR DASGUPTA (1997), Professor: B.E., 1981, Assam Engineering College, Guwahati, India; M. Tech, 1987, Indian Institute of Technology, Kharagpur, India; Ph.D., 1993, University of Glasgow, UK

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EDWIN G. FRANK (1994), Associate Professor: B.A., 1976, Memphis State University; M.L.S., 1993, University of Tennessee, M.A., 1999, University of Memphis

MARY K. FREILICH (1985), Assistant Professor: B.A., 1970, M.A., 1971, Purdue University; M.L.S., 1982, State University of New York-Albany

ANNELLE R. HUGGINS (1981), Associate Professor: B.S., 1969, Central State University; M.L.S., 1970, Vanderbilt University; M.Ed., 1975, Texas A&M University

ROBERT T. IVEY (1987), Associate Professor: A.B., 1966, M.A., 1968, Ph.D., 1973, M.S.L.S., 1976, University of North Carolina-Chapel Hill

JOYCE A. McKIBBEN (1979), Assistant Professor: B.A., 1971, Eckerd College; M.A.L.S., 1972, University of Kentucky; M.A. 1979, University of Florida

ANNA B. NEAL (1980), Assistant Professor: B.A., 1973, University of Kentucky; M.L.S., 1978, Vanderbilt University; M.M., 1986, Memphis State University

ELIZABETH H. PARK (1983), Professor: A.B., 1966, Stanford University; M.L.S., 1972, State University of New York at Buffalo; M.S. 1989, Memphis State University

MARGARET ROBINSON (1994), Associate Professor: B.A., 1983, Centenary College; M.L.S., 1992, Indiana University

PERVEEN K. RUSTOMFRAM (1995), Associate Professor: B.S.W., 1979, Bombay University; M.A., 1984, University of Hyderabad; M.L.S., 1987, University of Tennessee

## Services for Students

The University of Memphis has multiple services that they provide for students, please visit the sites below learn more.

## New Student Orientation, Advising and Registration

The academic year consists of two semesters and a summer term. The fall semester begins in late August or early September and ends in December; the spring semester begins in January and ends in May; and the summer session is held between the end of the spring semester and the beginning of the fall semester.

The New Student Orientation program, which is required for all first time degree-seeking students, is held during the summer for new freshmen and transfer students. Orientation is designed to acquaint new students with registration procedures, University regulations, college life, and student activities and services.

During Orientation, students meet with an academic advisor, plan their course schedule, and register for classes. **Even though advisors help students select the appropriate courses, this does not relieve students of their responsibility to study the Undergraduate Catalog and fulfill all of the requirements for their specific degree program.** (Note: Before students attain senior standing, they should consult with the college level advisor or graduation analyst of the college regarding fulfillment of requirements for their degree.)

Colleges and universities in the Tennessee Board of Regents system place students according to their ACT subscores in English, Math, and Reading, provided that those scores are less than 3 years old. At the University of Memphis:

- Students with ACT reading subscores below 19 are required to enroll in ACAD 1100.
- Students with ACT English subscores below 18 are required to enroll in prescribed English courses.

If students feel they have been misplaced by their ACT subscores in English and reading, they may take the COMPASS test to attempt to place in a higher level course. All students, regardless of their ACT math subscore, are required to take the [ALEKS placement exam](#) for math.

Students without ACT scores are required to take a placement test, the [COMPASS](#) assessment and placement test, to determine the best course placement for them. The COMPASS test provides students and their advisors with important information about educational preparation and is a good beginning toward the achievement of academic goals.

Credit is not allowed in any course for which students are not officially registered. Students must withdraw from all courses prior to the first day of classes for the session to avoid financial responsibility for fees.

## Financial Aid

### Student Aid

The Student Financial Aid Office administers federal, state, and institutional aid programs in order to provide financial aid to qualified students. The programs of financial aid include Scholarships, Grants, Loans, and Student Employment. With the exception of grants, which are always need-based, each of these financial aid programs can be either need-based or non-need based. All need-based programs are based on an assessment of an Expected Family Contribution using family income and asset information provided by the completion of the Free Application for Federal Student Aid ([FAFSA](#)) by the student and/or parent. Students applying for financial aid programs that require the FAFSA must be U.S. Citizens or permanent residents, must be admitted as degree-seeking students, and if seeking a second bachelor's degree, have declared a major.

Please access the Financial Aid Office website for current information at: <http://www.memphis.edu/financialaid>.

### Aid Programs

#### Grants

The Financial Aid Office offers students a financial aid package once the FAFSA results are received. Students can view their financial aid package on their [myMemphis](#) account. It may be a possible combination of grants, loans, scholarships, and employment to meet as much of the student's need as possible. Enrolled hours, residency classification, cumulative grade point average, and other financial assistance already received will affect the amount and type of financial aid students can receive to meet their financial need. Click [here](#) for more information about the different aid programs.

#### Student Employment

The University of Memphis offers two programs of on-campus employment. Federal Work-Study is a need-based financial aid program. The regular student employment program is not need-based and is available to any student enrolled at least half-time. Job openings for both programs are posted in the [Student Employment Office website](#).

#### Scholarships

#### Academic Scholarship Programs

The University of Memphis offers several hundred scholarships each academic year in varying amounts depending on the particular guidelines for the scholarship and the academic credentials of the student.

For more information on UNDERGRADUATE scholarships, please visit [www.memphis.edu/scholarships](http://www.memphis.edu/scholarships), or contact the Undergraduate Scholarship Office directly at (901) 678-3213.

For more information on GRADUATE scholarships, contact the GRADUATE SCHOOL at 217 Administration Building, Memphis, TN 38152, or call (901) 678-4212.

For more information regarding LAW scholarships, contact 203 Cecil C. Humphreys School of Law, Memphis, TN 38152 or call (901) 678-5403.

## University Freshman Scholarships

The University of Memphis awards hundreds of academic scholarships each year to entering freshmen. All scholarships are awarded for the academic year (Fall and Spring semesters only). Scholarships are awarded based on information submitted on the University of Memphis admissions application. A separate scholarship application is not required unless noted. The priority deadline for admission to the University of Memphis for scholarship consideration is March 1. All University of Memphis scholarship program awards are based on a combination of ACT/SAT scores and cumulative high school grade point average (7th semester). These scholarships are four year, renewable scholarships requiring full time enrollment. Early application to the University of Memphis is strongly encouraged as scholarship awards are limited. For a detailed list of available scholarships, please [CLICK HERE](#).

## Departmental Scholarships

[College of Arts and Sciences](#)

[Fogelman College of Business and Economics](#)

[College of Communications and Fine Arts](#)

[College of Education, Health and Human Sciences](#)

[Herff College of Engineering](#)

[Loewenberg School of Nursing](#)

[University College](#)

## ROTC Scholarships

[Army](#)

[Navy](#)

[Air Force](#)

## Private Scholarships

Each year, the University of Memphis awards a number of private scholarships thanks to the generosity of faculty, staff, alumni, and other supporters of academically exemplary and financially needy students at the University of Memphis. The amounts vary with each scholarship, and scholarships are awarded on a competitive basis. For more information concerning Private Scholarships, please [CLICK HERE](#).

## Outside Scholarships

Are you looking for a scholarship? We can help! Students and their families are encouraged to search the web to explore the exciting possibilities of finding a scholarship especially for you. Go ahead, [CLICK HERE](#) to get started!

## Important Notice

The Federal Tax Reform Act of 1986 significantly changed the tax status of scholarships, fellowships, and grants you receive from the university. Prior to the Act, scholarships, fellowships, and grants were generally not subject to income tax. Since then, scholarship, fellowship, and grant amounts exceeding tuition, fees, and course-related books, supplies, and equipment have become taxable.

## Registration and Student Records

All continuing students are expected to register during November for the following Spring semester and in April for the following Summer OR Fall. Students are responsible for becoming familiar with the deadlines, rules, and regulations related to registration.

Student Records The Office of the Registrar provides grade reporting and transcript services. Current semester grades may be obtained on Student Self Service at <http://my.memphis.edu>.

The University of Memphis requires written authorization from the student to release transcripts. Transcripts may be requested in person, room 003 Wilder Tower, by mail, or by FAX (901) 678-3249. Include the following information with your request: complete name, former names, Banner ID Number (U#) or last four digits of Social Security Number, birth date, current address, first and last years of attendance, address(es) where transcript is to be mailed, number of copies to each address. Sign and date your request. There is no fee for the first twenty transcripts; however, a transcript will not be released if you have not satisfied all obligations to the University. If you have any additional questions, please contact Transcripts Office at (901) 678-3927.

The University is required by state law to withhold grade reports and transcripts from students who have outstanding financial obligations to the University.

**Student and Faculty Services** Student Information Services provides services to students related to their current term enrollment and their personal biographic/demographic data. These services include: schedule adjustments (drop/add/withdrawal), name changes, address changes, etc. This unit is located in the Registrar's Office, 003 Wilder Tower.

**Veterans Educational Benefits & Certification**, located in the Office of the Registrar, Room 003, Wilder Tower, provides assistance for eligible national guard/reserves, veterans and/or dependents who enroll at the University of Memphis and request to use their VA educational benefits. Those who will be using VA educational benefits while enrolled at the University of Memphis should contact the office and be prepared to furnish the following documentation:

1. A copy of the Certificate Of Release Or Discharge From Active Duty, (DD-214 Member-4) or other armed forces separation papers
2. Copy of Delayed Enlistment Contract
3. Copy of marriage license and children's birth certificates
4. Copy of final divorce decree if either veteran or spouse was previously married
5. VA File Number
6. Notice of Basic Eligibility (NOBE)
7. Kicker Contract

**Enrollment Status:** For VA educational benefits during the regular full 15 week semesters (Fall and Spring), 12 semester hours constitute a full-time load for undergraduate and law students. For graduate students, 9 semester hours constitute full time. Training time for summer sessions and other non-standard terms for undergraduate, law, and graduate students is determined by the number of semester hours enrolled in each part of term.

The Veterans Administration places restrictions on those who receive VA educational benefits. Some restrictions include: (1) regular class attendance, (2) satisfactory academic progress, and (3) adherence to a specific degree plan.

**Degree Plan:** Only courses required for the degree and major may be certified to the VA. Undergraduate students now have access to UMdegree, a web-based tool that helps students and advisors monitor progress toward meeting degree requirements. Courses that are listed as Fallthrough on UMdegree may not be certified for VA Educational Benefits without further investigation. Fallthrough generally indicates excessive elective course(s) that are not included in the 120 hours needed to graduate. Students who enroll in courses that are listed as Fallthrough on UMdegree should consult with their academic advisor and request that UMdegree be updated if the course(s) is not correctly listed. This verification is necessary before the course(s) may be included in the number of hours certified to the VA.

**Repeat Courses:** VA will not pay for repeat courses if the grade previously earned is accepted by the University of Memphis and will fulfill graduation requirements (even if the course was taken at another institution with or without use of the G.I. Bill).

Although advisors are provided for veterans, this assistance does not relieve students of the responsibility for fulfilling all VA and University requirements.

**Certification:** To request certification for VA educational benefits, students must submit the Veterans Request for Certification form to Veterans Educational Benefits & Certification. Certifications are not automatically processed, students must submit this form each semester.

**VA Educational Tuition Deferment Request:** Service members, veterans, and dependents of veterans, who are eligible for and receiving VA educational benefits, may request to have their tuition and fees deferred until the end of the semester by contacting Veterans Educational Benefits & Certification.

**Early Registration for Veterans:** Public Chapter No. 788, 2012 Acts of the Tennessee General Assembly. This new state law provides that military veterans who entered and served honorably in the United States armed forces on active duty, active national guard, or active reserves must be allowed to register for classes at TBR and UT institutions prior to the general student population. The law



applies to a military veteran who is currently a resident of Tennessee or whose home of record for military purposes is Tennessee, and who is a student at a public institution of higher education.

Any veteran not currently receiving Veterans educational benefits who wishes to be identified as a veteran in order to receive priority registration should provide a copy of the DD-214 (or other appropriate military documents) to Veterans Educational Benefits & Certification.

## Student Development

The University of Memphis knows that academic and career success are inextricably tied to the student's welfare and effectiveness in intellectual, personal, social, emotional, physical, spiritual, financial, and family arenas. Students will find numerous programs and services within Student Development to acquire and enhance a range of skills vital to their success. Some opportunities include wellness education and health care, personal counseling and stress management training, career exploration and development, internship and job search support, tutoring and academic skills development, accessibility services, leadership skills coaching, interpersonal effectiveness training, and referral services. Student Development believes in partnerships with departments across the campus to address the comprehensive needs of students.

## Career Counseling

Career Counseling, 211 Wilder Tower, affords students an opportunity to explore self, career options, obtain information relating academic majors to career choices, evaluate employment outlook information, and develop realistic career goals. Through counseling, computer assistance and testing, each person is given the opportunity to make a well-considered career choice.

## Career Services

Career Services, 400 Wilder Tower, focuses on "Educating, Engaging, and Empowering the University of Memphis community. Career Services works with students during all phases of the career development process. Services include assessments, career planning, resume critiquing, mock interviewing, on-campus interviewing, and internship and job search preparation. Career Services offers numerous resources that assists students with their professional development and career needs. Individual advising is available to students needing assistance with resume writing, cover letters, and job and internship searches. Class and student organization presentations are offered throughout the fall and spring semesters on career-related topics such as Resumés, Interviews, Dress for Success, Negotiation Job/Salary Offers, and Proper Etiquette.

All services are offered free of charge. For purposes of interviewing, registration for services through eRecruiting is required and it is recommended that seniors and graduate students register three semesters prior to graduation. Career Services is open Monday through Friday 8:00 a.m. - 4:30 p.m.

## Psychological Counseling

The Psychological Counseling, room 214 Wilder Tower, provides students with the opportunity to discuss and explore any concerns and feelings that are of importance to them. Problems in relationships, feelings of loneliness or inadequacy, family or marriage difficulties, depression, the inability to concentrate or study, or simply "feeling the need to talk things out" are all examples of concerns that are dealt with through psychological counseling. The staff is professionally trained and experienced in working with a wide variety of student concerns through individual and group counseling, testing, programs and workshops, and referral to additional service centers on and off campus. The counselors subscribe to the confidentiality policy in the ethics and guidelines established by the American Psychological Association.

## Disability Resources for Students

Disability Resources for Students, 110 Wilder Tower, provides information and support services that enable students with disabilities to take full advantage of the educational opportunities at the University of Memphis. Specific services are determined individually and are based on functional limitations caused by disability. Services include pre-enrollment planning; specialized orientation; early registration; adapted campus housing; academic aids such as readers, note takers, and interpreters; test accommodations; alternate

format text and print materials; assistive computer technology and other special aids; assistance arranging classroom accommodations; supportive guidance and counseling; and liaison with state rehabilitation agencies. Some services require advance notice to arrange.

All persons who have a disability are encouraged to register with Disability Resources for Students and to provide this office with medical documentation of the functional limitations related to their disability. This registration entitles qualified students with disabilities to the legal rights provided under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. Given adequate time, experienced staff will provide assistance in evaluating individual needs and in developing a plan for appropriate disability services. For more information, please contact Disability Resources for Students, 901/678-2880.

## Student Health Services

Student Health Services, 3770 DeSoto Avenue, is open Monday, Wednesday, Thursday, and Friday, 8:00a.m.- 4:30p.m. and Tuesday 9:00a.m. - 4:30pm. The facility is closed evenings, weekends, holidays, and announced University Holidays. Early evening hours may be available Monday through Thursday, 4:30-6:00 during the Fall and Spring semesters.

Medical services are available to students, faculty, and staff members on a walk-in basis. Each visit to Student Health Services requires the individual to present a valid University of Memphis identification card before treatment is provided.

Student Health Services is staffed with a physician, nurse practitioners, nurses, laboratory and X-ray technologist, health educator, and various administrative support personnel. Student Health Services' major emphasis is on the diagnosis and treatment of short-term, acute medical illnesses on an outpatient basis. One's family doctor should continue to be the primary source for medical care. A Family Planning Clinic is provided by the Shelby County Public Health Department at Student Health Services on Mondays, Wednesdays, and Fridays. The Family Planning Clinic schedules appointments and provides birth control information, devices, medications, and examinations (by appointment).

Health Center visits, along with in-house laboratory analyses ordered by the provider, are free of charge for students. The patient will be asked to pay for laboratory tests sent to an outside laboratory for analyses. Payment may be made by cash, check, MasterCard, Visa, Discover, American Express credit card, or Tiger Fund\$. When in-depth evaluation or treatment is needed the patient is referred off-campus, and the patient is responsible for all charges incurred at that facility. Family Planning Clinic charges fees are on a sliding fee scale and payment is made directly to the Family Planning Clinic.

The Tennessee Board of Regents has authorized a private insurance company to provide health insurance for students. Students may pick up a brochure about the insurance from Student Health Services. The student pays the insurance company directly for the policy.

## Student Success Program

Student Success Program, 405 Mitchell Hall, includes two U.S. Department of Education-funded TRiO programs and a Suder Foundation-funded First Scholars that provide free academic, career, financial, personal, social, and technological assistance and support to eligible college students. The program helps eligible participants adjust to college life, achieve academic success, graduate, and move on to become contributing members of society. Students who are eligible to participate in the TRiO Excel program are first generation college students, students with disabilities, and/or students who are Pell Grant eligible. TRiO STEM participation requires the same eligibility, plus a declared major in a science, technology, engineering, or mathematics field. First generation students entering the university as full-time, residential freshmen are eligible for the First Scholars Program, which includes a \$5,000 scholarship renewable up to four years.

## Tutoring @ ESP (Educational Support Program)

The Educational Support Program (ESP), 217 Mitchell Hall, provides free tutoring on a walk-in basis through 10 Learning Centers: Academic Enhancement (General Education courses, study, reading, test-taking strategies), English (writing across the curriculum), Mathematics (math for all courses), Business (all courses in those majors), Science (all science courses), Millington Satellite Campus (Spanish, Math, Writing, Criminal Justice), Carrier Center Satellite Campus (Math, Spanish, Writing, Anthropology, History), Richardson Towers (Science, Math, Writing, Philosophy, Economics, Engineering, Spanish), Living Learning Complex (Science, Math, Writing, Psychology, Spanish), and Park Avenue (Science and Math). ESP also offers Supplemental Instruction for historically difficult classes. Students must be enrolled in the course at U of M for which the tutoring is requested. Tutors are available for both individual and group study sessions. Seminars are regularly presented and can be scheduled for classes and organizations.

## Student Life

Student Life offers students a wide variety of services and learning experiences outside the formal classroom setting. Included in the area of Student Life are the departments of Adult and Commuter Student Services, Campus Recreation and Intramural Services, Multicultural Affairs, Office of Student Conduct, and Student Leadership and Involvement. The Office of Student Life also serves as liaison with Religious Life staff and as advisor to the Student Government Association. Information may be obtained from the Office of the Dean of Students, room 359 University Center.

**Adult and Commuter Student Services**, 243 University Center, offers an abundance of amenities to help the adult and non-traditional veteran or commuter student become better acquainted with student life. The office provides a computer lab, a quiet study area, a lounge space with free coffee and hot chocolate, transportation and off-campus housing information, monthly seminars, and the Adult and Commuter Connection e-newsletter.

The Adult Student Association, is geared toward non-traditional college students, usually age 25 and older, with an informal way to receive support during their educational experience, and to express concern about any particular issues that may arise.

**Campus Recreation and Intramural Services** contributes to the health, physical, psychological and social well-being of the university community by serving students, faculty, staff, alumni and friends of the University of Memphis. Participation in sports and other leisure activities contributes to the total educational process through the development of skill essential for everyday life.

The Student Recreational and Fitness Center is the primary venue for recreation at the University. At this location CRIS provides pools, weight and cardio area, equipment purchase and rental, outdoor and indoor gyms, field space, tennis and sand volleyball courts, exercise classes, fitness programs, personal training, massage therapy, swim lessons, clinics, informal recreation, special events, and competitive intramural and club sports focusing on our increasing leisure time. The student oriented CRIS staff offer a wide variety of programs and give personal attention to the needs of all individual participants.

**Child Development Center** provides childcare services are available for the University of Memphis students. Space is available on a first come/first serve basis. The center accepts children between the ages of 30 months and 12 years.

During the fall and spring semesters, the center's hours are Monday through Thursday, 7:30 a.m. to 9:00 p.m., Friday, 7:30 a.m. to 4:30 p.m. The summer semester operating hours are Monday through Thursday from 7:30 a.m. to 9:00 p.m. and Friday from 6:30 a.m. to 4:30 p.m. Hours of operation may vary and be based on enrollment. For additional information, come to the Child Development Center located at 3875 Tiger Paw South (Northeast of the Central Avenue Parking Lot-adjacent to the University town-home community).

**Dining Services** Tiger Dining offers a variety of dining facilities, vending areas, and coffee bars in a variety of locations on campus, including two all-you-care-to-eat options, Fresh Food Company and Just For You, the Union Food Court that includes a Burger King Whopper Bar, Taco Bell, Topio's Pizza, and several other national brands including, Einstein's Bagels, Chick-fil-a, and Dunkin' Donuts. Tiger Dining also offers a variety of meal plans for students living on and off campus.

**Multicultural Affairs.** The Office of Multicultural Affairs, 223 University Center, provides a welcoming and supportive environment that advises students of color with regard to their academic, social, cultural, and financial affairs. With a caring, professional staff, the office helps students adjust to learning, living, and working in a large university setting.

Students also utilize the office as a source of information about opportunities for leadership development, conferences, internships, scholarships, professional schools, and community involvement.

The office is home to several student organizations, including the Black Student Association, Black Scholars Unlimited, Empowered Men of Color (EMOC), the Hispanic Student Association, and the University of Memphis chapter of the National Association for the Advancement of Colored People (NAACP). All U of M students are encouraged to join these organizations, and can visit the office in 223 University Center.

Office of Student Conduct, 359 University Center, is responsible for the administration of the University of Memphis Code of Student Rights and Responsibilities, which outlines the rules and regulations necessary to govern the behavior of students and student organization.

**Student Leadership and Involvement**, 211 University Center, provides programs and opportunities through which students may become meaningfully involved in campus life. Student Leadership and Involvement includes Greek Affairs, Student Activities Council, Registered Student Organizations, Leadership Programs, and Community Service.

**Greek Life:** Fifteen international fraternities and eleven international sororities are active on the University of Memphis campus. The University strives to maintain a strong Greek community through coordination of Greek activities provided by the Office of Greek Affairs in areas of social service, philanthropy, scholarship, spiritual life, social development, and sense of leadership.

**Fraternities:** Alpha Phi Alpha, Alpha Tau Omega, Iota Phi Theta, Kappa Alpha Order, Kappa Alpha Psi, Lambda Chi Alpha, Omega Psi Phi, Phi Beta Sigma, Phi Gamma Delta, Pi Kappa Alpha, Pi Kappa Phi, Sigma Alpha Epsilon, Sigma Chi, and Sigma Phi Epsilon, and Zeta Beta Tau.

**Sororities:** Alpha Delta Pi, Alpha Gamma Delta, Alpha Kappa Alpha, Delta Gamma, Delta Sigma Theta, Kappa Delta, Interested Ladies of Lambda Theta Alpha, Phi Mu, Pi Beta Phi, Sigma Gamma Rho, and Zeta Phi Beta.

**Student Activities Council** is the principal programming body for the University community. It is composed primarily of student volunteers for the purpose of providing social, cultural, recreational and educational activities, and events that appeal to a wide variety of interests. Music, comedy, films, lectures and cultural events are just a few of the many activities planned and facilitated by the Student Activities Council (SAC).

**Student Organizations** Over 200 student organizations are registered with the University. Student organizations represent a broad range of endeavors including academic, social, spiritual, cultural, service, recreational, and special interest. For information, contact the Office of Student Activities, room 425, University Center.

**Service (Volunteerism and Service-Learning)** The Student Leadership and Involvement Office promotes and supports service efforts by the University of Memphis students and works with local community agencies to engage students in a variety of meaningful service activities. The office serves as a resource center for community service programming in order to help students expand their understanding of social/community issues, develop leadership skills, and work on solutions to real life problems. For more information on these initiatives, contact the Office of Students Activities, room 425, University Center.

**Religious Affairs** is comprised of several religious organizations that provide activities and communities that focus on the religious or spiritual development of University students. Many of these organizations have ministry facilities close to campus or utilize University facilities for their programs. Organized religious groups include: Baptist Collegiate Ministry, Campus Outreach, Catholic Campus Ministry, Christian Student Center (Soma - Church of Christ), Hillel of Memphis (Jewish Student Union), Presbyterian Place, RUF (Reformed University Fellowship), and Wesley Foundation (United Methodist). There are also numerous religious registered student organizations on campus.

**Student Judicial and Ethical Programs** The Office of Student Judicial and Ethical Programs is responsible for the administration and coordination of student disciplinary actions involving both social and academic misconduct under the Code of Student Rights and Responsibilities. The office is also a resource for the interpretation of policies that affect students and for programs on ethics and academic integrity. The Office of Student Judicial and Ethical Programs is located in room 105, University Center.

**Student Government** The Student Government Association (SGA) of the University of Memphis is a unique organization of students who work together and are committed to improving the University community. SGA represents all students, graduate and undergraduate, and strives to bring each student's interest to the forefront.

The University of Memphis SGA consists of the Executive members, the Senate, the Student Court, and the Freshmen Council. The SGA office is located in room 411, University Center.

**University Center and the Michael D. Rose Theatre** are the center of community life on campus. Together they host many of the meetings, programs, and events that make up campus life. The complex features two theatres, a ballroom, and numerous other meeting and event spaces. In addition, the UC is home to nearly two dozen student organizations, as well as multiple offices that support student engagement and involvement. Services available in the UC include: a 24-hour student computer lab; copy center, information desk, campus scheduling, campus postal station (and mailboxes), the Union Food Court, Tigers Restaurant, Tiger Catering, and The Union Market/Dunkin Donuts.

## Other Activities

## Other Activities and Services

**Academic Counseling Center** All freshmen, transfer, and readmitted students who have not decided upon an academic major are assigned to the Academic Counseling Center (ACC). The purpose of the ACC is to provide academic counseling that will prepare students to choose a major and then be enrolled into one of Uof M's degree granting colleges. The counselors are available by appointment to discuss the many academic programs offered and to help the students explore these possibilities as they relate to their personal and educational goals.

**Athletic Academic Services** The Center for Athletic Academic Services is located in Wilder Tower, room 600, and provides counseling, tutoring, scheduling assistance, career planning and special services for all the University of Memphis student athletes. The center also handles NCAA interpretations and the academic eligibility requirements of student athletes.

**Intensive English for Internationals (ESL)** The intensive English language program has been developed to meet the needs of internationals in Memphis and the surrounding area, and from abroad. English language instruction for non-native speakers of English is offered at five levels of instruction. For students coming from abroad, the program follows the University calendar for the fall and spring semesters. An eight-week session is offered during the summer. Internationals residing locally can enroll for shorter periods of time. Classes designed to meet special needs can also be arranged outside of those regularly scheduled.

**International Programs and Study Abroad** The Office of International Programs administers semester and year-long exchange programs and facilitates study abroad programs for shorter periods of time. Exchanges are currently available at more than 120 colleges and universities in some 40 countries through the International Student Exchange Program (ISEP) and the College Consortium for International Students (CCIS). Some of the ISEP and CCIS programs are taught totally in English and others totally in the native language, but many provide the opportunity to increase language skills while taking other courses in English.

Direct or one-on-one exchanges are also administered by International Programs. The University of Memphis currently has agreements for such exchanges with universities in China, Czech Republic, France, Japan, Korea, Germany, Netherlands, and the United Kingdom. Negotiations to add to the number of exchange partners are underway, both direct and through our affiliated programs.

Short-term study programs in the summer are offered by faculty members of the University of Memphis and through consortia and affiliated programs. Spanish study in Costa Rica and the British Studies Program in London are among the more popular offerings. The Office of International Programs also maintains a library of information on other international programs for semester or summer study around the world. International Student Identification Cards which provide insurance and discounts for students traveling abroad may be purchased at the Office of International Programs.

Competitive Study Abroad Scholarships are available to academically able students. In order to assist with the added cost of international travel, financial aid, which is available for on-campus study, is available for study abroad as well.

The Office of International Programs welcomes the opportunity to advise students on the possibilities of study abroad.

**Pre-Health** The University of Memphis offers the prerequisite courses student must complete prior to applying for admission to professional school in medicine, dentistry, optometry, osteopathic medicine, pharmacy, veterinary medicine, podiatry, chiropractic medicine, physician assistant or cardio-respiratory care, as well as the prerequisite classes required for admission to an allied health program such as cytotechnology, dental hygiene, health information management, medical technology, occupational therapy, or physical therapy.

The Pre-Health Advising Center, located in 107 Scates Hall, and designated faculty members work closely with students seeking admission to professional school. Students receive counseling in regard to course sequencing and professional school admission requirements. In addition, the Pre-Health advisor coordinates workshops and meetings with health science professionals to provide students with in-depth insight into their chosen profession.

The University of Memphis Chapter of Alpha Epsilon Delta (AED), the National Premedical Honor Society, holds regular peer mentorship sessions and activities of interest to pre-health students. Qualified students are encouraged to apply for membership in AED. Membership eligibility criteria and application forms are available in 107 Scates Hall.

The Pre-Health Advising Center welcomes the opportunity to be of assistance to students whose goal is admission to a health science professional school and encourages them to take advantage of the opportunities the Center provides.

**Pre-Law** Law schools do not prescribe a definite pre-law curriculum for prospective applicants. Therefore, there is no single major required for pre-law students. Instead, law schools seek to attract applicants possessing a broad educational background. The University of Memphis offers a minor in Legal Thought and Liberal Arts, designed for students who intend to enter the legal profession. Course work in the minor introduces students to the major intellectual traditions of the West and assists in the development of the skills necessary for future success in law school.

The Pre-Law Society provides students the opportunity to meet practicing attorneys, judges, law school faculty and admissions officers as well as other students with similar interests. The society, in cooperation with the Cecil C. Humphreys School of Law, sponsors an annual orientation afternoon at the law school during which members have the opportunity to attend classes and meet law faculty and students.

Students interested in law school, the minor in Legal Thought and Liberal Arts or the Pre-Law Society should contact the Pre-Professional advisor in room 107 Scates Hall,

**The University Store** The University Store is managed by Barnes and Noble Bookstores, Inc. for the convenience of students, faculty and staff. In addition to textbooks and required school supplies, the store handles a large selection of general books, complete line of insignia clothing and gift merchandise, microcomputers, art supplies, and a variety of items for the convenience of the resident students.

**Post Office** The University Post Office has post office boxes available for rent by students and faculty. Student mail should be addressed as follows:

Student Name

The University of Memphis

XXXX Campus Postal Station

Memphis TN 38152-xxxx

**Automobiles on Campus** Each student who operates and parks any motor vehicle on the campus of the University of Memphis must be registered with the Parking Office by receiving an official permit (hang tag). Permits (hang tags) are permanent and must be displayed when parking a vehicle on campus. The Parking Office will issue each new student a permit (hang tag) when the student registers for classes. The student will receive a validation sticker for placement on the original parking permit every subsequent semester that he or she registers.

A valid parking hang tag does not guarantee a parking space on University property. It is the driver's responsibility to locate an authorized parking space and abide by the parking rules and regulations of the University of Memphis. Citations will be issued and vehicles may be towed for violations.

**Art** The Department of Art sponsors visiting artists and lecturers, workshops and symposia through the academic year. The Art Museum of the University of Memphis (AMUM) provides students and the community with an on-going schedule of exhibitions. It also houses permanent collections of African and Egyptian art and artifacts. The Museum maintains a wide selection of objects from ancient to contemporary that are available for student research.

**Music** The Department of Music presents annually some 200 concerts, recitals and other cultural events to the University and community at large. It offers many activities and programs in which students may participate as individuals or as groups. Qualified students, regardless of major, may participate in the numerous musical groups including the University Symphony Orchestra, the University bands, and a variety of choral groups and small instrumental ensembles. Additionally the University's state-of-the-art recording studios are open for student use after proper instruction.

**Theatre and Dance** The Theatre and Dance Department sponsors guest artists, workshops, and a full season of theatre and dance productions available to all full-time students. Additionally, all students, regardless of major, are invited to participate in departmental productions either as performers or backstage persons. Production opportunities exist in both the main theatre and dance season as well as many informal activities such as Lunchbox Theatre.

**Communication** Programs in radio, television, and film are offered by the Department of Communication. WUMR-FM 92 is student operated. Two state-of-the-art television/film studios also offer students the opportunity to participate in broadcasting quality productions.

**Publication** Students write and edit The Helmsman, the University newspaper (4 issues per week).

**Goodwyn Institute Lectures** The lectures and addresses offered by the Goodwyn Institute cover a variety of subjects. The purpose of these lectures is to provide a system of continued education for adults and youths along general and special interests, concentrating on illustrated lectures covering all areas of the world, and to afford authoritative and accurate information upon practical and cultural subjects.

**Cheerleaders** The University of Memphis cheerleaders are one of the "Premier College Squads in the Nation." The cheerleading squads consist of a Varsity team (up to 10 couples) and an all-women "Blue Squad" that has 14 to 16 members. The mascot, "Pouncer," and both squads cheer at all University of Memphis home football and basketball games. The Blue Squad also cheers for the Lady Tigers' home games in the Field House on the University of Memphis campus. The cheerleaders and "Pouncer" are involved in an array of community and University activities. For additional information, contact the Cheerleading Office, room 375, Field House.

## Pom Pon Squad

The University of Memphis PomPon Squad is the top dance team in the country, having won the National Championships nine times. There are two squads, the Varsity and Junior Varsity. Both squads perform at all home football games. The Varsity attends all men's basketball games, performing half-time shows at selected games. The Junior Varsity performs at the Lady Tigers' home games. For additional information, contact the PomPon Office, room 377, Field House.

## Honors and Awards

### Honor Societies

*Alpha Epsilon Delta*, international premedical honor society

*Alpha Kappa Delta*, the national honorary society in sociology

*Alpha Lambda Delta*, a national honor society for freshman students

*Black Scholars Unlimited*, an honor society promoting academic experiences in scholarship, leadership, and service with special emphasis towards black students

*Chi Beta Phi*, a national science and mathematics honorary society

**Chi Sigma Iota**, a national counseling honor society  
**Gamma Beta Phi**, an honor and service society  
*Gamma Theta Upsilon*, a national honorary society for geography students.  
*Golden Key National Honor Society*, a national interdisciplinary honor society for academically outstanding juniors and seniors  
*Honors Students Council*, an organization for University Honors students  
*Kappa Delta Pi*, a national honor society in education  
*Lambda Pi Eta*, a communications studies honorary  
*Mortar Board*, a national honor society established to provide for cooperation among honor societies for seniors  
*Omicron Delta Kappa*, the National Leadership Honor Society  
*Order of Omega*, a national honor society for members of Greek fraternities  
*Phi Alpha Theta*, the national honor society in history  
*Phi Eta Sigma*, a national freshman scholastic honor society  
*Phi Kappa Phi*, a national all-discipline honor society  
*Pi Delta Phi*, a society to recognize outstanding scholarship in French language and literature  
*Pi Sigma Alpha*, the national honor society in political science  
*Pi Tau Sigma*, the national honor society in mechanical engineering  
*Pinnacle*, an honor society for nontraditional students  
*Psi Chi*, the national honor society in psychology  
*Sigma Delta Pi*, the national Spanish honor society  
*Sigma Pi Sigma*, a national honor society for physics students  
*Sigma Tau Delta*, a national honor society for English language and literature students  
*Tau Beta Pi*, a national engineering academic honor society

## Awards

*Who's Who Among Students in American Universities and Colleges*, one of the highest honors that a student may receive at the University of Memphis

[Special Awards](#)

## Departmental Awards

[College of Arts and Sciences](#)  
[Fogelman College of Business and Economics](#)  
[College of Communications and Fine Arts](#)  
[College of Education](#)  
[Herff College of Engineering](#)  
[Loewenberg College of Nursing](#)  
[University College](#)  
[Department Of Aerospace Studies](#)  
[Department Of Military Science](#)  
[Department Of Naval Science](#)

## Special Awards

**Maria Leonard Scholarship Award** is presented annually by Alpha Lambda Delta, national scholastic honor society, to the senior member of the society with the highest academic average.

**Golden Key National Honor Society** presents annually two scholarships to junior and senior members of the local chapter who have excelled in scholarship, leadership and participation in activities.

**Phi Kappa Phi Scholarship Awards** are presented annually to five undergraduate and graduate members who demonstrate high scholastic ability and excellent leadership, who provide meaningful service to the University, and who will continue their studies at the University.

**The David A. Collins-Omicron Delta Kappa Leadership Scholarship Award** is presented to a member of the U of M Circle who will continue studies at the graduate level, who has shown responsible and effective leadership, who has made significant contributions to the student body, and who inspires and encourages others to use their leadership talents for the benefit of their peers.

**The Honors Program Director's Award** is presented to an honors student for outstanding academic performance in an honors curriculum.

**The Jimmy Carter Presidential Award for Volunteerism** is presented to that student who best exemplifies the spirit of volunteerism and action that helps alleviate human need.

**The Joseph R. Riley Student Service Award** is presented for outstanding service to the Honors Program and the Honors Student Association.

**The Samuel T. Boswell Student Leadership Award** is presented in recognition of outstanding leadership in campus issues and activities, example set for peers, the display of personal and political courage, and/or community involvement.

**Rosetta I. Miller Award** is presented to the outstanding woman student who has returned to college despite significant hardships.

**Greek All-Sing Follies Scholars Merit Awards:** Scholarships of \$250 each are awarded annually by the Interfraternity Council to the pledge/associate from the previous fall or spring semester who attained the highest grade point average, and to the fraternity member with the highest grade point average over the past two consecutive semesters.

**The Women's Panhellenic Council** annually awards one \$250 scholarship to the sorority member who has attained the highest scholastic average. In addition, a Pledge Scholarship in the amount of \$250 is awarded to the fall semester pledge who attained the highest average for the semester.

**Two Panhellenic Council** scholarships are awarded each spring to the PHC fraternity man and sorority woman who have obtained the highest cumulative grade point average for the previous year. Awards are in the amount of \$250 each.

**Women's Intercollegiate Athletics Scholar Award** is presented annually to the woman athlete who has maintained the highest grade point average while at the University.

**The Elma Roane Outstanding Woman Athlete Award** is presented to the junior or senior woman athlete who best exemplifies the following qualities: drive, enthusiasm, determination, concern for others, love for athletics, maturity, involvement in campus activities, and self discipline in all aspects of life.

**Campus Recreation and Intramurals Awards** are presented annually to the intramural Greek, intramural Independent Resident, Panhellenic Manager of the Year, and Outstanding Official of the Year who show leadership and interest in the intramural program.

## College of Arts and Sciences

The College of Arts and Sciences Awards

**THE COLLEGE OF ARTS AND SCIENCES DEAN'S AWARD FOR OUTSTANDING UNDERGRADUATE STUDENT** is presented to a student who has displayed outstanding academic achievement, as well as strong leadership, character, scholarship, and contribution to department and campus activities.

**THE DEPARTMENT OF ANTHROPOLOGY** presents the Outstanding Anthropology Senior Award to the student with the most outstanding record of academic achievement in the major. The department also presents the Outstanding Anthropology Student Service Awards to the graduating student with the most outstanding record of contributions to service and engaged outreach.

**THE BIOLOGY FACULTY AWARD** is presented to the undergraduate student who makes the most significant contribution to the department.

**THE DEPARTMENT OF CHEMISTRY** presents the Outstanding General Chemistry Student award to the student in Principles of Chemistry who has demonstrated outstanding leadership ability and scholastic achievement.

**THE DEPARTMENT OF CRIMINAL JUSTICE** annually presents the Mu Sigma Chi Professional Criminal Justice Award to the student of Criminal Justice deemed outstanding in professional activities.

**THE DEPARTMENT OF ENGLISH** offers several awards:

- a. The Distinguished Scholarship Award presented each year to the English major whose work demonstrates an unusually high order of academic excellence.
- b. Honors Thesis Award presented in recognition of the outstanding honors thesis by a student in the English Honors Program.
- c. Giem and Collins Writing Contest presented for excellence in student writing produced in freshman and sophomore English courses.

**THE DEPARTMENT OF EARTH SCIENCES** annually presents the Outstanding Senior Award to a senior in Geology exhibiting scholarship, leadership and service. The department also presents each year the Paul H. Sisco Award to the outstanding senior Geography major.

**THE DEPARTMENT OF FOREIGN LANGUAGES AND LITERATURES** presents the Outstanding Foreign Language Student of the Year award to a major who has consistently excelled in the discipline.

**FRENCH GOVERNMENT ASSISTANTSHIPS:** The French Government through the French Embassy in The United States, on the recommendation of the French Section of the Department of Foreign Languages, each year awards one or more assistantships in France for the teaching of English in secondary schools.

**THE DEPARTMENT OF HISTORY** annually presents the Tennessee Historical Commission Award to that senior student of History



judged by the faculty to be the outstanding History major. The department also presents an award for the outstanding paper presented by an undergraduate.

**THE INTERNATIONAL STUDIES PROGRAM Outstanding Senior Award** is presented to the student with the most outstanding record of academic achievement in the major.

**THE DEPARTMENT OF MATHEMATICAL SCIENCES** annually presents the R. P. Clark Memorial Award to an outstanding junior.

**THE DEPARTMENT OF PHILOSOPHY OUTSTANDING STUDENT AWARD** is presented to a student in Philosophy chosen on the basis of high scholastic achievement, papers written, and performance in senior honors seminars.

**THE DEPARTMENT OF PHYSICS** each year presents the Outstanding Student Award to the most distinguished senior Physics major.

**THE DEPARTMENT OF POLITICAL SCIENCE** presents the Outstanding Student Award each year to the graduating senior majoring in Political Science who has compiled the best record of academic achievement in the discipline. Also The John W. Burgess Award is presented for meritorious achievement in Political Science, and the Pre-Law Award is presented to the political science major whose pre-law studies demonstrate high promise for a distinguished legal career.

**THE DEPARTMENT OF PSYCHOLOGY** presents annually The Dr. Milton C. Addington Award for Excellence in Psychology to the senior Psychology major exhibiting the most individuality, interest, initiative, integrity, creative ability and originality.

**THE DEPARTMENT OF SOCIOLOGY** annually presents The Jerry Michel Outstanding Student Award to the senior student judged to be the outstanding Sociology major.

**ALPHA EPSILON DELTA**, the health pre-professional honor society, annually presents the Student of the Year Award to the member who has demonstrated outstanding leadership, loyalty, and responsibility.

**THE CHI BETA PHI SCIENCE AWARDS** are presented to students who have attained the highest academic average during their four years of study in each of the following disciplines: Biology, Chemistry, Geology, Mathematical Sciences, Physics, and Psychology.

## Fogelman College of Business and Economics

### The Fogelman College of Business and Economics Awards

**Dean's Award for Most Outstanding Student** is presented to an outstanding student who has displayed strong leadership, outstanding character, scholarship, and who is active in department and campus activities.

**School of Accountancy Outstanding Graduate Award** is presented to the graduating student who has the highest overall scholastic average among all Accountancy majors.

**The Tennessee Society of Certified Public Accountants Award**, Memphis Chapter, is presented annually to the graduating student who has the highest overall scholastic average among all Accountancy majors.

**The Outstanding Economic Undergraduate Student Award** is presented by the Department of Economics to a junior or senior Economics student with the highest grade point average. A similar award is presented to the graduate student in Economics.

**The Memphis Chapter of The Society of Chartered Property Casualty Underwriters** annually awards a check and a plaque to the outstanding student in the field of insurance.

**Academic Excellence Award for the Department of Management** is presented annually to the B.B.A. graduate in Management of the past year with the highest scholastic achievement.

**Academic Excellence Award for the Department of Management Information Systems and Decision Sciences** is awarded to the B.B.A. graduate of the previous year with the highest scholastic achievement.

**Outstanding Undergraduate Marketing Student** is presented to a graduating student with outstanding scholastic achievement and service to the department, University, and community.

**Outstanding Undergraduate Logistics/Marketing Major** is presented to a graduating student with outstanding scholastic achievement and service to the department, University, and community.

**Outstanding Undergraduate Marketing Management Major** is presented to a graduating student with outstanding scholastic achievement and service to the department, University, and community.

**Outstanding Undergraduate Sales Major** is presented to a graduating student with outstanding scholastic achievement and service to the department, University, and community.

**Crawford Delta Sigma Pi Award** is awarded annually to an outstanding pledge member of the Delta Sigma Pi Fraternity who has demonstrated creative leadership skills and outstanding scholastic ability.

**Delta Sigma Pi**, international business fraternity annually awards a scholarship key to the student in The Fogelman College of Business and Economics graduating with the highest academic average in business.

**The Union Planters/U of M Fogelman College Alumni Chapter Scholastic Achievement Awards** are awarded each semester to three graduating seniors in recognition of their outstanding scholastic achievement in the college. Award includes a check and their names inscribed on a plaque.

## College of Communication and Fine Arts

### The College of Communication and Fine Arts Awards

**Dean's Academic Achievement Award** is available to a student majoring in a discipline within the College of Communication and Fine Arts. It recognizes the graduating student with the highest grade point average.

**Dean's Creative Achievement Award** is based on outstanding creative activity in the areas encompassed by the College of Communication and Fine Arts.

**Creative Achievement in Art** is awarded annually by the Art Department for outstanding creative achievement in art to a senior majoring in Art. A cumulative GPA of at least 3.0 is required.

**"Best of Show Award" Juried Student Exhibition** is awarded annually to the student whose work is judged "Best of Show" in the Annual Juried Student Exhibition.

**Thesis Award in Art History** is presented in recognition of an outstanding masters thesis in Art History.

**Art History Graduate Award** is presented annually to a graduate student for outstanding initiative and research.

**Art History Undergraduate Award** is presented annually to an undergraduate student for outstanding work in Art History.

**Society of Professional Journalists**, Memphis Chapter, annually presents a certificate of achievement and a cash award to the student chosen as outstanding in the field of Journalism.

**Society of Professional Journalists**, Sigma Delta Chi Mark Of Excellence Awards, Arkansas, Louisiana, Mississippi, West Tennessee Region, annually presents first place awards for Best TV Broadcasting, Best Editorial Cartoon, Best Feature Article, and Best Photography Feature.

**Sigma Alpha Iota College Honor Award** is an award based on musicianship, scholarship, and general contribution to the collegiate chapter.

**Sigma Alpha Iota Honor Certificate** is presented annually to the graduating senior of this chapter having attained the highest academic average.

**Paul Eaheart Memphis Woodwind Quintet Scholarship** is presented in honor of Paul Eaheart for excellence in wind performance.

**Lubrani Clarinet Award**, in memory of Professor Frederic Lubrani, is presented for clarinet performance ability, general scholarship, service to the Rudi E. Scheidt School of Music, and potential in the profession.

**Smit Composition Award** is presented in memory of Professor Johannes Smit for excellence in composition.

**Hearst Awards** are presented as the result of an annual national Writing, Broadcasting, and Photography competition among accredited journalism programs for work appearing in student publications. Cash prizes range from \$200 to \$2,000 with matching awards going to sponsoring journalism departments.

**Hohenberg Foundation, Inc. Dance Award** is presented annually to a student pursuing a Bachelor of Fine Arts degree with a concentration in Dance. The recipient must have at least a 2.5 GPA.

**Art Center Supply Award** is given annually to a sophomore, junior, or senior majoring in Graphic Design. Selection is based on portfolio and academic performance.

**Memphis-Germantown Art League Award** is presented annually in the spring to an undergraduate Art major who has demonstrated exceptional artistic abilities in any discipline within the Department of Art.

**University Bookstore Supply Award** is given annually to an undergraduate Art major. Selection is based on portfolio and academic performance.

**The Linn Sitrer Theatre Award** is presented to an outstanding Theatre student with a minimum GPA of 3.0.

**The Saul Brown Award** is given to a Journalism major concentrating in news writing. Saul Brown retired from the Memphis Press-Scimitar in 1980 as the newspaper's chief photographer. Selection for the award is based on talent, skill, and a student's promise as a journalist as demonstrated by his or her articles and/or photographs.

**The Kappa Tau Alpha Award** is given to the member of Kappa Tau Alpha Journalism honor society who has achieved the highest academic average.

**The MTNA Student Achievement Award** is given by the Music Teachers National Association annually to a music student for excellence in studio teaching.

**The Raymond Lynch Oboe Award** established to recognize the distinguished career of the former oboe teacher and associate dean of the College of Communication and Fine Arts, Dr. Raymond Lynch, is given annually to an outstanding oboist.

**The Harold Streibich Award**, established in memory of Att. Harold Streibich recognizes an outstanding Music Business student.

**Belle Melodies Scholarship Award** is sponsored by St. Mary's Episcopal School in support of a Recording Technology student.

**Phi Kappa Lambda Academic Achievement Award** is presented to the senior music student with the highest GPA.

**Excellence in Design Award** is given annually to an undergraduate architecture or interior design student selected by a vote of the faculty. Nominations are submitted from each architecture and interior design studio faculty member. Excellence in Design Award is given annually to a graduate architecture student selected by a vote of the faculty. Nominations are submitted from each architecture graduate design studio faculty member.

**ARCC Jonathan King Medal** is awarded annually to a graduating architecture or interior design student based upon nominations and a vote of the department faculty. The Architectural Research Centers Consortium offers one medal per school of architecture and design internationally. The medal acknowledges innovation, integrity, and scholarship in architectural and/or environmental design research.

**Alpha Rho Chi Bronze Medal** is awarded to the undergraduate architecture or interior design student whose academics, leadership, and service best represent the ideals of Alpha Rho Chi, the national co-ed fraternity for architecture and the allied arts, as voted upon by the department faculty. Winners need not be a member of APX but must have completed third year undergraduate classes.

**Creative Achievement Award** is given annually to the architecture or interior design student whose overall body of work best represents the Department of Architecture and its mission. Nominations are submitted and voted upon by the department faculty.

**Graduate Thesis Award** is presented to a Master of Architecture student in recognition of the most outstanding graduate thesis completed during the academic year. The award is based on a vote of the department faculty.

**Honors Thesis Award** is presented to a Bachelor of Fine Arts in Architecture or Bachelor of Fine Arts in Interior Design student in recognition of the most outstanding University Honors/Department of Architecture Honors thesis completed during the academic year. The award is based on a vote of the department faculty.

## College of Education

**Eleanor Mae Ferguson Award** is presented each year to the outstanding junior or senior woman Physical Education major who displays strong leadership, outstanding character, and high scholarship and who performs an active role in departmental and campus activities.

**Ralph Hatley Sr. Award** is presented to the outstanding junior or senior male Physical Education major who displays strong leadership, outstanding character, and high scholarship and who performs an active role in departmental and campus activities.

**The Department of Health and Sport Sciences Outstanding Senior In Sport and Leisure Studies Award** is presented annually in recognition of meritorious scholarship, leadership and service to the University, the community and the profession.

**The Department of Health and Sport Sciences Outstanding Graduate Student Award** is presented annually in recognition of meritorious scholarship, leadership and service to the University, the community and the profession.

**The Department of Health and Sport Sciences Outstanding Senior In Health and Human Performance Award** is presented annually in recognition of meritorious scholarship, leadership and service to the University, the community, and the profession.

**The Department of Instruction and Curriculum Leadership Outstanding Senior Award** is presented annually to an outstanding senior majoring in Special Education and Rehabilitation who displays strong leadership, outstanding character and scholarship and takes an active role in departmental and campus activities.

**The Frank Dyer, Jr. Kappa Delta Pi Junior Academic Achievement Award** is presented annually to the junior having the highest grade point average.

**The John R. Petry Kappa Delta Pi Senior Academic Achievement Award** is presented annually to the senior having the highest grade point average.

**The Department of Consumer Science And Education Outstanding Senior Award** is presented each year to the graduating senior in the department with the highest academic average.

**The Marquita L. Irland Scholars Award** is presented annually to a graduate with outstanding contributions in the areas of leadership, service to the community, to the profession of family and consumer sciences, and scholarship.

**The Memphis Education Association Award** is presented each year to the graduating senior who, having graduated from the Memphis City Schools System and completed all college level work in a teacher education program at the University, has attained the highest grade point average of the students in this category.

**The Heber E. Rumble Outstanding Student Teacher Award** is presented each year to the student whose performance in student teaching is judged to be the most outstanding.

**The Department of Instruction and Curriculum Leadership Outstanding Early Childhood Major Award** is presented annually to the Early Childhood Education major who has demonstrated outstanding scholarship, involvement in professional organizations, and professional potential.

**The Department of Instruction and Curriculum Leadership Outstanding Elementary Education Major Award** is presented annually to the Elementary Education major who has demonstrated outstanding scholarship, involvement in professional organizations, and professional potential.

**The Department of Instruction and Curriculum Leadership Outstanding Master's Degree Candidate Award** is presented to the master's candidate who has demonstrated outstanding scholarship, involvement in professional organizations, and professional integrity.

**The Dean's Award** is presented annually on the basis of scholarship, professionalism, leadership, and service to the College of Education, Health and Human Sciences, the University, and/or professional organizations.

## Herff College of Engineering

### The Herff College of Engineering Awards

**Outstanding Senior Awards** in the College of Engineering are presented to the outstanding senior, based on scholarship, in each of the following departments: Electrical Engineering, Mechanical Engineering, and Engineering Technology.

**Outstanding Student Member of IEEE** is presented an award by The Institute of Electrical and Electronics Engineers, student chapter.

**The Thomas S. Fry Award** is presented annually to the graduating Civil Engineering student who has demonstrated outstanding academic achievement.

**The T. S. Wu Design Award** is presented annually to the graduating Civil Engineering student who has demonstrated outstanding design capability throughout the curriculum.

**Associated General Contractors Award** is presented annually by the student chapter for outstanding achievement.

**Fred H. Kellogg Award** is presented annually to the outstanding student in Civil Engineering that is most likely to be an outstanding professional engineer.

**Ashrae Award** is presented annually to the outstanding junior in Mechanical Engineering.

**Engineering Dean's Award** is presented annually to the graduating student who has compiled the highest academic achievement in the college.

**Engineer-In-Training Award** is presented to the student who achieves the highest score on the Fundamentals of Engineering examination, which is the first step in becoming a registered engineer.

## Loewenberg College of Nursing

### The Loewenberg College of Nursing

#### Caring Award

This award is given to a student who demonstrates attributes of caring. Caring is defined as a human state, a moral imperative or ideal, an affect, an interpersonal relationship, and a nursing intervention.

#### Diversity Award

This award is given to a student who embodies the spirit of diversity. Diversity is defined as embracing the recognition, acceptance, and respect of human differences.

#### Integrity Award

This award is given to a student who demonstrates attributes of integrity. Integrity is defined as acting in accordance with an appropriate professional code of ethics and accepted standards of practice.

#### Leadership Award

This award is given to a student who demonstrates attributes of leadership. Leadership is defined as influencing the actions of individuals and organizations in order to achieve desired goals.

#### Dean's Award

This award is given to a student who demonstrates attributes of all four of the Loewenberg College of Nursing core values: caring, diversity, integrity, and leadership.

## University College

### University College Awards

**Distinguished Special Project Award** is presented to each student whose special project has been judged outstanding by the Faculty Council of University College.

**Faculty Council Award** is presented to the graduating senior, each commencement, who has earned the highest overall grade point average.

**Dean's Award for Special Achievement** is given to honor University College graduates who have demonstrated academic achievement, leadership, professional and/or social commitment, and determination to complete a baccalaureate program.

**Academic Achievement Award** is given to University College baccalaureate graduates who have demonstrated academic excellence and scholarly potential.

**Alma Bucovaz Award for Urban Studies in the University College** is presented to a junior or senior with an approved baccalaureate program that addresses urban problems and seeks to ameliorate urban needs.

**Bornblum Judaic Studies Award** is presented to students who have excelled in the study of Hebrew Language and/or Judaic Studies.

**The Legal Research Award** is given annually to the paralegal student demonstrating exceptional mastery of the principles of legal research and writing.

**Outstanding Distance Education Student Awards** are presented each year to the students (one undergraduate and one graduate) who, while taking courses away from the main campus, have demonstrated unusual commitment and scholarly endeavor in the pursuit of continuing their education. Consideration for the award may include grade point average, unusual family commitment, service to peers, ability to balance scholarly pursuit with work, family, and community service, and unusual service to U of M or Extended Programs.

**Outstanding Paralegal Student Award** presented to a student seeking a Bachelor of Professional Studies degree in Paralegal Services who has demonstrated academic achievement, leadership, professional and/or social commitment, and dedication to the paralegal profession and the university.

## Department of Aerospace Studies

### Department of Aerospace Studies Awards

**The President's Award** is presented annually to the senior AFROTC cadet who has demonstrated outstanding attributes of leadership and high moral character. Selection is made by AFROTC, with final approval by the university president.

**Angel Of The Year Award** is presented to the member of Angel Flight who has given the most in service to the campus and the community.

**Arnold Of The Year Award** is presented to the member of Arnold Air Society who has given the most in service to the campus and the community.

## Department of Military Service

### The Department of Military Service Awards

**Soldier's Medal** is awarded to cadets who distinguish themselves by an act of heroism at advanced camp.

**ROTC Medal for Heroism** is awarded to cadets who distinguish themselves by an act of heroism performed on or off campus.

**The President's Award** is presented annually to the U of M senior cadet who has demonstrated outstanding attributes of leadership and high moral character. Selection is made by the department chair with final approval by the University president.

**George C. Marshall ROTC Award** is presented annually to the U of M senior cadet who has demonstrated outstanding leadership and scholastic qualities.

**Hughes Trophy Award** is presented annually to the cadet who is recommended by the professor of military science and the dean as the most outstanding commissioned graduate based upon officer potential and academic leadership.

**Pallas Athene Award** is presented annually to the most outstanding graduating female cadet.

**National Defense Transportation Association Award** is presented annually to the most outstanding senior cadet who is recommended by the professor of military science and the dean as being in the top twenty five percent of the ROTC and academic class and who possesses an interest in the Transportation Corps.

**Armed Forces Communications Electronics Association Honor Award** is presented to a senior cadet majoring in Math, Chemistry, Physics, Engineering, or Photography who is active on campus or academically distinguished and has demonstrated outstanding qualities of military leadership and high moral character.

**Alden Patridge Commemorative Award** is presented to the top graduating Science or Engineering student in the Army ROTC program.

**Distinguished Military Student/Graduate Award** is presented annually to senior cadets who are in the upper third of the ROTC class and upper half of the University class who are active on campus, are outstanding leaders, and possess an aptitude for military service.

**Department of the Army Superior Cadet Decoration Award** is presented annually to outstanding junior and senior cadets who have demonstrated academic leader qualities in scholastic and related activities and officer potential, and who are in the top twenty five percent of their ROTC and academic class.

**American Legion General Military Excellence Award** is presented annually to the outstanding cadet who has demonstrated qualities in military leadership, discipline, character, and citizenship, and is in the top twenty five percent of ROTC and academic class.

**American Legion Scholastic Excellence Award** is presented annually to the outstanding junior and senior cadets who have demonstrated qualities in leadership and actively participated in student activities. and who are in the top twenty five percent of their ROTC class and the top ten percent of their academic class.

**Society of American Military Engineers Award** is presented annually to the junior and senior cadets who are recommended by the professor of military science and the Dean as being in the top twenty five percent of the ROTC and academic class and the outstanding Engineering students of the year.

**Association of the United States Army Award** is presented to the junior who contributes the most, through leadership, to advancing the standing of the Military Science Department while in the top twenty five percent of the ROTC class and top ten percent of the academic class.

**American Defense Preparedness Award** is presented annually to the junior cadet who demonstrated outstanding leader qualities and participated actively in campus activities, placed in the top twenty percent of the platoon at Advanced Camp, received a B or above in all ROTC classes, and is in the upper half of the academic class.

**Armed Forces Communications Electronics Association Scholarship Award** is presented to Basic Course students accepted to the Advanced Course who are of high moral character, in the top twenty five percent of their academic class, and in need of financial assistance in completing a degree in Electrical Engineering or Technical Photography.

**Daughters of the Founders and Patriots of America Award** is presented annually to a freshman or sophomore cadet who is in the top twenty five percent of the ROTC class and has demonstrated excellence in history, the potential for good leadership, and related accomplishments reflecting the ideals of patriotism.

## Department of Naval Science

### The Department of Naval Science Awards

**Trident Honor Society Award** is presented to outstanding Naval midshipmen who have demonstrated the highest caliber of academic excellence.

### NROTC Awards

**President's Award** is presented annually by the University president to a graduating senior who demonstrates outstanding attributes of leadership and high moral character.

**Navy League of Memphis Honor Sword Award** is presented to the Naval Graduate selected as the one Midshipman of the graduating class who has consistently demonstrated the highest leadership ability throughout the program.

**Reserve Officers Association** is presented annually to the outstanding freshman, sophomore, junior, and senior who have demonstrated above average scholastic achievements, exceptional mastery of previous Naval Science courses, and superior potential for commissioned service.

**The Retired Officers Association Award** is presented to the outstanding junior who has demonstrated above average scholastic achievement, high moral character and exceptional potential for military leadership.

**American Defense Preparedness Association Award** is presented annually to an outstanding senior whose scholastic achievements are in the top half of the class and in the top one-fifth of NROTC enrollment at the University, who has shown active participation in athletics or campus activities and demonstrated outstanding leadership qualities.

**Society of the War of 1812 Award** is presented annually to an outstanding sophomore whose scholastic average is within the upper quarter of the class, and who demonstrates the ideals of Americanism.

**Sons of the American Revolution Medal** is presented annually to an outstanding freshman who has demonstrated leadership, military bearing and all around excellence in NROTC program studies and activities.

**National Sojourners Award for Americanism** is presented annually to a sophomore or junior who has demonstrated the ideals of Americanism, outstanding scholastic achievements and the potential to be an outstanding leader.

**American Legion ROTC General Military Excellence Award** is presented annually to one freshman, sophomore, and junior, each of whose scholastic achievements are in the top quarter of the class and who have demonstrated outstanding qualities in military leadership, discipline, character and citizenship.

**American Legion ROTC Scholastic Excellence Award** is presented annually to a freshman, sophomore, junior, and senior, each of whose scholastic achievements are in the upper ten percent of the University and who have demonstrated high qualities of military leadership.

**Military Order of the World Wars Medal** is presented to a freshman, sophomore, junior, and senior who each have demonstrated marked improvement in military scholastic achievements.

**Veterans of Foreign Wars Award** is presented annually to a freshman, sophomore, junior and senior who each have demonstrated achievement and concentrated effort in Naval Science and academic subjects and demonstrated capability and diligence in the Naval ROTC program.

**Daughters of the American Revolution Award** is presented annually to a graduating senior whose scholastic achievements are in the top quarter of the class and who has demonstrated qualities of dependability, good character, adherence to military discipline, leadership ability and a fundamental and patriotic understanding of the importance of the ROTC program.

**Daughters of the American Revolution Certificate** is presented annually to a junior who best exemplifies the qualities of dependability, good character, adherence to military discipline, leadership ability and a fundamental and patriotic understanding of the importance of the ROTC program.

**Daughters of Founders and Patriots of America Award** is presented annually to an outstanding sophomore or freshman who demonstrates qualities of dependability, good character, discipline, leadership, and patriotism.

**Military Order of Foreign Wars Medal** is presented annually to an outstanding freshman, sophomore, and junior who each have demonstrated discipline, good character, and leadership ability.

**American Veterans of World War II, Korea, and Vietnam Medal** is presented annually to an outstanding freshman with superior standing in military and academic subjects.

**Naval Institute Leadership Award** is presented annually to a graduating College Program student, Officer Candidate, and Marine Enlisted Commissioning and Education Program student who each have demonstrated outstanding potential for Naval leadership.

**General Dynamics Award** is presented annually to a Midshipman, Officer Candidate, and Marine Enlisted Commissioning and Education Program student who each have demonstrated outstanding leadership ability.

**Armed Forces Communications and Electronic Association Award** is presented to Midshipmen of good moral character, who are in the top fourth of their class, working toward a degree in electronics, communications, electrical engineering, mathematics, computer technology or intelligence systems, and who need financial assistance.

**Armed Forces Communications and Electronic Association Honor Certificate** is presented annually to a junior who has demonstrated high achievement in leadership and in academics and is academically strong in electronics, communications, electrical engineering, mathematics, computer technology or intelligence systems.

**Naval Submarine League Award** is presented annually to the graduating senior who has demonstrated superior leadership ability and academic aptitude for entry into the Submarine Warfare Community.

**Marine Corps Association Award** is presented annually to the graduating Marine-option Midshipman or Marine who best exemplifies the leadership qualities and professionalism of a Marine officer.

**Mariner of the Year** is presented annually by the Naval Science Department to a member of the Mariners who has given most in service to the department, University, and community.

## Academic Regulations

### Appeals

Students have the right to appeal decisions made by University officials in the implementation of University policy. If a student feels that individual circumstances warrant an appeal, the request for appeal must be filed in the University office responsible for the implementation of that policy or the office specified in the policy statement.



## Class Attendance

Instructors may use class attendance in computing grades. If they choose to do so, they must present all students attending the first and second class meetings with a complete written statement of their policy, detailing the weight of attendance in determining the final grade.

A student who is absent from the final examination without the permission of the teacher incurs a grade of "F" on the examination and may, depending on the weight of the examination in determining the final grade, incur a grade of "F" for the course.

Instructors will report to the Office of the Registrar all students who have not attended any class meetings during the first two weeks of classes (fall/spring) or the first week of classes (summer). About 2-3 weeks into both the fall and spring semesters, instructors will begin recording attendance. This is required for financial aid and veteran service reporting. After this process is underway, the Registrar's office will notify all students to check their reported attendance. Students accept both fee and grade liability at the time of registration. Students who do not attend classes are responsible for processing an official drop/withdrawal on [Student Self Service](#). In order to avoid fee or grade liability, students must drop/withdraw prior to the first day of classes for the session in which the course is taught.

Students who receive VA benefits or Title IV funds (federal financial assistance) for enrollment fees but who stop attending, may have current and future awards canceled and may have to repay benefits immediately, whether or not they officially withdraw or drop courses. Furthermore, students who stop attending will be assigned a grade of "F" in courses from which they have not officially withdrawn. Instructors report the last known date of attendance as the student's "unofficial withdrawal date."

## Adding and Dropping Courses

After the official registration period is over, students may make adjustments in their schedules through the process of adding and/or dropping courses. Courses dropped through the 14th calendar day of sessions seven weeks or longer or the 7th calendar day of sessions shorter than seven weeks will not be shown on the student's permanent record. Courses dropped after these days will be shown on the permanent record with withdrawal grades of "W". A student may drop any course or courses up through the last day to drop specified in the University Calendar for that session. Requests for exceptions must be made by the end of the next regular term following the term in which the grade was assigned, and normally only as part of a request for withdrawal from the University. Exceptions are made only by the dean in the college in which the student is earning a degree, or by the dean's designee, and only on the basis of such extenuating circumstances as serious personal illness and relocation because of employment. To stop attending a class without officially dropping the course incurs the grade of "F".

A course may be added late only upon permission of the dean or designee in the college of the student's major, or the Academic Counseling Center for undeclared students. The student must also have the written permission of the course instructor.

## Late Registration Policy

The University of Memphis allows late registration for a short period of time after the Regular Registration period has ended. The dates and deadlines vary by semester and can be determined by consulting the appropriate semester within the "Dates & Deadlines" calendar of the University's academic calendar. This policy only applies to students whose Academic Status is Good Standing or Academic Warning.

Students on Academic Probation, transferring on Probation, or returning from Academic Suspension, who are admitted to the University of Memphis but have not enrolled in classes, must be registered for classes prior to the first day of class. Research on the impact of registering late for classes has generally concluded that late registrants have higher course withdrawal rates, lower grade point averages, and lower retention rates. In an effort to retain students, improve academic success, and decrease the number of students placed on Academic Suspension, the University of Memphis recognizes that registering before classes begin is essential to promoting those goals.

## Withdrawal From University

Any student who wishes to officially withdraw from the University may do so on the web, or in person through the Office of the Registrar in Student and Faculty Services, room 003, Wilder Tower. Failure to officially withdraw will result in grades of "F" for the courses in which the student is enrolled.

NOTE: Withdrawal is not permitted beyond the last day to withdraw specified in the University Calendar for that term or session. Requests for exceptions must be made by the end of the next regular term following the term in which the grade was assigned.

Exceptions are made to this policy only in cases of such extreme circumstances as serious personal illness and relocation because of employment. Withdrawal requests after the deadline should be filed in the dean's office of the student's major college or the Academic Counseling Center for students with no declared major.

## Enrollment Transactions

Enrollment transactions include registration, adding and dropping courses, and withdrawing from the university. The official date shall be the date that the request is submitted to the Office of the Registrar, subject to the final review and approval of the Vice Provost for Enrollment Services. If the final review reveals any apparent violation of the University's academic regulations and/or contractual relationships between the University and the student, the Vice Provost for Enrollment Services has the authority to suspend the transaction pending joint review with the college dean, the department chair, and the student's academic advisor. If the joint review verifies the legitimacy of the transaction, the official date will be that originally established. If the joint review culminates in a finding that academic regulations and/or contractual relationships have been violated, the entire transaction may be permanently invalidated.

## Classification of Students

Classification of students is based on the number of college level credit hours earned as shown in the following table.

Classification	Semester Hours
Freshman	0-29
Sophomore	30-59
Junior	60-89
Senior	90 or more
Special	Students not working on a degree

In order to avoid a possible delay in graduation, students who have completed the required number of hours to be classified as juniors but who have not completed their basic requirements in the Lower Division should schedule these uncompleted requirements during the first semester in which such courses are available.

## Credit Hours, Full-Time Classification, and Maximum Load

The unit of credit at the University of Memphis is the semester hour. A semester hour is defined as the credit earned for the successful completion of one hour per week in class for one semester; or two to three hours per week of laboratory for one semester. (A course which gives three semester hours credit will normally meet for three lecture or recitation hours per week, or for two lecture or recitation hours and two-three laboratory hours per week; or for some other combination of these.) Each lecture hour presupposes a minimum of two hours preparation on the part of the student.

The minimum credit hour load for classification as a full-time student is 12 credit hours for a term (all sessions combined for fall, spring, or summer). The maximum loads are found on the maximum credit load page by clicking [here](#). The maximum credit hour load includes all course enrollments for any term, both at the University of Memphis and any concurrent enrollment at other institutions. It does not include credit by examination. No student is permitted to enroll for correspondence or extension courses while carrying a maximum credit hour load.

## Maximum Credit Hour Load

	Maximum Hours*
Fall or Spring	20.5
Summer	23
<b>Individual Session Maximums</b>	
First or Second Fall or Spring	10
First or Second Summer	9
Full Summer	16

Enrollment of less than 12 hours total (all sessions) for any Fall, Spring, or Summer term is defined as being less than full-time. Maximum hours should not exceed individual session limits or the term maximum.

\* Students must have approval from the appropriate official in their degree-granting college for hours in excess of the maximum.

NOTE: ID card validation of full-time for student activity purposes is based on a minimum of six credit hours per semester and does not necessarily constitute a full-time academic load.

## Academic Standards - Grades and Quality Points

### Grades and Quality Points

At the end of each session, instructors report to the Office of the Registrar the standing of all students in their classes. The grade of a student in any course is determined by class standing and examination, combined in such proportion as the instructor in charge of the course may decide. The instructor's grading scale will be provided to students on the course syllabus.

The instructor's evaluation of the student's work is expressed by the following grades which are converted to quality points for the purpose of averaging grades.

Grade	Quality Points
A+	4.00
A	4.00
A-	3.84
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
F	0.00
W (Withdrawn)	0.00
I (Incomplete)	0.00
NR, None Reported	0.00
NC, No Credit	0.00
*IP, In Progress	0.00
*S, Satisfactory	0.00
*U, Unsatisfactory	0.00
T (see below)	0.00
AU, Audit	0.00
CR, Credit	0.00

\*Grades used to postpone or suspend course completion include "I" (Incomplete), "IP" (In Progress), and "W" (Withdrawn).

Independent studies courses, student teaching, workshops, practical, and internships should be graded "A-F, IP" or "S/U, IP." A grade of "S," "U," or "IP" does not carry any quality points and is not included in computing GPA. All courses for which the student is registered are recorded as passed (with a letter grade), "T", failed, dropped, withdrew, audit, credit, no credit, satisfactory, unsatisfactory, or incomplete. In no case is credit allowed in any course for which the student is not properly registered.

**Grade of Incomplete:** The grade of "I" (Incomplete) may be assigned by the faculty member in any course in which the student is unable to complete the work due to extraordinary events beyond the student's control that are acceptable to the faculty member. The "I" may not be used to extend the term for students who complete the course with an unsatisfactory grade. Unless the student completes the

requirements for removal of "I" within 45 days from the end of the semester or summer term in which it was received (see University Calendar), the "I" will be changed to "F," whether or not the student is enrolled. The faculty member, with the approval of the department chair, may grant up to a 45-day extension if sufficient extenuating circumstances exist. At the end of the extension period, the "I" will automatically revert to "F" if the student has not completed the requirements. The student will be certified for graduation only when all requirements are met, including the removal of "I" grades. For students who have an "I" in a course required to fulfill degree requirements in the semester in which they expect to graduate, the certification process and graduation will automatically be deferred to the next term.

**In Progress:** In courses with "In Progress" (IP) grading, faculty members may assign "IP" to extend the time permitted for completion of research or course requirements. A student awarded an "IP" grade must re-enroll in the course for the same number of hours to complete the work. The final grade will be submitted by the faculty member at the end of the term in which the work is completed. This should be the semester following the "IP" grade.

**Grade Changes:** Grades properly issued in a course by the faculty member of record will not be altered except when an error was made in computation or reporting or as a result of a formal grade appeal. A grade other than "I" may not be changed as a result of additional work after a grade has been submitted to the Office of the Registrar. The Grade Appeals procedure is described below.

**"T" Grade:** The "T" grade allows students to complete independent studies courses in variable time periods that might exceed a regular enrollment period. The following procedure governs the use of the "T" grade:

1. Prior to the registration period, the faculty member obtains approval of the department chair and dean to use the "T" grade in a course(s).
2. The dean notifies the Office of the Registrar of courses for which the "T" grade may be awarded.
3. At the end of the regular term, the faculty member has the following options:
  - a. Award grades A-F.
  - b. Award an "I" grade if the faculty member feels that the work can be completed in 45 days. (If an "I" grade is awarded, a roster with the student's name on it will be sent to the faculty member during the 45-day period. The faculty member must record either "A" to "F" for the "T" grade to prevent an automatic assignment of "F.")
  - c. Award a "T" grade. If the "T" grade is awarded, the student must re-register for the course in order to earn credit. The "T" grade is not used in the computation of GPA.

## Grade Reports

Current semester grades may be obtained on Student Self Service. Grades are normally available by the Thursday after the last day of the exam period for the session.

## Withholding of Grade Reports

The University is required by State law to withhold grade reports, transcripts and diplomas from students who have outstanding financial obligations to the University. When financial obligations have been resolved, students may obtain their grades on Student Self Service.

## Repetition of Courses

A student may repeat most courses in an attempt to improve the grade previously earned. There are some courses that may not be repeated for this purpose. Information concerning these courses may be obtained from the office of the chair of the department in which the course is offered. In some degree and major programs, there are restrictions on course repetitions even after drops or withdrawals. The student should always check with the major advisor before enrolling in a course a second or subsequent time(s).

The University is not obligated to allow substitutes for repetition of courses which have been deleted from the curriculum. Credit by examination may not be used for the purpose of improving a grade previously earned in a course taken for credit.

Grades earned in the second and each subsequent attempt will count towards the student's GPA. However, only earned hours from the final attempt are counted in the cumulative earned hours.

A student may not attempt the same course more than three times. Exceptions to this policy will be granted only on appeal to the dean of the college in which the course is offered.

The record will continue to reflect grades for all attempts of repeated courses with the appropriate repeat notations.

**Courses repeated after a degree is awarded may not be used to replace grades earned prior to the awarding of the degree.**

The Office of the Registrar's website gives detail information on how GPA and earned hours are computed on courses that have been repeated. This page can be accessed [here](#).

## Audit Courses

Students who are admitted to the University of Memphis may register to audit a course with the prior approval of the instructor and the department chair. Students enrolling on an audit basis do not receive academic credit for that course. Particularly in high-demand courses, departments should make sure that students who need these courses for degree credit can be accommodated before they issue permits for audits. Audits should not be used simply as a vehicle for obtaining access to laboratory or studio facilities.

Auditors are not required to take examinations and do not receive a regular letter grade. There should be a precise agreement between the student and the instructor as to the extent and nature of the student participation in the course, including class discussions, projects, and readings. Students auditing a course will receive "AU" (Audit) on the transcript only if they have attended regularly and participated according to the prior agreement with the instructor.

A student may not change from a grade point to an audit or from an audit to a grade point basis after the last day to add classes for that session. Any questions concerning this policy should be referred to the colleges.

Fees for audits will be assessed on the same basis as fees for credit courses.

## Credit/No-Credit Courses

The University, wishing to encourage students to broaden their range of interest without jeopardizing their grades, allows students who have earned at least 60 semester hours with a minimum grade point average of 3.0 to enroll in credit/no-credit courses. For this purpose, students may take up to 8 hours of coursework on a credit/no credit basis provided that these courses are unrestricted electives. Specifically excluded are general education, college, major and degree requirements and requirements for a minor. A student taking a course on a credit/no-credit basis must meet the prerequisites for that course as set forth in the Catalog, or have permission of the instructor.

- Neither a credit nor a no-credit grade is counted in a student's grade point average, but, like all other grades, is entered on the permanent record.
- Credit (CR) grade is given for "C-" or better work on the traditional grading scale and no-credit (NC) is given for less than "C-" work.
- The student only receives credit in the course if credit (C- or better) is received.
- A student may not repeat a course for credit/no-credit if the student received a conventional grade (A-F or S).

Students who transfer from one college to another should be aware that credit/no-credit hours may be accepted in one college and not in another. In every instance, approval to register for a course on a credit/no-credit basis must be obtained from the advisor and the dean of the student's degree-granting college prior to registration for that class.

With approval, a student who registers for a course on a credit/no-credit basis may change the registration to a letter grade point basis only during the add period, and a student who registers for a course on a letter grade point basis may change the registration to a credit/no-credit basis only during the add period for the term or session of the course. The student who successfully completes a credit/no-credit course will receive the appropriate number of hours as credit toward graduation. These hours will not be used in the computation of the grade point average.

## Undergraduate Grade Appeal Procedure

### Purpose of the Undergraduate Grade Appeals Procedure

The responsibility for evaluating student work and assigning grades lies with the instructor of the course. The purpose of the grade appeal procedure is to provide a review process 1) for a student to understand the reasons why the grade was assigned, 2) for the instructor to become aware of and correct possible errors, 3) for appropriate supervisors at the department and college level to review the basis on which a grade has been awarded and to correct cases in which a grade is determined to have been assigned based on

arbitrary or capricious action, or other reasons not related to academic performance. If, after departmental and college review, the grade is still in dispute, an appeal may be submitted to the Undergraduate Grade Appeals Committee, which consists of faculty and student representatives, for final resolution.

In all cases of a disputed grade, the student has burden of proof that the grade assigned was not appropriate. If the case has not been resolved at the student/instructor level, then the student should submit a written petition that would include a copy of the syllabus along with copies of any tests, quizzes, assignments or other written work completed and graded as part of the class requirements to the appropriate step of review. At each step of further review, copies of any previously submitted materials and any written responses to those petitions should be included.

It is important to distinguish grounds for grade appeal from questions about quality of instruction. Successful grade appeals should be based on evidence that the student performed at a level sufficient to warrant a different grade. It is important for students to bring to the instructor's and the department's attention perceived deficiencies in instruction, but these by themselves do not normally warrant a change in grade. For a successful grade appeal, the student should be able to show, for example, not that the student could have earned a grade of "B" under different circumstances, but rather that the student actually did earn a grade of "B" according to the standards set out on the syllabus for that course, but was assigned a lower grade. If, in the opinion, of the department or the college, deficiencies in instruction are so grave as to warrant an alternative accommodation, then the proper remedy will normally involve alternative assignments or examinations to allow the student the opportunity to demonstrate the appropriate level of competency in that area to earn a different grade than the grade originally assigned. The decision about these cases should be made at the departmental or college level. In disputed cases where the appeal is based primarily upon perceived quality of instruction, the Undergraduate Grade Appeals Committee has the option of referring the case directly to the Vice Provost for Undergraduate Programs.

## Procedures

A student wishing to appeal a grade must follow Steps 1-4 listed below. (The deadlines listed below apply to the dates when classes are in session during the fall or spring semesters.) If a student fails to observe the deadlines, the decision made in the previous step will be final. If a department or college fails to respond to the student's complaint within the deadline, the student should contact the Office of the Vice Provost for Undergraduate Programs. The deadline for filing the appeal should be extended appropriately to ensure that the student retains the opportunity to pursue the appeal at the next step. All correspondence and records will be retained in the office in which the complaint is resolved.

**Step 1:** The student should first consult with the instructor, at the latest within two weeks of the beginning of the subsequent fall or spring semester, in an effort to provide a satisfactory resolution of the complaint. If the student cannot schedule a meeting with the instructor, the student may contact the department chair, who will schedule the meeting between the student and the instructor. The only exception to this step is the case in which the instructor is unavailable. In this case, the student may proceed directly to Step 2.

**Step 2:** If the complaint is not resolved in Step 1, the student may present the complaint in writing by the end of the third week in the semester to the chair of the department in which the course was offered. Included in the petition the student should attach the appropriate materials described above, and if available, the instructor's written explanation for the assigned grade. The department chair will attempt to resolve the complaint in consultation with the instructor and the student. The department chair will provide a written response to the student within two weeks from the time the written complaint has been received. If the department chair was the instructor of the course, the student may proceed directly to Step 3.

**Step 3:** If the complaint has not been resolved at the departmental level, the student may appeal further by presenting a written petition to the dean of the college in which the course was offered, along with a copy of the materials presented at the previous stage and any written responses received from the department. At the latest, this petition should be presented within one week after the departmental response. Within two weeks of the time the complaint was received, the dean may use any resources available to resolve the conflict.

If the dean finds that the request does not have merit, the dean shall notify the student in writing, with copies sent to the instructor and the department chair. If the dean and the department chair agree that the grade should be changed, the dean shall be empowered to change the grade without the instructor's consent. Either the student or the instructor may appeal this decision in Step 4. If the dean and the department chair do not agree, the dean shall present his or her view in writing to the student, with copies to the instructor and the department chair, so that the student may include that information in an appeal to the Undergraduate Grade Appeals Committee for final resolution of the complaint.

**Step 4:** If the complaint has not been resolved through the previous steps, the student may present a grade appeal petition addressed directly to the Undergraduate Grade Appeals Committee through the Office of the Vice Provost for Undergraduate Programs. Copies of written materials and petitions presented at the previous steps, along with any written responses received from the department or the college, must be included with the petition at the time of submission. The deadline for submission of a petition is March 15 for grades awarded during the previous fall term, and October 15 for grades awarded during the previous spring or summer terms. (The Grade Appeals Committee does not meet during summer months.) The Office of the Vice Provost for Undergraduate Programs will forward the petition along with the attached materials to the chair of the Undergraduate Grade Appeals Committee, who will distribute copies to the members of the Committee.

The Committee members shall review the petition and the attached materials and then forward their recommendation to the chair of the Committee about whether a hearing is warranted in this case. If a majority of the Committee does not vote that the case merits a hearing, the grade stands as issued. If a majority of the Committee votes in favor of a hearing, the chair of the Committee shall inform the student and the instructor, and shall arrange a hearing to be attended by the student, the instructor, and the members of the Undergraduate Grade Appeals Committee or their designated alternates. Copies of the Committee's decision for the hearing shall be sent to the department chair and dean of the college.

Prior to the hearing, the instructor should be given a copy of the student's petition and supporting materials. If members of the Committee feel that additional factual information is needed prior to or after the hearing to render a decision, the chair of the Committee should inform the Office of the Vice Provost for Undergraduate Programs of that request in writing, and that office should make every effort to provide that information in writing to the Committee. At the hearing, first the student and then the instructor will each have the opportunity to present their cases orally and to present any other written materials they deem appropriate. The Committee members shall have the opportunity to ask questions to both the student and instructor. At the end of the meeting, the student and then the instructor shall be given the opportunity for brief closing statements.

The chair of the Committee should inform the student, the instructor, the department chair, the college, and the Office of the Vice Provost for Undergraduate Programs of the Committee's decision in writing within one week of the hearing. If a majority of the Committee agrees that the grade should be changed, the Office of the Vice Provost for Undergraduate Programs will notify Student Records of the grade change. Otherwise the grade shall remain as recorded. The decision of the Undergraduate Grade Appeals Committee shall be final.

The Undergraduate Grade Appeals Committee shall be composed of seven members and seven alternates constituted as follows:

A chair designated by the Vice Provost for Undergraduate Programs, a faculty member and alternate designated by the dean of the college involved, two faculty members and two alternates designated by the Faculty Senate, one student and one alternate designated by the college, two students and two alternates selected through the Student Government Association.

Although the primary responsibility of the Committee is to review grade appeals and assign the appropriate grade in cases where the appeal is upheld, the Committee shall also report any findings of discrimination or prejudice to the Office of the Vice Provost for Undergraduate Programs for further consideration and possible action.

## Computing GPA

Computation of a student's college-level undergraduate grade point average includes all courses attempted except credit/no-credit, audit, incomplete, developmental, and satisfactory/unsatisfactory courses and "T" grades. As an example: a student carrying five three-semester-hour courses for a total of 15 semester hours makes the following grades: A, B, C, T, F, thus accumulating grade points in the amount of 12, 9, 6, 0, 0, for a total of 27. To compute the grade point average, divide the number of quality hours (except "T" grade) (12) into the grade points earned (27) for an average of 2.25.

The Office of the Registrar's website gives detail information on how GPA and earned hours are computed on courses that have been repeated. This page can be accessed here.

**Graduation: To receive a bachelor's degree from any of the colleges in the University, students must have an institution grade point average and an overall\* grade point average of at least 2.00.**

\*Until Summer 2015, the overall GPA will reflect all college-level coursework-U of M and transfer. Beginning Summer 2015, the overall GPA will reflect all college-level work-U of M and any transfer coursework processed prior to Summer 2015; however, the overall GPA will reflect ONLY U OF M coursework for those students whose transfer credit is processed Summer 2015 and later.

NOTE: Beginning Summer 2015, a Tennessee Board of Regents' state-wide policy on transfer credit and GPA calculations takes effect. Beginning Summer 2015, transfer credit will be reflected in earned hours, but will no longer apply to the overall GPA (used to determine undergraduate graduation and athletic eligibility) or to the overall combined GPA (used to determine academic standing, financial aid, and scholarship eligibility, except for HOPE):

1. For New Transfer students admitted Summer 2015 and later, no transfer credit will count in the overall or the overall combined GPA.
2. For Readmitted students readmitted Summer 2015 and later, no transfer credit taken since last attending the U of M will count in the overall or the overall combined GPA. Any transfer work previously processed will continue to be reflected in the GPAs.
3. For Continuing students, no transfer credit submitted to and received by the U of M Summer 2015 or later will count in the overall or the overall combined GPA. Any transfer work previously processed will continue to be reflected in the GPAs.

## Academic Fresh Start

"Academic Fresh Start" is a plan of academic forgiveness which allows undergraduate students who previously experienced academic difficulty to improve their academic record upon returning to college after an extended absence. The Academic Fresh Start allows eligible students to resume study without being penalized for past unsatisfactory scholarship and signals the initiation of a new grade point average (GPA).

### Student Requirements

To be considered eligible for an Academic Fresh Start, a student must:

1. Have been separated from all regionally accredited collegiate institutions for at least four (4) consecutive calendar years immediately preceding the first term of enrollment as a transfer student or re-enrollment at the University of Memphis.
2. Be admitted as a degree-seeking student at the University of Memphis.
3. Have an overall combined (cumulative) GPA below 2.50 at the time of application for the Academic Fresh Start.
4. Not have earned an undergraduate degree previously.
5. Submit an Academic Fresh Start application and academic plan to the Center for Academic Retention and Enrichment Services (CARES) within one (1) calendar year from the term of enrollment or re-enrollment at the University of Memphis.

### Terms of Academic Fresh Start

1. *The student may be granted an Academic Fresh Start only once during an undergraduate career. This includes an Academic Fresh Start (or its equivalent) granted at other regionally accredited institutions of higher education.*
2. Other institutions may not honor an Academic Fresh Start granted by the University of Memphis.
3. The student's permanent record (including academic standing) will remain a record of all work attempted; however, the Academic Fresh Start allows for courses previously failed to be excluded from the calculation of the new GPA. Courses with a "D" grade will also be excluded from the calculation when a grade of "C" or better is required in the student's current major. The new GPA and credit hours will reflect courses for which passing grades were earned and retained from the pre-Academic Fresh Start performance.
  - a. Retained grades and credits will be calculated in the new GPA.
  - b. Courses with "D" or "F" grades must be repeated at the University of Memphis when they are required for the student's current major. All remaining courses needed to satisfy the current degree requirements must be completed at the institution.
  - c. The current major will be considered the major the student has selected when the Academic Fresh Start is applied. Courses excluded from the calculation will not be reviewed or reconsidered should the student change majors after receiving the Academic Fresh Start.
  - d. Retained grades and credits will be applied toward major and degree requirements in effect at the time the Academic Fresh Start is granted to the student. Specific academic program and degree regulations must also be met.
4. Academic Fresh Start recipients who did not complete a college-level English or mathematics course must meet current academic assessment and placement program requirements before enrollment in these courses is permitted. Students may be required to complete the COMPASS exam to determine eligibility for these courses. Previously satisfied assessment and placement program requirements (including COMPASS) will not be forfeited.
5. The Academic Fresh Start is awarded independent of financial aid regulations. Federal, state and institutional financial aid requirements at the time of application will apply. Billing and debt requirements associated with previous enrollment are not intended to be resolved with the granting of an Academic Fresh Start. Therefore, an Academic Fresh Start applicant should consult the Office of Financial Aid, Bursar's Office, Scholarship Office, and/or Veterans Educational Benefits & Certification in the Office of Registrar at the University of Memphis for proper guidance regarding federal, state, and institutional financial aid programs; collection of student fees and charges; payment plan options; scholarship eligibility; and/or educational benefits.
6. Academic Fresh Start requires approval by the appropriate college dean or designee.
7. Academic Fresh Start will be formally applied after the census enrollment date at the University of Memphis.
8. The student's University of Memphis transcript will note that an Academic Fresh Start was granted and the effective date.

## **Center for Academic Retention and Enrichment Services**

The academic progress of students at the University of Memphis is monitored at the conclusion of each term enrolled to determine their academic status. Students' overall combined grade point average *AND* term grade point average are considered in determining status. There are four progressive levels of academic status:

1. Good Standing
2. Academic Warning
3. Academic Probation
4. Academic Suspension



## Good Standing

Students are in Good Standing at the University of Memphis unless placed on Academic Warning, Academic Probation or Academic Suspension.

If a student has never been on Academic Warning, Academic Probation or Academic Suspension...	⇒	The student remains in Good Standing as long as the overall combined GPA is 2.00 or above <i>AND</i> the term GPA is not lower than 1.00.
If a student has been on Academic Warning, Academic Probation or Academic Suspension...	⇒	The student is expected to maintain a minimum overall combined GPA of 2.00 <i>AND</i> a minimum term GPA of 2.00 in order to remain in good standing.

## Academic Warning

Students can be placed on Academic Warning **ONLY ONCE** during their enrollment at the University of Memphis. After completing seven (7) hours of coursework, students will be placed on Academic Warning when their overall combined GPA is below 2.00 **OR** the term GPA is below 1.00. Once students receive an Academic Warning, they must maintain Good Standing or they will be placed on Academic Probation or Academic Suspension.

Students who have earned 0-29 semester hours and are placed on Academic Warning must:

1. Successfully complete a workshop and pass the related quiz;
2. Meet with an Academic Coach every other week in the following semester of enrollment; and
3. Submit a Conditional Enrollment Agreement with the Center for Academic Retention and Enrichment Services, and satisfy the requirements in the Agreement.

Students who have earned 30 or more semester hours and are placed on Academic Warning must:

1. Successfully complete an online workshop and pass the related quiz; and
2. Submit a Conditional Enrollment Agreement with the Center for Academic Retention and Enrichment Services, and satisfy the requirements in the agreement.

The Academic Warning workshop is available online at <https://academic-s.memphis.edu/ew>. Failure to satisfy these requirements may lead to administrative withdrawal from all classes for any future terms.

## Academic Probation

Any student who has ever been placed on Academic Warning status will be placed on Academic Probation if:

- Their overall combined GPA is below 2.00, **OR**
- The term GPA is below 2.00.

**NOTE:** Students who have regained Good Standing after an Academic Warning are placed on Academic Probation, if, in any subsequent term, their combined GPA falls below a 2.00 **OR** the term GPA below 2.00.

1. *First Academic Probation:* All students placed on Academic Probation for the first time will be required to enroll in and complete ACAD 2200: Student Success Seminar (1 semester hour) in the following semester of enrollment.
2. *Subsequent/Continuing Probation:* Students will remain on Academic Probation if the term GPA is 2.00 or higher but the overall combined GPA remains below 2.00. Students who are placed on Academic Probation more than one time must complete a Conditional Enrollment Agreement with the Center for Academic Retention and Enrichment Services (CARES) and meet weekly with a CARES counselor.

Students on Academic Probation will be required to have an overall combined GPA of at least 2.00 **OR** a term GPA of at least 2.00 in order to continue enrollment at the University of Memphis. Failure to satisfy these requirements may lead to administrative withdrawal from all classes for any future terms.

## Academic Suspension

Students on Academic Probation will be placed on Academic Suspension in the following term if the overall combined GPA is below 2.00 AND the term GPA is below 2.00.

Students on Academic Suspension can apply for readmission only after the following minimum periods:

- For the first Academic Suspension, one regular term (fall or spring)
- For the second Academic Suspension, one calendar year

After a second Academic Suspension, a student may be ineligible for further enrollment at the University of Memphis.

Students on academic suspension can apply for readmission only after the following **minimum** periods:

1. For the first suspension, one regular term (fall or spring).
2. For the second suspension, one calendar year.

After a second suspension, a student may be ineligible for further enrollment at the University of Memphis.

Students on Academic Suspension who apply for readmission must participate in a readmission interview with a CARES Counselor.

Coursework taken at another accredited college or university will be used in determining eligibility for readmission. Students who left the university on Academic Suspension must fulfill all previously attempted high school deficiencies and remedial and developmental coursework requirements before they will be considered for readmission.

Students readmitted after Academic Suspension must complete a Conditional Enrollment Agreement, meet weekly with a CARES counselor, and follow all requirements established by the Center for Academic Retention and Enrichment Services.

Failure to follow these requirements may lead to administrative withdrawal from all classes.

*The Center for Academic Retention and Enrichment Services, 500 Wilder Tower, is responsible for the administration of this policy.*

## Recognition of Academic Performance

The University of Memphis recognizes outstanding academic performance in a variety of ways. In addition to those listed below, there are other honors and awards listed in the descriptions of the various honors programs.

### The Dean's List

The Dean's List is composed of those students who have 12 or more earned hours in the fall or spring semesters with a minimum grade point average of 3.5 for that semester.

## Graduation With Distinction

Students who intend to achieve Graduation with Distinction must do the following:

1. Fulfill all University of Memphis graduation requirements.
2. Earn the following minimum grade point average on both their U of M and inclusive\* GPA to achieve the listed designations:
  - 3.2500-3.4999 Cum Laude
  - 3.5000-3.7999 Magna Cum Laude
  - 3.8000-4.0000 Summa Cum Laude

\*Inclusive GPA refers to the combination of the student's U of M GPA and the GPA from college level transfer courses. In cases where the student's U of M GPA and the inclusive GPA indicate different distinctions, the student will receive the lower of the two distinctions.

The actual conferral of Graduation with Distinction cannot be made until the student's U of M and inclusive GPA has been certified by the College/School. Transitional Academic Studies courses (DSP) are not considered in calculating eligibility for Graduation with

Distinction. College level courses used to satisfy high school deficiencies will be considered in the computations to determine eligibility for Graduation with Distinction.

## Transfer Credit in the GPA

Beginning Summer 2015, transfer credit will be reflected in earned hours, but will no longer apply to the overall GPA (used to determine undergraduate graduation and athletic eligibility) or to the overall combined GPA (used to determine academic standing, financial aid, and scholarship eligibility, except for HOPE):

1. For New Transfer students admitted Summer 2015 and later, no transfer credit will count in GPA.
2. For Readmitted students readmitted Summer 2015 and later, no transfer credit taken since last attending the U of M will count in the GPA. Any transfer work previously processed will continue to be reflected in the GPA.
3. For Continuing students, no transfer credit submitted to and received by the U of M Summer 2015 or later will count in the GPA. Any transfer work previously processed will continue to be reflected in the GPA.

## Privacy Rights of Parents and Students

The [Family Educational Rights and Privacy Act of 1974](#), with which the University complies fully, is designed to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. Students also have the right to file complaints with The Family Educational Rights and Privacy Act Office (FERPA) concerning alleged failures by the institution to comply with the Act.

The provisions for the release of information about students and the rights of students and others to have access to the University of Memphis education records are published in their entirety in the University of Memphis Procedure "Privacy of Education Records" which is available in the offices of the Registrar and the University Counsel.

## Credit Transferred from Other Institutions

### 1. 1. Transfer Credit for Previous Instruction

Credit from post-secondary institutions will be granted and applied toward degree requirements only when it is for courses that are substantially equivalent to those offered at the University of Memphis. Credit not equivalent to courses at the University of Memphis may be posted to the student's record and may be used as elective credit or as determined by the dean of the college from which the student is to graduate. After the student has been approved for admission as a regular undergraduate, the Office of Admissions will evaluate credit for University-wide use. The office of the dean in each college has the authority for determining the use of acceptable credit toward specific degree programs in that college.

The University of Memphis accepts transfer credit for college-level courses taken at accredited institutions of higher education. Student petitions for transfer credit for courses completed at institutions that are not regionally accredited are considered on a case-by-case basis. The student must present a petition in writing to the Office of Admissions at the University of Memphis with a list of courses for which credit is desired. The student must provide transcripts from the institutions, documentation from each course that includes the course content, course level, contact minutes, the standards for assessing student work, and documentation of the academic credentials of the course instructor. Based on an examination of these materials and after consultation with the appropriate academic department or college, the Office of Admissions will review the student's petition and provide confirmation of those courses that have been approved for transfer credit.

### 2. Earning Transfer Credit after Enrollment at the University of Memphis

University of Memphis students considering taking courses at other institutions should consult the transfer [articulation tables](#) to see how the course will transfer to the University of Memphis. All enrolled students must have Section I of the **Transfer Credit Request** completed by the student. For institutions and courses that are not listed on those tables, students must complete Sections I-II of this form before enrolling in the course to find out whether the course will transfer to the University of Memphis and how it will count toward their degree programs. An approved Transfer Credit Request serves as assurance that the course will transfer and how it will count toward the desired requirement. Students do not have any guarantee that courses not listed on the articulation tables will transfer or how they will count toward the students' degrees without an approved Transfer Credit Request form.

Before credit earned at another institution can be transferred and recorded on a permanent academic record, the student must have an official transcript from the institution mailed to the Admissions Office.

The maximum credit hour load allowed for any term includes all course enrollments both at the University of Memphis and any concurrent enrollment at other institutions. (See "[Credit Hours and Maximum Load](#)")

### 3. Transfer Credit for Distance Education

Credit from other institutions for distance education courses taught by independent study, on-line computer instruction, or other methods, is evaluated in the same manner as transfer credit for classroom-based instruction. As with other transfer credit, students enrolled as regular undergraduates must seek prior approval from the dean of the college from which they are to graduate before taking courses to meet degree requirements at the University of Memphis.

## Additional Means of Earning Credit

### 1. Credit for Selected Secondary School Courses

#### a. [Advanced Placement Credit](#)

The University of Memphis participates in the Advanced Placement Program of the College Entrance Examination Board. Appropriate credit is awarded for scores of 3, 4, or 5. Advanced placement credit may also apply to certain university requirements and to major requirements. Information about credit awarded may be obtained from the Admissions Office and the Office of Admissions website.

#### b. [International Baccalaureate Program](#)

The University of Memphis recognizes secondary students' participation in the International Baccalaureate Program and awards college credit for completion of selected courses. To be eligible for credit, students must earn a score of 4 or higher. Information on credit awarded is available in the Admissions Office.

### 2. Credit for Instruction in the Armed Services

An official evaluation of armed services instruction is made after a student is accepted as a regular undergraduate student. Credit awarded for completion of services schools will be governed by recommendations at the baccalaureate level from the current Guide to the Evaluation of Educational Experience in the Armed Services. Military transcripts, for example SMART or AARTS, must be presented to the Office of Admissions. Upon presentation of a copy of the veteran's report of separation (DD Form 214) to the Office of Admissions, six semester hours of health and physical education credit will be awarded. Veterans with less than one year of continuous full-time service who have completed basic training while on active duty will be awarded credit as recommended in the Guide to Evaluation of Educational Experiences in the Armed Services.

### 3. Credit for Non-collegiate Sponsored Instruction

Credit is awarded for non-collegiate sponsored instruction offered by corporations, associations, labor unions, government agencies, and training providers which has been evaluated by the National College Credit Recommendation Service of the American Council of Education and recommended in the current NCCRS guide. The Office of Admissions should be contacted for information.

### 4. Credit by Examination

Credit by examination is awarded based upon standardized examinations and upon examinations administered by departments of the University for specific courses and for placement. Students may not take an examination for credit in a course previously taken for credit, with the exception of lower division transfer courses that the student wishes to validate for upper division credit. Students may, however, take an examination for credit in a course that was audited or in courses at a lower level than a course taken for credit.

#### a. **CLEP and DANTES Standardized Examinations**

The University of Memphis awards credit for standardized examinations of the College-Level Examination Program (CLEP) of the College Board and for standardized examinations of the Defense Activity for Non-Traditional Education Support (DANTES). Credit awarded is based upon credit recommendations and minimum scores recommended by the American Council on Education. CLEP and DANTES credit may also apply to certain University requirements and to major requirements. For information on credit awarded, test dates, and fees, contact the Testing Center.

#### b. **Departmental Examinations**

Almost all courses in the undergraduate curriculum, except for those with laboratory, research, or performance requirements, are available for credit by examination. Students who believe that they have already mastered the material of a particular course offered at the University of Memphis may take a departmentally administered examination for credit in that course.

To apply for credit by examination, a student must be enrolled at the University of Memphis and have a GPA of 2.00 or above. An eligibility form may be obtained in the Office of the Registrar - Records Analysis. Permission to take a credit examination must then be obtained from the chair of the department in which credit is sought and from the dean of the college in which the student is seeking a degree. Students pay \$60 per course, plus \$15 per credit hour in excess of three (3) credit hours per course (see Fees and Charges) prior to taking the exam. To receive credit, the student's examination grade should be the equivalent of a "C" or above. Credit is indicated on the student's record as CR.

#### 5. Upper Division Credit by Validation Examination

Credit for courses at the freshman or sophomore level is transferred as lower division credit even though the content may be equated to University of Memphis upper division (junior/senior) level courses in some cases. In order to receive upper division credit for a lower division course that has an upper division equivalent, the credit must be validated through appropriate departmental examinations, portfolios, or other documentation. Contact the department to see if this option is available, to make application and to obtain information. There is no fee for validation examinations.

#### 6. Credit for Course Placement and Completion

Some departments offer the opportunity to receive credit by course placement and completion for selected courses. Students who receive prior approval from the department chair may enroll in a University of Memphis course at the level for which they feel previous instruction or experience qualifies them. Upon completion of the course, they receive credit for certain sequential courses numbered lower than the one in which they enrolled. Recording of credit for the lower numbered course(s) is contingent upon completion of the higher level course with a minimum grade of "C". Upon completion of the course, approval of the chair of the department and payment of fees are required for credits to be recorded. (See Fees and Charges)

In the Department of Foreign Languages and Literature, students whose first college-level course in a language is 2010 may apply for credit for 1020 in that language. Students whose first college-level course is 2020 may apply for credit for 1020 and 2010 in that language, and those whose first college-level course in a language is a 3xxx course in composition and/or conversation may apply for credit for 1020, 2010, and 2020 in that language.

#### 7. Credit for Experiential Learning by Assessment

Students seeking degrees in the College of Communication and Fine Arts, the College of Education, Health and Human Sciences, and University College, and some programs in the Fogelman College of Business and Economics may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or non-college instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area.

Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures described above. More detailed information about procedures may be obtained from the individual colleges. For fee information, see Fees and Charges.

#### 8. Credit for ACT Test Scores

##### a. **English Composition**

The University of Memphis awards 3 hours of credit for ENGL 1010 - English Composition to students with an ACT English subscore of 29 or above. Students who have previously taken ENGL 1010 and earned a passing or failing grade are not eligible. ACT scores for this credit are valid for 3 years.

##### b. **Mathematics**

The University of Memphis awards 3 hours of credit for MATH 1710 - College Algebra to student with an ACT Math subscore of 29 or above. Students who have previously taken MATH 1710 and earned a passing or failing grade are not eligible. ACT scores for this credit are valid for 2 years.

<http://www.memphis.edu/acc/learning/index.php>

Learning Support at The University of Memphis permits students to enroll in prescribed courses to develop the academic competencies necessary for success in college level courses. Major components of the program include testing and placement in appropriate level courses.

#### **Placement**

Students admitted to the University of Memphis as beginning freshmen will be placed in appropriate English, math, and reading, courses based on ACT subscores that are less than 3 years old.

- Students with ACT reading subscores below 19 are required to enroll in [ACAD 1100](#).

- Students with ACT English subscores below 18 are required to enroll in prescribed English courses.

If students feel they have been misplaced by their ACT subscores in English and reading, they may take the [ACCUPLACER](#) test to attempt to place in a higher level course.

- All students, regardless of their ACT math subscore, are required to take the [ALEKS placement exam](#) for math.

Students without ACT scores will be required to take the [ACCUPLACER](#) placement test to determine if they have the appropriate academic skills to successfully complete college level courses. Depending on the results of this test, students may be required to take one or more prescribed courses. The following regulations regarding placement tests and course enrollment will apply:

[ACCUPLACER](#) testing is required of students whose ACT (SAT) scores are more than 3 years old, transfer students with no college level credit in English, non-degree seeking students before enrollment in English, and students with no ACT/SAT scores.

ALEKS testing is required of transfer students with no college level credit in math, and non-degree seeking students before enrollment in a math course.

Students must successfully complete prescribed course requirements before enrolling in the next level course.

Enrollment in any prescribed course is restricted to students who have been placed by their ACT subscores or who have taken the appropriate placement test. Self-placement without testing is not permitted.

### **ALEKS - Math Placement Exam**

The University of Memphis requires the Math Placement Exam through ALEKS to assess a student's prerequisite knowledge for course placement. ALEKS is a powerful artificial-intelligence based assessment tool that zeros in on the strengths and weaknesses of a student's mathematical knowledge, reports its findings to the student, and then if necessary provides the student with a learning environment for bringing this knowledge up to an appropriate level for course placement.

Please visit the [ALEKS website](#) for more information.

### **Academic Advising**

Students requiring prescribed courses should be advised in the Academic Counseling Center, 212 Wilder Tower.

### **Courses**

Students with ACT reading subscores below 19 are required to enroll in [ACAD 1100](#).

Students with ACT English subscores below 18 are required to enroll in prescribed English courses. Students must check with their advisor to determine which English course is appropriate for them.

Students will be placed in a math course based on the results of the [ALEKS placement exam](#). Students must check with their advisor to determine which college level math course is appropriate for them.

## **Admissions**

The University of Memphis offers equal educational opportunity to all persons without regard to race, religion, sex, creed, color, national origin, or disability. Inquiries about admission to any college of the University should be addressed to the Office of Admissions. This office receives and processes all applications, evaluates credentials, and admits qualified students. Undergraduate students may be admitted at the beginning of any regular or short term.

The University of Memphis encourages all those who feel they can benefit from the educational opportunities offered by the institution to submit an application for admission. Consideration is given to educational background, entrance examination scores, high school grades, any college attendance, and any other special talents and/or special circumstances which may affect the applicant's academic performance.

Certain instructional programs of the University are subject to special admission requirements and are subject to change according to the availability of institutional resources. Students wishing to enter one of these programs of study should check with the appropriate department or division offering the program in order to become familiar with these special requirements. Undergraduate programs with special admission requirements include, but are not limited to, professional degrees in art, music, or theatre (Bachelor of Fine Arts or Bachelor of Music), teacher education, educational services, nursing, and the University College.

Students are encouraged to apply as early as possible. Early admission contributes to better orientation, course planning, class scheduling and financial aid and scholarship consideration. High school students planning to apply as freshmen should submit applications as soon as possible after completion of their junior year. The application for fall is usually available in October of the year preceding the upcoming fall term. The application should be completed and submitted online at <http://apply.memphis.edu>. A [hard-copy \(paper\) application](#) is available for students unable to pay the application fee by credit card or electronic check.

Credentials will be maintained for a 12-month period. After this period, credentials will be destroyed and must be submitted again before an admission decision can be made.

The deadlines for submitting an application for admission are: July 1 for the fall semester, December 1 for the spring semester, and May 1 for the summer session. Although application deadlines are listed above, registration for new students occurs much earlier. For example, new fall students register in June. Applications received after these deadlines may be delayed in processing or processed at the non-degree level.

These regulations are subject to change without notice.

Admission as Degree-seeking Undergraduates

- [First-time Freshman Applicants](#)
- [Transfer Applicants](#)
- [International Students](#)
- [Combination Senior](#)
- [Readmission \(Returning Students\)](#)

## Admission as Non-Degree Undergraduates

Applicants who wish to apply in one of the special categories listed below are encouraged to apply by the same deadlines as stated above. While applications may be accepted until the first day of registration for the term for which the student is applying, no guarantee of admission will be made after the deadline has passed. Special category applicants who have attended other colleges will not have their previous college work evaluated for transfer until they have been approved for admission as regular undergraduates. An applicant who has applied as a degree-seeking undergraduate and was denied admission must generally wait a fall or spring semester or six months before applying for admission at the non-degree level.

Those who are admitted as non-degree students are not required to have an advisor. However, if non-degree students desire an advisor, they are assigned to the Academic Counseling Center for advising. Non-degree undergraduate students may not take more than 18 semester hours of work in a single term nor may they earn more than 24 semester hours total. This limit may be extended if there has been enrollment at another institution since last attending the University of Memphis.

[Applicants with College Degree](#)

[Applicants with Previous College Attendance but No Degree](#)

[Applicants with No Previous College Attendance](#)

## Special Non-Degree Admission Categories

[Concurrent Enrollment Opportunities](#)

[Audit-Only Undergraduate](#)

## Freshman Admission Requirements

### First-time Freshman Applicants

A high school graduate who has no previous college enrollment may be considered for admission as a first-time freshman by completing the application for admission and submitting the following to the Admissions Office:

1. A final transcript of all high school credits: Early decisions can be made by submitting partial transcripts (6th or 7th semester). Transcripts hand delivered by the student are not acceptable for the admissions file. If any courses have been taken for college credit, the institution(s) granting credit must be contacted by the applicant and asked to send an official transcript to the University of Memphis, Office of Admissions. Students who do not present one unit of American History are required to register for the course during their first or second year at the University.

2. The score report of the American College Testing program (ACT) or the Scholastic Aptitude Test (SAT): The score report is a necessary part of the application and the test date should be no more than three years old at the time of enrollment.
3. A non-refundable application fee of \$25.00.
4. Any additional items and information requested in the application materials by the Office of Admissions.

## High School Curriculum Required For Admission

No high school curriculum can assure that a given student will acquire desired learning outcomes; however, the absence of certain components greatly increases the likelihood that the student will not acquire those outcomes and reduces the likelihood that the student will enjoy maximum benefits of a college experience. The justification for colleges' recommending or requiring specific high school units for admission is to reduce the likelihood that a student will be unprepared for effective work in college and to increase maximum benefits a student may enjoy.

The following specific high school units must be included in the minimum admissions requirements at all Tennessee State Board of Regents universities and colleges.

**Students who do not take one or more of these required courses, where they are available, may not be eligible for admission to the University.**

- English (4 units required): Units in this category must address reading and literature, writing, speaking and listening, and principles concerning the English language. Extensive experience in reading and writing should characterize all courses.
- Visual And/Or Performing Arts (1 unit required): Units in this category should include a survey of the arts (visual arts, theater, music, and dance) or active participation in one or more of the arts.
- Mathematics (3 units required): Units in this category must include Algebra I, Algebra II, and geometry or an advanced course with geometry as a major component. Students are recommended to take a fourth unit in computing, advanced mathematics, or statistics. All college freshmen will benefit by having studied mathematics as seniors.
- Natural And Physical Sciences (2 units required): Units in this category must include mathematical skills, fundamental concepts, and some laboratory and field work. At least one unit must address detailed knowledge in the more traditional fields of biology, chemistry, or physics and must include a laboratory.
- Social Studies (1 unit required): For students graduating prior to spring 1993, the unit in this category may include: history, government, geography, economics, sociology, psychology, or anthropology. For students graduating in the spring 1993 or thereafter, this unit must come from the following: modern history, ancient history, world history, world geography, or European history.
- US History (1 unit): This is in addition to the Social Studies requirement.
- Foreign Language (2 units required): Two units in a single foreign language are required in this category.

These stipulated high school units are not intended to specify what the total high school curriculum should be. Secondary schools seek to meet the needs of various student clienteles, one of which is the college-bound student. The stipulations are an attempt to make a strategic application of academic competencies. They reflect the bridge from specific desired learning outcomes to a list of required college admission criteria. That list is composed of high school units presumed most likely to result in the required learning outcomes. For the sake of clarity, one unit constitutes one year of high school study of a given subject.

Applicants who wish to provide additional information regarding special talents or circumstances may do so by contacting the Office of Admissions.

Applicants who are admitted to the University with a foreign language deficiency will need to check with the Center for Academic Retention and Enrichment Services to find out what is necessary to remove the deficiency as soon as possible.

For additional Information for Non-traditional First-time Freshman Applicants including: **GED Applicants** (*under the age of 21*), **Homeschooled Applicants**, **Early Admission Applicants**, **21+ First-time Freshman Applicants** (21 years of age or older w/a high school diploma or GED) [CLICK HERE](#)

## Non-Traditional Freshman Admission Requirements GED Applicants (under the age of 21)

Students who have successfully completed the General Education Development (GED) Test must have official scores sent to the Office of Admissions. GED applicants who apply for admission will be reviewed by the standing internal admissions committee. GED applicants (*under 21 years of age*) must take the national ACT exam or the ACT residual exam (ACT exams used for admission must be less than 3 years old). The minimum GED score that will be considered is 450 (or 45 on exams prior to the revision). GED applicants



must submit a statement of academic and career goals. Emphasis should be placed on experiences that the applicant has had since leaving high school that they believe will make them a successful college student (e.g. military, successful vocational training, etc.).

## Homeschooled Applicants

Graduates of home schools must comply with state law by submitting proof of registration with the local education agency which the child would otherwise attend. This documentation must be submitted in addition to the high school transcript.

The score report of the American College Testing program (ACT) or the Scholastic Aptitude Test (SAT): The score report is a necessary part of the application and the test date should be no more than three years old at the time of enrollment.

Applicants who are offered admission with the enhanced ACT English, reading or math subscores less than 19, or the equivalent on the former ACT, will be required to take special basic/developmental courses to develop academic competencies necessary for success in college level courses. Students without valid ACT/SAT scores and without college level credit in math or English will be required to take the COMPASS test in the appropriate areas. Students who feel they have been misplaced by their ACT/SAT scores are encouraged to take the COMPASS test, which can place them in a higher level course. (See Transitional Academic Studies program description in the Independent Programs section of the Undergraduate Catalog for more details.)

## Early Admission Applicants

Academically outstanding high school juniors who have completed three academic years of high school, accumulating at least 14 units of coursework may be considered for early admission if they have the following:

1. A minimum high school cumulative grade point average (GPA) of 3.5 on a 4.00 scale.
2. A minimum ACT composite score of 26 on the ACT or the equivalent on the former ACT.
3. Written recommendations from high school principal and guidance counselor.
4. An interview with U of M faculty/staff committee selecting early admission students.

In addition, they must agree to enroll in freshman English, and, unless successfully completed in high school, courses in American history and economics.

NOTE: Early admission applicants should also check with their high school for specific graduation requirements.

## 21+ First-time Freshman Applicants (21 years of age or older with a high school diploma or GED)

Student applicants 21 years old or older who apply for admission will be reviewed by the standing internal admissions committee. All student applicants, in this category, must take the COMPASS exam; or the national ACT exam; or the residual ACT exam (ACT exams used for admission must be less than 3 years old). The minimum GED score that will be considered is 450 (or 45 on exams prior to the revision). Applicants must also submit a statement of academic and career goals. Emphasis should be placed on experiences that the applicant has had since leaving high school that they believe will make them a successful college student (e.g. military, successful vocational training, etc.).

## Transfer Admission Requirements

### Transfer Applicants

The University of Memphis welcomes applications from students who have begun college elsewhere.

Transfer Applicants with Less than 24 Credit Hours

Students who are transferring with less than 24 credit hours of college-level coursework must satisfy the following criteria:

1. Meet the requirements of entering [first-time freshmen](#).
2. Have earned a 2.00 GPA (as computed by the University of Memphis) on all attempted college level and developmental or remedial courses.
3. Be in good standing with the college or university previously attended.

Transfer applicants who have been academically dismissed from the last institution they attended but meet the GPA requirements listed above will not be considered for admission until at least one regular semester (fall or spring) has elapsed. After this period, these applicants must submit a new application (no additional fee required).

Students who meet the high school requirements, but do not have a 2.00 GPA on attempted college coursework may be considered for admission. These applicants will be reviewed by the Center for Academic Retention and Enrichment Services. Students' major, types of courses taken, and pattern of progress as well as high school records and standardized test scores, will be considered in the admissions process.

## Transfer Applicants with 24 Credit Hours or More

Students who are transferring with 24 credit hours of college-level coursework or more must meet one of the following admissions options:

1. Have earned an overall combined 2.00 GPA (as computed by the University of Memphis) on all transfer hours attempted.
 

**NOTE:** Students who have failed any developmental or remedial coursework will not be eligible for admission until they have completed these courses with a passing grade.
2. Have earned an associate degree in a University Parallel or University Transfer program from a regionally accredited community, junior, or senior college with an overall combined 2.00 GPA (as computed by the University of Memphis).

## Tennessee Transfer Pathways

Students who begin at one of the Tennessee Board of Regents (TBR) Community Colleges have the ability to transfer to the University of Memphis with assurances in how their credits will transfer. By completing the Associates Degree (AA or AS) at one of the 19 Community Colleges, they can select one of the nearly [30 Tennessee Transfer Pathway \(TTP\) programs at the University of Memphis](#). For more information, [CLICK HERE](#).

- [Home](#)
- [UGCatalog](#)
- [Services to Students](#)
- International Students

## International Undergraduate Admission Requirements

### International Undergraduate Applicants

The University of Memphis believes that the presence of a balanced representation of international students on campus will enrich the educational environment of all students. Therefore, the University is authorized under federal law to enroll non-immigrant, alien students on "F-1" and "J-1" student visas. Applicants must file complete credentials before May 1 for fall admission; September 15 for spring admission; or February 1 for summer admission. Complete credentials include all the documents listed below.

The international application should be completed and submitted online at <http://apply.memphis.edu>. All additional required credentials should be sent to the Office of Admissions, the University of Memphis, 101 Wilder Tower, Memphis, Tennessee, 38152-3370, U.S.A. Applications and fees received after the stated deadlines will be returned.

A non-refundable international application and processing fee of \$50 (fifty dollars) is required of every international applicant, unless previously paid. Preferred payment of the application fee is by credit card. Applicants unable to pay by credit card should mail a check or money order, made payable to the University of Memphis. Applications will only be processed after the application fee is received.

International applicants should contact the [Office of Admissions](#) for information on application procedures, qualifications, and admission to the University. Since there is considerable variation among educational systems throughout the world, international applicants will be selected on a competitive basis, after meeting the minimum standards of admission using examination scores, grade point average, relevance of academic background to intended major field of study and recommendations from the [World Education Services](#) or any credentialing service who is a member of the [National Association of Credential Evaluation Services](#). More information may be found at <http://www.naces.org/>. The University often receives more applications than can be approved; therefore, admission cannot be granted to all applicants who meet only the minimum requirements.

All transcripts, test scores, and other credentials must be accompanied by an official English translation of these documents and must be on file in the Office of Admissions by the stated deadlines before the beginning of registration for the intended term of entry.

## Admission Requirements for International Undergraduate Applicants

1. **Required Transcripts:** Applicants must arrange for the Office of Admissions to receive official copies of academic records of the applicant's attendance at secondary school, college, university, and professional institutions of learning. These transcripts must be sent directly from the high school or college to the University of Memphis. An exception is made for those who hold the bachelor's degree or its equivalent in that they need not send their secondary school records. Records should list the subjects studied and the grade, mark, or other evidence that each individual subject was completed to the satisfaction of the authorities in charge. If it is impossible for the school to send us an official copy, copies certified by an official at the American Embassy or a known world organization may be acceptable. All records must be in English. Since certificates and records filed for examination are not ordinarily returned, applicants should send certified copies if the documents in question cannot be easily replaced.
2. **Required Test of All Applicants:** All applicants whose native language is not English must supply results of the [Test of English as a Foreign Language TOEFL](#) or its equivalent. The minimum overall TOEFL score considered for undergraduate admission to the University of Memphis is 61 on the internet-based test (iBT) or 500 on the paper-based test (PBT). TOEFL information may be obtained by writing: TOEFL, Educational Testing Service, Princeton, New Jersey, 08540, U.S.A. All test scores must be sent directly from the testing agency to the University of Memphis.
3. **Freshman Test Required:** Applicants to the first year undergraduate level must submit scores on the [Scholastic Aptitude Test \(SAT\)](#) or the [American College Testing Program \(ACT\)](#). These tests are available only in English. For information on the SAT, applicants may write to College Entrance Examination Board, Box 592, Princeton, New Jersey, 08540, U.S.A. For information on the ACT, applicants may write to American College Testing Program, P.O. Box 414, Iowa City, Iowa, 52243, U.S.A. All test scores must be sent directly from the testing agency to the University of Memphis.
4. **Financial Statement:** U.S. visa regulations require that certification of admission be based on both academic acceptance and satisfactory evidence of adequate funds to meet the expenses involved in the student's program of study. Applicants for an "F-1" student visa must supply, on the Affidavit of Support form provided by the university, sufficient evidence of financial support for themselves and all members of their families who will accompany them to Memphis. This requires that applicants certify that their intent is to attend the university full time and that no employment will be required.
5. **Health Certificate Required:** Each international student, within 30 days from the first day of classes, must submit a certificate from a licensed U.S. physician or other qualified U.S. medical authority verifying freedom from tuberculosis. Failure to do so shall result in denial of enrollment. In the event that the student either has tuberculosis or has potential tuberculosis requiring medical treatment, continued enrollment will be conditioned upon the determination by a licensed U.S. physician that such enrollment does not present a risk to others and upon the student's compliance with any prescribed medical treatment program.

In order to enroll, all international students born after January, 1957, must prove that they have been inoculated with the live measles vaccine (MMR) since January, 1980. Exceptions are made for students who are pregnant or allergic to the vaccine.

6. All international students must purchase a [health insurance policy](#) through the university or provide evidence of government sponsored health insurance before they are allowed to enroll.
7. International students will not normally be allowed to register as transient students (those regularly enrolled and in good standing at another institution who desire to attend the University of Memphis for only a limited period of time). During summer sessions, exceptions may be granted only in cases where a student has an outstanding academic record and unusual circumstances are present.
8. International students who wish to apply for readmission to the University must meet the deadlines stated above.
9. International students must become familiar with the regulations of the [U.S. Citizenship and Immigration Services \(USCIS\)](#) and assume responsibility for complying with these regulations.
10. Prior to the first day of class, international students should be prepared to attend a half-day mandatory new student orientation hosted by the International Students Office. Additionally, all international students must report to the [International Students Office](#) with their passport and I-20 for check-in before the first day of classes.

## Combination Senior Admission Requirements

An undergraduate student with a total cumulative GPA of at least 3.25, who has filed with his or her graduation analyst a plan for completing the bachelor's degree within two semesters, with the approval of the college director of graduate studies, may request to enroll concurrently in undergraduate and selected graduate courses. Students may earn up to 12 hours of graduate credit while enrolled as a Combination Senior. Approval to register for graduate credit does not imply approval for admission into a graduate program at the University or that the credit earned will be accepted towards a graduate degree. After the bachelor's degree is awarded, a Combination Senior may be admitted to a graduate degree program. Courses taken for graduate credit may not be used for both the baccalaureate and graduate degrees.

## Readmission Requirements

### Readmission (Returning Students)

Former undergraduate students who wish to return to the University at the same level as when they previously attended and have missed a fall or spring term, must submit an application for readmission. The application should be completed and submitted online at <http://apply.memphis.edu>. If the student has enrolled at another institution since last attending the University of Memphis, a transcript must be forwarded to the Admissions Office. An applicant will receive favorable consideration only if eligible for readmission under all University regulations, including the grade point average (GPA) for [transfer students](#). (NOTE: International students who wish to apply for readmission to the University must meet the deadlines for new admission for [international students](#).)

## Non-Degree Seeking Admission Requirements

### Applicants with College Degree

An applicant who has (1) earned a baccalaureate degree from an accredited institution, (2) who desires to take only a limited number of undergraduate courses, and (3) who is not presently working toward a degree at the University of Memphis may be admitted in this category.

### Applicants with Previous College Attendance but No Degree

A student currently or previously enrolled in any accredited college or university may be admitted in this category.

NOTE: Transient students (those regularly enrolled and in good standing at another institution who desire to attend the University of Memphis for only a limited period of time) should apply at the non-degree level.

### Applicants with No Previous College Attendance

An applicant who has graduated from high school or the equivalent and has never attended another college or university may be admitted in this category with the following conditions:

1. Students are limited to earning a total of 24 credit hours while in the non degree category.
2. Applicants who are offered admission to this category and who do not have appropriate test scores in English and math who wish to take an English or a mathematics course will be required to take a placement examination prior to enrollment. Based on the results of this assessment, these applicants may be required to successfully complete basic or developmental courses prior to enrolling in degree credit courses.
3. Applicants in the non degree category are not eligible to receive federal financial aid.

NOTE: Those applicants under 21 who complete their high school work during the calendar year in which they seek admission will not be considered in the non-degree category. These applicants must apply as [first-time freshmen](#).

All non-degree students may, at any time within the stated deadlines, apply to the Office of Admissions for reclassification as degree-seeking students, effective at the beginning of the next semester. Admission procedures and requirements are the same as those for degree-seeking undergraduate applicants. Applicants must file an application to be reclassified into this category and supply the following documentation:

1. Provide an acceptable entrance examination score or the equivalent.
2. The high school graduation requirement may be satisfied by any of the methods listed in the [first-time freshmen](#) section of the [Undergraduate Catalog](#).

After students are admitted as regular undergraduates, any credit that may have been earned as non-degree-seeking students may apply toward degree programs in the college from which a degree is sought as outlined in the [Undergraduate Catalog](#).

## Concurrent Enrollment

Outstanding high school students who have completed the sophomore year may be admitted and register for one college course per term of enrollment concurrently provided they supply evidence of the following:

1. A minimum high school cumulative grade point average (GPA) of 3.20 on a 4.00 scale.
2. An ACT composite score of 22 or above.
3. A recommendation from the applicant's high school principal or guidance counselor.
4. The course concurrently enrolled students register for must be taken outside of their established school day.

**NOTE:** Departments may establish additional criteria for their courses.

## Audit Only Admission Requirements

Persons who are not enrolled for credit courses may register for audit courses with the approval of the Office of Admissions and the appropriate department chair. These students must have the equivalent of high school graduation or be at least 18 years of age. Clearance will be for one term only. Subsequent enrollment will require an application for readmission. Tennessee residents who have a permanent and total disability, which totally incapacitates them from working at an income producing occupation, may audit courses at the University of Memphis without paying tuition charges, maintenance fees, student activity fees, or registration fees. Admission to audit will be limited on an individual classroom basis according to space availability. An application fee of \$25.00 is required.

## Planning

### Degree Program and Planning

Each student is responsible for fulfilling all of the requirements for the degree program being pursued and for following the procedures and regulations as stated in the Catalog in effect when entering college. The Catalog is valid for seven years. Students should keep a copy of the Catalog they enter under until they graduate. Assistance from an advisor is helpful in planning the program of studies and in selecting the specific courses to be taken for each semester.

The Graduation from the University section of the Catalog outlines the minimum university level degree requirements. Some colleges specify the exact manner in which the university level requirements must be met. In addition to these, the student must fulfill the college level requirements for the degree and the major requirements. If the admission or retention standards for a particular college or department differ from the University requirements, they will be listed in the college degree program description. If they do not, the University requirements apply. The guidelines below will be helpful in planning which program to follow.

- Read the Catalog to investigate what options are available.
- Consult with an academic advisor in the Academic Counseling Center and the colleges that offer majors which are of interest to you;
- Talk with the departmental faculty in these areas of interest.
- Take advantage of the counseling offerings of the Counseling, Tutoring and Testing (Testing, Career Counseling, Personal and Psychological Counseling, and the Educational Support Program).
- Become familiar with the Academic Regulations section of the Catalog; determine the grades that are needed to insure retention and graduation as well as honors classifications in the University and in individual programs.
- If you are undecided about a major area, begin your program of studies with those courses required for all degrees.

**After a major has been chosen:**

- consult with your advisor to determine what procedures are necessary to declare a major;
- read the entire section of the Catalog that relates to the degree and major selected; note all degree requirements listed for the college such as the number of hours required within the college and outside the college and the number of upper division hours required; list all the University General Education Program Requirements required for the college or obtain a degree sheet from the college advisor; note the major requirements (when choices are allowed, be sure to consult with your major advisor);
- plan your coursework semester by semester; try to complete all of your lower division courses (1000-2000) during your first two years; be sure to check for prerequisites before enrolling in any courses, especially upper division courses; take the courses in the proper sequence.

## Helpful Links

- Colleges Degree Programs
- [Class Offerings](#)
- Course Descriptions
- Graduation from the University
- Expenses
- Academic Regulations
- Campus Directory

## General Requirements

- [University General Education Requirements](#)
- [Residence Requirements](#)
- [Requirements for Teacher Licensure](#)
- [Catalog Applicability](#)
- [Second Bachelor's Degree](#)
- [Second Major](#)
- [Minors](#)
- [Expenses](#)
- [Other Fees](#)
- [Other Registration Fees](#)
- [Miscellaneous Fees](#)
- [Appeal Procedures](#)
- [University ID Cards](#)
- [Tiger Fund\\$](#)
- [Campus Directory](#)

## Baccalaureate Degrees\*

Communication 9 hours\*\*

Humanities / Fine Arts 9 hours (At least one course must be in literature.)

Social / Behavioral Sciences 6 hours

History 6 hours\*\*\*

Natural Sciences 8 hours

Mathematics 3 hours

Total 41 hours

\*Foreign language courses are an additional requirement for the Bachelor of Arts (B.A.) degrees. The B.A. degree requires proficiency in a foreign language equivalent to completion of two years of college-level work.

\*\*Six hours of English Composition and three hours in English oral presentational communication are required.

\*\*\*\*Students who have not completed one year of American History in high school must complete 6 credit hours of American History or 3 credit hours of American History plus 3 credit hours of Tennessee History in order to satisfy the History General Education requirement. Students who plan to transfer to University of Tennessee System universities or to out-of-state or private universities should check requirements and take the appropriate courses.

Although the courses designated by Tennessee Board of Regents (TBR) institutions to fulfill the requirements of the general education subject categories vary, transfer of the courses is assured through the following means:

- Upon completion of an A.A. or A.S. degree, the requirements of the lower-division general education core will be complete and accepted by a TBR university in the transfer process.

- If an A.A. or A.S. is not obtained, transfer of general education courses will be based upon fulfillment of complete subject categories. (Example: If all eight hours in the category of Natural Sciences are complete, then this "block" of the general education core is complete.) When a subject category is incomplete, course-by-course evaluation will be conducted. The provision of block fulfillment pertains also to students who transfer among TBR universities.
- Institutional/departmental requirements of the grade of "C" will be honored. Even if credit is granted for a course, any specific requirements for the grade of "C" by the receiving institution will be enforced.
- In certain majors, specific courses must be taken also in general education. It is important that students and advisors be aware of any major requirements that must be fulfilled under lower-division general education.

Courses designated to fulfill general education at the University of Memphis are published below. A complete listing of the courses fulfilling general education requirements for all Tennessee Board of Regents institutions is available on the TBR website (<http://www.tbr.edu/>) under Transfer and Articulation Information.

## Apply For Graduation

All students are required to apply to graduate during the semester preceding the semester of graduation. The deadlines for the application to graduate are included on the [Registrar's website](#). It is the responsibility of the student to insure that this deadline is met.

University General Education Program

[Residence Requirements](#)

[Requirements for Teacher Licensure](#)

[Catalog Applicability](#)

[Second Bachelor's Degree](#)

[Second Major](#)

[Minors](#)

## Residence Requirements

A student will satisfy residence requirements for graduation by earning at least twenty-five (25) percent of credit hours required for the degree at the University of Memphis. At least thirty (30) of the final sixty (60) hours required for the degree must be completed at the University of Memphis. A student transferring credits from a two-year college or institution must complete, as a requirement for the baccalaureate degree, a minimum of sixty semester hours in an accredited senior institution.

In addition, the student must meet the residence requirements for the specific degree as established by the college or school in which it is offered. Exceptions to residence requirements can be authorized by the appropriate dean. Residence requirements for specific degrees within each college or school may be found in the Colleges and Degree Programs section. For more details, the student should inquire in the office of the dean of the appropriate college or school.

## Requirements for Teacher Licensure

An undergraduate student can be recommended for licensure to teach in Elementary Education (Grades K-6); Early Childhood Education (Grades PreK-3); or Special Education (Grades K-12); or Physical Education (Grades K-12), Art (Grades PreK-12), Music (Grades PreK-12) in the State of Tennessee by completing all degree requirements for that endorsement as outlined for the Bachelor of Science in Education in the COLLEGE OF EDUCATION DEGREE PROGRAMS section of this Catalog, or the College of Communication and Fine Arts for Art and Music.

A student in any of these programs must (1) file an application for admission to the Teacher Education Program in The College of Education, Health and Human Sciences; (2) fulfill the requirements and application procedures for the year-long Residency; (3) apply to graduate before the University deadline; (4) have an overall GPA of no less than 2.75 and a grade of "C" or above in each required course on their program of study; (5) pass all appropriate PRAXIS II licensure exams, and (6) fulfill all other graduation requirements listed under the TEACHER EDUCATION PROGRAMS: REQUIREMENTS section.

Graduate, special, and transfer students who wish to obtain a teacher's license should confer with the academic advisor in the College of Education, Health and Human Sciences, Room 202, Ball Hall on the main campus, or Room 220 in the Barnell-Jones Building at the University of Memphis, Lambuth Campus, concerning their individual requirements.

# Catalog Applicability

## Degree/Major

A student may complete the requirements for the initial degree under the provisions of any valid UofM Catalog provided the effective date of that Catalog is not earlier than the student's initial admission to UofM or some other accredited institution of higher learning. The degree requirements published in the Undergraduate Catalog of the University of Memphis are valid for seven years from the beginning of the academic year to which the Catalog applies. For students whose initial enrollment occurs Fall 2017-Summer 2018, this Catalog is valid through Summer 2024.

With the approval of the dean of the college through which the student's degree is offered, any student who had completed at least fifteen semester hours of course work and whose progress was interrupted by a call to active military duty may extend the validity date for graduation for any Catalog valid at the time of the call to active duty. Though the student should attempt to complete requirements within the normal seven-year validity period, the dean may grant an extension commensurate with actual time served on active military duty and time required for directly related medical treatment that prevents the student's re-enrollment. Qualification for this extension is contingent upon re-enrollment within a period of time deemed reasonable by the dean. The extension is not allowed for a full military career.

The seven-year Catalog validity period applies only to degree requirements as specified in Graduation from the University and Colleges, Degree Programs and Courses sections of the Catalog. It does not apply to regulations in the Academic Regulations section. Specific regulations apply for the year in which they appear in the Catalog.

## Minor

A student with a declared major may pursue any established minor described in this or any subsequent Catalog. The selected minor must be different than the declared major and require approval of the degree granting college under which the student is graduating. The minimum of 18 credit hours for a minor is required. Some of the hours in the minor may also be included in the student's general education and degree requirements. There must be at least 9 hours at the upper division level. The GPA required for the minor is that of the degree granting college. Students must complete the coursework for the minor as described in the "College and Degree Programs" section of the undergraduate Catalog. The minor must be declared no later than graduation check-out time. All course requirements for the minor must be completed by the time of graduation.

## Second Bachelor's Degree

All students who hold a baccalaureate degree from a regionally accredited institution of higher education, including the University of Memphis, may earn another bachelor's degree with a different title.

To earn the second bachelor's degree, the student must:

1. Complete any additional college requirements as determined by the office of the dean of the college granting the second baccalaureate degree.
2. Complete all requirements for the major as determined by the department in which the second baccalaureate degree is sought.
3. Complete a minimum of 30 semester hours in residence.
4. Earn a minimum overall\* grade point average of 2.0.

\*Until Summer 2015, the overall GPA will reflect all college-level coursework-U of M and transfer. Beginning Summer 2015, the overall GPA will reflect all college-level work-U of M and any transfer coursework processed prior to Summer 2015; however, the overall GPA will reflect ONLY U OF M coursework for those students whose transfer credit is processed Summer 2015 and later.

NOTE: Beginning Summer 2015, a Tennessee Board of Regents' state-wide policy on transfer credit and GPA calculations takes effect. Beginning Summer 2015, transfer credit will be reflected in earned hours, but will no longer apply to the overall GPA (used to determine undergraduate graduation, graduation with distinction, and athletic eligibility) or to the overall combined GPA (used to determine academic standing, financial aid, and scholarship eligibility, except for HOPE):

1. For New Transfer students admitted Summer 2015 and later, no transfer credit will count in the overall or the overall combined GPA.
2. For Readmitted students readmitted Summer 2015 and later, no transfer credit taken since last attending the U of M will count in the overall or the overall combined GPA. Any transfer work previously processed will continue to be reflected in the GPAs.



3. For Continuing students, no transfer credit submitted to and received by the U of M Summer 2015 or later will count in the overall or the overall combined GPA. Any transfer work previously processed will continue to be reflected in the GPAs.

## Second Major

Two majors in the same degree may be pursued simultaneously or subsequently. If a student completes the requirements from a valid Catalog for an additional major for a degree previously earned at the University of Memphis, that major may be posted on the student's record if the student applies for the additional major through the appropriate dean's office.

## Minors

The minors available are the following:

### College of Arts and Sciences

[Aerospace Studies](#)

[African and African American Studies](#)

[Anthropology](#)

[Asian Studies](#)

[Biology](#)

[Chemistry](#)

[Classical Studies](#)

[Computer Science](#)

[Criminology and Criminal Justice](#)

[Emergency Management](#)

[English](#)

[Environmental Studies](#)

[Foreign Languages](#)

[History](#)

[Judaic Studies](#)

[Legal Thought and Liberal Arts](#)

[Mathematical Sciences](#)

[Military Science](#)

[Naval Sciences](#)

[Nonprofit Management](#)

[Philosophy](#)

[Physics](#)

[Political Science](#)

[Psychology](#)

[Public Administration](#)

[Religious Studies](#)

[Social Work](#)

[Sociology](#)

[Women's Studies](#)

### Fogelman College of Business and Economics

[Accounting](#)

[Business Economics](#)

[Entrepreneurship](#)

[Finance](#)

[International Business](#)

[Supply Chain Management](#)

[Management](#)

[Management Information Systems](#)

[Marketing Management](#)

[Pre-Professional Business Administration](#)

[Project Management](#)

[Real Estate](#)

[Risk Management and Insurance](#)

[Professional Selling](#)

[Systems Testing](#)

## College of Communication and Fine Arts

[Art](#)  
[Art History](#)  
[Communication](#)  
[Dance](#)  
[Journalism](#)  
[Music](#)  
[Photography](#)  
[Theatre](#)

## Herff College of Engineering

[Computer Engineering](#)  
[Electrical Engineering](#)

## University College

Alcohol and Drug Abuse  
 Studies American  
 Studies Child Development

# Expenses

## University Fees And Charges

GENERAL: All University fees and charges are calculated and assessed consistent with policies and procedures of the Tennessee Board of Regents and the University of Memphis. Information in this catalog is intended to cover the situations that most students will encounter. However, the University may have additional policies and procedures by which fees and charges are implemented or that apply to unusual situations.

## Registration (Enrollment) Fees

The information in this section concerning registration fees is applicable only to students enrolled in the undergraduate colleges and departments of the University. Similar information for students in The Graduate School and The School of Law is available in the catalogs of those schools. The fees are found at the Bursar's web site: <http://www.memphis.edu/bursar/fees/>

[Other Fees](#)

[Other Registration \(Enrollment\) Fee Information](#)

[Miscellaneous Fees](#)

[Appeal Procedures](#)

[University ID Cards](#)

[Tiger Funds](#)

## Other Fees

Fees associated with housing rates, meal rates, admission fees, course fees and the Regent's Online Degree Program courses can be found at <http://bf.memphis.edu/finance/bursar/otherfees.php>

**Foreign Language Placement Examination:** The fee for taking a foreign language placement examination is \$160 minimum and an additional \$15 for each hour in excess of three (3) per course. These fees are non-refundable and must be paid prior to the examination.

**Late Registration Fee:** A late registration fee of \$100, which is not included in the Fee Schedule above, will be assessed to each student who does not complete registration by the semester's first day of classes.

**Late Payment Fee:** A late payment fee of \$100 will be assessed to each student who does not satisfy at least the initial installment amount of enrollment fees (50% of fees after all financial aid, scholarships and/or sponsorships have been applied for the fall or spring semester; 100% of fees for summer sessions) by the deadline dates noted at Fee Payment Schedule. The student's registration is subject to cancellation.

**Payment Of Fees And Debts:** Registration (enrollment) fees may be paid by cash, check, money order, Visa/MasterCard/Discover, Financial Aid/Scholarship Award(s), or University TIGER FUNDS\$ account. Fees may be paid as soon as the student registers for courses and are due by the fee payment deadline date noted at [Registration Fee Payment Deadline page](#).

The University offers a deferred (installment) payment plan to assist students with the payment of enrollment fees. Please refer to the [University's Installment Payment Plan](#) for enrollment fees.

It is expected that a check or draft given to the university, for any reason, will be honored by the bank on which it is drawn. A check or draft dishonored by the bank on which it is drawn may be presented a second time at the discretion of the University. A \$20 returned item fee will be assessed for any checks/drafts returned.

The privilege of making payments to the University by personal check and check cashing privileges will be revoked for any student who has had more than one returned check/draft within a twelve month period. The suspension of this privilege will be for a period of one year from the date the last item is redeemed.

A student will not be permitted to satisfy registration fees by check if any previous check in payment of registration fees has been returned. **Students on a "NO CHECKS" status must be prepared to satisfy registration fees with cash, cashier's check, or by authorized credit card draft.**

**Eligibility for Deferment of Payment of Tuition and Fees by Certain Eligible Students Receiving U.S. Department of Veteran Affairs or Other Governmentally Funded Educational Assistance Benefits**

Servicemembers, veterans, and dependents of veterans who are eligible beneficiaries of U.S. Department of Veteran Affairs education benefits or other governmentally funded educational assistance, subject to the conditions and guidelines set forth in Tennessee Code Annotated 49-7-104 as amended, may elect, upon formal application, to defer payment of required tuition and fees until the final day of the term for which the deferment has been requested. Application for the deferment must be made no later than 14 days after the beginning of the term, and the amount of the deferment shall not exceed the total monetary benefits to be received for the term. Students who have been granted deferments are expected to make timely payments on their outstanding tuition and fees balance once education benefits are being delivered, and eligibility for such deferment shall terminate if the student fails to abide by any applicable rule or regulation, or to act in good faith in making timely payments. This notice is published pursuant to Public Chapter 279, Acts of 2003, effective July 1, 2003.

**Indebtedness To University:** Policy of the Tennessee Board of Regents prohibits the enrollment of any person who owes the university any amount of money. All outstanding financial obligations to the university must be satisfied before a student will be allowed to register for courses. Tennessee law prohibits the release of grades, transcripts or diplomas of any person having outstanding financial obligations to the university.

**Refund Of Registration (Enrollment) Fees:** The following refund percentages of enrollment fees (Maintenance, Out-Of-State Tuition, Materials, Applied Music, Nursing Clinical Practicum, Business, Engineering and other course fees, and Student Activity Fees) apply to students who withdraw from the university or who drop to an hourly load below full time:

- A. **100% Refund:** (1) A full (100%) refund of these fees will be provided until the semester's first day of classes, (2) for courses canceled by the University, and (3) in the case of the death of the student during the semester.
- B. **75% Refund:** A 75% refund will be provided beginning with the semester's first day of classes and extending for a period of time as noted at <https://mv.memphis.edu/>.
- C. **25% Refund:** A 25% refund will be provided beginning at the expiration of the 75% refund period and extending for a period of time as noted at <https://mv.memphis.edu/>.
- D. At the conclusion of the 25% refund period, there will be no refund of these fees.
- E. Students who receive Federal Title IV Funds and who withdraw from the University may be eligible for a refund of enrollment fees based on the Federal pro-rate refund calculation. Please refer to the Student Aid section of this Catalog for specific information on pro-rata refunds and the return of Federal Title IV Funds.

## Other Registration Fees

**Residency Classification:** All determinations concerning the classification of students as in state or out of state for fee purposes are made in the Office of Admissions. The determinations are based on the regulations and guidelines of the Tennessee Board of Regents. If, for any reason, there is a question about a student's residency classification for fee payment purposes, the student is responsible for requesting a review of his or her residency status before classes begin.

**Academic Common Market:** Participation in the Academic Common Market allows qualified students from southern states to pay in-state tuition while pursuing certain degree programs at the University of Memphis. This arrangement is available only for students whose home states do not offer the designated program. The state in which the student resides determines which of the programs offered by the University of Memphis the home state will make available to its students.

The Academic Common Market is sponsored by the Southern Regional Education Board (SREB). Participating states are Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia (Florida and Texas grant access for graduate level programs only). Current SREB common market guidelines and requirements may be found on the web at: <http://www.sreb.org/programs/acm/acm/searchacm.asp>.

Students may request through their home state coordinators that additional programs be made accessible. A list of the state coordinators with their addresses and telephone numbers may be obtained from the Office of Curriculum Planning or the Academic Common Market web site <http://www.sreb.org/programs/acm/acm/searchacm.asp>.

In addition to certification requirements which the student's state of residence may specify, the following pertain: (1) students must be fully admitted to a degree program that has been approved as an Academic Common Market program (non-degree students are ineligible); (2) students must obtain a letter certifying residency term of entry and approval for the particular University of Memphis program from their state's Academic Common Market coordinator.

**NOTE:** After enrollment, students remain eligible for in-state tuition only so long as they are continuously enrolled-consecutive fall and spring terms- in the same major for which they were originally certified. If students change major, they must process a Change of Major through their advisor and notify the Office of Admissions to change the Academic Common Market residency code on their records.

**Failure to process the Change of Major and to notify Office of Admissions may subject the student to out-of state fees for all subsequent terms of enrollment in classes for a major other than the one for which the student received ACM certification.** Missing a fall or spring term of enrollment or a change of major requires that the student be recertified through the ACM coordinator in the student's state or residence.

**Fees For Totally Disabled Persons And Persons Over 60 Years Of Age:** Persons who are domiciled in Tennessee and (1) have a permanent disability that totally incapacitates them from the potential to work at an occupation that brings them an income, or (2) who will become 60 years of age or older during the academic semester in which they begin classes, may AUDIT courses at the University of Memphis without paying tuition charges, maintenance fees, student activity fees, access fees, or registration fees. Admission to AUDIT will be limited on an individual classroom basis according to space availability.

Those who are totally disabled and those who will become 65 years of age or older during the academic semester in which they begin classes, and who are domiciled in Tennessee, may enroll for courses for credit at the cost of one-half the normal per credit hour fee, not to exceed \$70 per semester.

Direct inquiries regarding these programs may be addressed to Registration Service, room 003, Wilder Tower.

## Miscellaneous Fees

**Music Industry Fees:** Students who wish to apply for credit for experiential learning in Music Industry may obtain guidelines for this procedure from the Dean of the College of Communication and Fine Arts. A non-refundable \$25 contract advising fee will be charged for the assessment of the portfolio. See "Experiential Learning Credit Fees" for related fee information.

**Credit By Examination or Placement Examination:** The fee for taking an examination for credit or a placement examination is \$60 minimum and an additional \$15 for each hour in excess of three (3) per course. These fees are non-refundable and must be paid prior to the examination.

**Experiential Learning Credit Fees:** Students who apply for credit for experiential learning will pay a fee of \$75 per credit hour for which credit is awarded. See [http://www.memphis.edu/innovation/elc/experiential\\_learning.php](http://www.memphis.edu/innovation/elc/experiential_learning.php) for more information.

**Music Locker Rental:** Music students are required to have a locker for storage of University-owned musical instruments or equipment. Personal instruments may also be stored in the locker. A fee of \$5 per semester is assessed for the locker rental. Students will be expected to pay for any damages.

**Transcripts:** There is no fee for your first twenty transcripts. Transcripts are issued only at the request of the student in person or by letter. No transcript will be issued for a student who has any unfulfilled obligations to the University.

**Various Course Fees:** Certain other course offerings may require various fees to obtain the necessary course related supplies.

**Wall Lockers:** University rental lockers are located in the following buildings: Engineering (first floor), and Jones Hall (basement and third floors). There is a \$5 per semester fee for the rental of wall lockers. Wall locker fees are paid at the Bursar's Office (115 Wilder Tower).

The listing of any fee or incidental charge in this publication does not constitute a contract between the University and the student. As a condition of registration, each student will pay the fees in effect for the semester for which he or she registers. All questions in regard to fees, fee payment, refunds, and appeals should be directed to the Bursar's Office (115 Wilder Tower).

Fees are subject to change without notice. The University will usually collect the amount of fees due at the time of enrollment fees satisfaction in accordance with the residency classification and fee rates in effect. After all enrollments are complete, any over-collections will be refunded and students will be billed for any under-collections.

Fees for AUDITING courses are assessed on the same basis as fees for credit courses. Courses offered between terms, for concentrated periods during a term, or at specific locations may be subject to fees on a per-hour basis only.

## Appeal Procedures

**Appeal Procedures for Fees/Charges/Refunds:** Any individual may appeal the assessment, application, calculation, collection, or interpretation of any University fee, charge deposit, or refund. The University has developed the following processes for an appeal:

**Traffic Fines/Citations:** Traffic fines and citations may be appealed through a separate process on forms available from the Parking Office, Office of Student Conduct, or the Student Government Association Office.

**Residence Life and Dining Services:** Appeals related to Residence Life and Dining Services financial matters should be filed first with the Office of Residence Life and Dining Services for processing. Decisions of the Office of Residence Life and Dining Services may be appealed in writing to the Office of the Assistant Vice President of Student Affairs and the Dean of Students. This decision may be appealed to the University Fee/Refund Appeals Committee.

**All Other University Fees/Charges, Refunds, etc.:** A written appeal of all other financial matters should be filed first on forms available from the Bursar's Office (115 Wilder Tower). The Bursar's office will provide a decision in writing to the appellant. Decisions of the Bursar's Office may be appealed in writing to the Office of the Assistant Vice President for Finance.

The Office of the Assistant Vice President for Finance will provide a decision in writing of those matters appealed to that office. This decision may be appealed to the University Fee/Refund Appeals Committee. The recommendation of the committee will be forwarded to the Vice President for Business and Finance for a final decision, which will conclude the University's appeal process.

## University ID Cards

The University of Memphis issues each student an identification card that bears the student's image and social security number. All students should obtain this permanent identification card that is used as the primary campus-wide method of determining privileges and accesses permitted each student. The ID card is required for the borrowing of library books, admission to or approval to pick up or purchase student tickets to athletic and social events, the sale of used text books, and other official purposes.

There is **no charge** to the student for the initial University ID card and it is automatically validated each semester the student enrolls. The card remains the property of the University of Memphis and should be surrendered upon the request of any University official. Each student may possess only **ONE** University ID card at any time.

There is no charge for the initial student ID card. There is, however, a \$10 fee to replace a lost or stolen card. The replacement fee can be paid at the Customer Service Window adjacent to 115 Wilder Tower. To obtain your replacement card, present your receipt and a photo identification to the Campus Card Office, 115 Wilder Tower.

## Tiger Funds

A personal **TIGER FUNDS** account, which is accessed through the University ID card, is available to all students at the University of Memphis. **TIGER FUNDS** is a declining balance money management program that provides students with a convenient way to obtain supplies and services on campus without the need to carry cash or the inconvenience of paying by check or credit card.

**TIGER FUNDS** is accepted at numerous campus locations including the University Store, Health Center, and campus food service locations.

Additional information on the advantages and convenience of having a personal **TIGER FUNDS** account may be obtained from the Bursar's Office in 115 Wilder Tower.

# Campus Directory

Department	Phone Number
<a href="#">Academic Counseling Center</a>	901.678.2062
<a href="#">Admissions</a>	901.678.2111
<a href="#">Bursar's Office</a>	901.678.5579
<a href="#">Center for Athletics Academic Services</a>	901.678.2714
<a href="#">Counseling, Tutoring and Testing</a>	901.678.2067
<a href="#">Dean of Students</a>	901.678.2187
<a href="#">Financial Aid</a>	901.678.4825
<a href="#">Honors Program</a>	901.678.2690
<a href="#">President's Office</a>	901.678.2234
<a href="#">Provost's Office</a>	901.678.2119
<a href="#">Registrar</a>	901.678.2810

## College of Arts and Sciences

### College of Arts and Sciences

THOMAS J. NENON, Ph.D., Dean

Room 107, Scates Hall

(901) 678-3067

[www.memphis.edu/cas](http://www.memphis.edu/cas)

### Purposes

The College of Arts and Sciences has three distinct functions within the framework of the University.

1. Its primary function is to offer a strong liberal arts program designed to help the students prepare themselves for life in their own cultural setting by acquiring the means and desire to continue the processes of intellectual development and character formation throughout their lives. "The purpose of education," wrote John Stuart Mill, "is to make capable and cultivated human beings." "Education has for its object the formation of character," wrote Herbert Spencer. We believe that people are people, no matter what their careers, and that if we can help people to become more capable and sensible, they will have better careers and lives. It is our belief that the best preparation for any profession or vocation is a thorough foundation in those major fields of human interest, which are included in the humanities, the natural sciences, and the social sciences. A program of liberal studies at the University of Memphis aims to provide the students with a store of factual knowledge, to introduce them to varying sets of principles, to stimulate them to think about and evaluate facts and principles, and to encourage them to order their own affairs and those of their society with the talent, insight, and discrimination they develop.
2. The College of Arts and Sciences offers this kind of education to the candidates for its own degrees, and to the students of other colleges of the University, all of whose degree plans call for courses in the arts and sciences.
3. The college offers preparatory courses for students interested in careers in medicine, dentistry, nursing, teaching, law and other professions; specific pre-professional programs, designed to prepare students to qualify for admission to professional schools, are available.

# Organization of the College

## Departments and Divisions

The College of Arts and Sciences comprises the following departments and divisions: Aerospace Studies, Anthropology, Biological Sciences, Chemistry, Computer Science, Earth Sciences, English, History, Mathematical Sciences, Military Science, Naval Science, Philosophy, Physics and Materials Science, Political Science, Psychology, the School of Urban Affairs and Public Policy (including City and Regional Planning, Criminology and Criminal Justice, Public and Nonprofit Administration, Social Work), Sociology, and World Languages and Literatures.

The various offerings of the departments and divisions of The College of Arts and Sciences are organized into four groups:

Humanities: English, history, philosophy, world languages and literatures.

Natural Sciences: biology, chemistry, computer science, earth science, mathematics, physics.

Social Sciences: anthropology, city and regional planning, criminal justice, economics, geography, political science, psychology, public administration, social work, sociology.

Other: African and African American Studies, Environmental Studies, International Studies, Judaic Studies, Legal Thought and Liberal Arts, ROTC programs (Aerospace Studies, Military Science, Naval Science), Women's and Gender Studies.

## College and Degree Requirements

### Prior Learning Assessment

# Academic Advising

Students with declared majors in the College of Arts and Sciences receive advising from faculty or professional advisors in the department of their major. Through required advising appointments, the advisor assists students in selecting courses and fulfilling requirements in a timely and organized manner with attention to their prior skills. The advisor may also serve as a resource for discovering and pursuing academic and career goals, and for information about university support services available to students. This assistance, however, does not in any way relieve the student of the primary responsibility for studying the Catalog and fulfilling all the requirements for the degree.

# Pre-Professional Training

**Pre-Medical/Pre-Health** - The Pre-Professional Advisor, in the Dean's Office, offers resource and career information to students planning on applying to the following health and professional schools: medicine, dentistry, pharmacy, optometry, veterinary medicine, physical therapy, and allied health fields including cytotechnology, dental hygiene, health information management, medical technology, and occupational therapy.

**Pre-Law** - In general, accredited law schools have not adopted specific requirements for pre-law education; they do, however, emphasize certain courses as being conducive to the development of the broad cultural background necessary for the successful study of law. Students interested in applying to law school should contact the Pre-Professional Advisor in room 107, Scates Hall for further information.

**Teacher Preparation** - Students who wish to prepare for teaching careers in the secondary schools (grades 7-12) of Tennessee will be expected to complete a baccalaureate degree with a major in the intended teaching area, followed by earning licensure through the College of Education or other licensure programs. Additional information on licensure requirements may be obtained from the Office of Teacher Education in the College of Education.

Individual program requirements described in the University of Memphis Undergraduate Catalog are subject to change. Please consult the college level advisor for changes that may occur before the publication of the next issue of the Catalog.

# Department of Aerospace Studies

### **AEROSPACE STUDIES**

MARC N. LONDON, Lt. Col., USAF,  
Professor of Aerospace Studies

BYRON C. FOSTER (2013), Major, United States Air Force, Assistant Professor: B.S., 2002, Wayland Baptist University  
MARC N. LONDON (2013), Lieutenant Colonel, United State Air Force, Detachment Commander, Chair: B.S., 1994, United States Air Force Academy; M.B.A., 1997, University of Phoenix  
NEWMAN C. ROBERTSON (2013), Major, United States Air Force, Assistant Professor: B.S., 1993, Southern University of New Orleans; M.A.T., 1997, Xavier University

The Department of Aerospace Studies provides a four-year program of instruction for all qualified U.S. citizens, male and female, divided into two phases, each of two years duration. The first, termed the General Military Course, offers instruction in the foundation of leadership and Aerospace-age citizenship. The second, termed the Professional Officer Course, builds upon these foundations in developing upperclassmen who are to become Air Force officers and serve on active duty upon graduation and commissioning.

Instruction in Aerospace Studies has been an important phase of the curriculum at the University of Memphis since 1951. Active duty Air Force personnel, approved by the University president, are detailed by the Department of the Air Force to administer the instructional program. Air Force officers serve under appointment by the University as Professor or Assistant Professor of Aerospace Studies.

## **Leadership Laboratory**

This lab is designed around a microcosm of the U.S. Air Force. It gives the cadets the opportunity to develop their leadership potential while allowing the staff to make evaluations based on actual managerial and leadership situations.

## **Air Force ROTC College Scholarship Program**

Scholarships paying full tuition and fees, book allowance, and a tax free subsistence allowance of \$350.00 per month are available to entering freshmen and University students who are competitive academically and will enroll in the Air Force ROTC program. Details concerning qualifications and applications can be obtained from the Department of Aerospace Studies. NOTE: Several loan funds are also available to students enrolled in AFROTC. For more information, contact the department staff.

## **Field Training**

Field Training is offered during the summer months at selected Maxwell Air Force Base in Montgomery, Alabama. Students in the four-year program participate in four weeks of Field Training (AERO 3211), usually between their sophomore and junior years. Students applying for entry into the program with less than four years must successfully complete five weeks of Field Training (AERO 3212) prior to enrollment in the Professional Officer Course.

## **Minor**

### **Aerospace Studies Minor**

#### **Requirements**

Upon successful completion of 16 semester hours in Aerospace Studies with a minimum grade of C, a cadet may apply for a minor in Aerospace Studies.



## Department of Anthropology

Program objectives for a B.A. in Anthropology are that students will: (a) demonstrate knowledge of the holistic foundations of anthropology, and core subfields of cultural anthropology, biological anthropology, archaeology, and linguistics; (b) demonstrate critical analysis and independent thought in relation to core constructs, theories, and methods in anthropological works; (c) demonstrate effective written communication skills; and (d) experience and appreciate anthropology's real world applications through enriched learning opportunities such as community-based research, service learning, internships, and study-abroad programs.

### Major

#### Anthropology, (B.A.)

Program objectives for a B.A. in Anthropology are that students will: (a) demonstrate knowledge of the holistic foundations of anthropology, and core subfields of cultural anthropology, biological anthropology, archaeology, and linguistics; (b) demonstrate critical analysis and independent thought in relation to core constructs, theories, and methods in anthropological works; (c) demonstrate effective written communication skills; and (d) experience and appreciate anthropology's real world applications through enriched learning opportunities such as community-based research, service learning, internships, and study-abroad programs.

#### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

#### College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

#### The Major (30 hours)

Completion of 30 semester hours in anthropology courses including

- ANTH 1100 - Biol Anth & Prehistory
- ANTH 1200 - Cultural Anthropology
- ANTH 3200 - Peoples/Cultures World
- ANTH 4065 - Anthropological Theory
  - and 18 additional semester hours with at least 15 hours at the upper division level.

#### Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Department of Anthropology offers an honors program in anthropology to the superior anthropology student who desires a more intensive approach to and knowledge of the discipline, a deeper understanding of research skills, and an opportunity for original criticism and analysis. To be eligible a student must (a) have the approval of the Department Chair, (b) be an anthropology major, (c) have attained at least junior standing, (d) have completed successfully ANTH 1100, ANTH 1200, and one upper-division anthropology course, (e) have maintained a minimum cumulative grade point average of 3.00 in overall studies, (f) have maintained a cumulative grade point average of at least 3.25 in anthropology, (g) have completed four honors courses in anthropology (at least one of which must be an independent study culminating in a research paper/thesis or research report) and a minimum of six hours in honors courses outside anthropology. Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred, "With Honors in Anthropology." Moreover the student's diploma and the record at the University of Memphis will reflect this accomplishment. Details of the program are available at the Department of Anthropology office.

## Typical 4-Year Anthropology Sequence

### Freshman Year

#### First Semester

- ANTH 1100 - Biol Anth & Prehistory
- ENGL 1010 - English Composition
  - MATH\*
  - Foreign Language/BA
  - Elective

#### Second Semester

- ANTH 1200 - Cultural Anthropology
- ENGL 1020 - English Comp/Analysis
  - Elective
  - Foreign Language/BA
  - Humanities/Fine Arts\*

Semester Totals 30-31 hrs

### Sophomore Year

#### First Semester

- ANTH 3200 - Peoples/Cultures World
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
  - Natural Science\*
  - History\*
  - Elective (3)

## Second Semester

- History\*
- Elective
- Fine Arts\*
- Natural Science\*
- UD Elective

Semester Totals 32 hrs

## Junior Year

### First Semester

- UD ANTH
- COMM 2381 - Oral Communication
  - Elective
  - UD Elective
  - UD ANTH

### Second Semester

- ANTH 4065 - Anthropological Theory
  - UD ANTH
  - UD Elective
  - Elective
  - Elective

Semester Totals 30 hrs

## Senior Year

### First Semester

- UD ANTH (3)
- UD Elective (3)
- Elective (3)
- Elective (3)
- UD Elective

## Second Semester

- UD ANTH (3)
- ANTH Elective (3)
- UD elective (3)
- Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### Anthropology Minor

#### Requirements

Completion of 18 semester hours in anthropology courses, including

- ANTH 1100 - Biol Anth & Prehistory
- ANTH 1200 - Cultural Anthropology
- ANTH 3200 - Peoples/Cultures World
- ANTH 4065 - Anthropological Theory

## Department of Biological Sciences

Students who earn a B.S. in Biology should attain the following objectives: (a) demonstrate knowledge and comprehension of the principles, concepts, and theories pertinent at each level of biological organization; (b) apply principles of biological classification to the diversity of life and recognize phylogenetic relationships among organisms; (c) demonstrate skills in analytical reasoning and problem solving; (e) function successfully in laboratory and field settings, including the use of basic equipment, techniques, and safety protocols;

(f) access, evaluate, and utilize biological information in print and electronic formats; (g) effectively communicate scientific knowledge and experimental results in both oral and written formats; (h) compete successfully for admission to graduate and professional programs and for employment utilizing their academic training.

#### Advanced Placement

All students who have completed an Advanced Placement biology course in high school should request a score report be sent to University of Memphis Office of Admissions during the admission process and before enrolling in classes. Students scoring 3 on the Advanced Placement Test will receive credit hours for BIOL 1010/BIOL 1011, BIOL 1020/BIOL 1021. Those scoring 4 or higher will receive credit hours for BIOL 1010/BIOL 1011, BIOL 1020/BIOL 1021. See the [Advanced Placement Table](#) for additional information.

## Major

### Biology, (B.S.)

Students who earn a B.S. in Biology should attain the following objectives: (a) demonstrate knowledge and comprehension of the principles, concepts, and theories pertinent at each level of biological organization; (b) apply principles of biological classification to the diversity of life and recognize phylogenetic relationships among organisms; (c) demonstrate skills in analytical reasoning and problem solving; (e) function successfully in laboratory and field settings, including the use of basic equipment, techniques, and safety protocols; (f) access, evaluate, and utilize biological information in print and electronic formats; (g) effectively communicate scientific knowledge and experimental results in both oral and written formats; (h) compete successfully for admission to graduate and professional programs and for employment utilizing their academic training.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830 or MATH 1910 is required for the Biology major.

### The Major (64 hours in Addition to University General Education Program Requirements)

Students must earn a grade of at least "C-" in all BIOL courses applied toward the major, the minor, and in all required chemistry, physics, and mathematical courses. BIOL, CHEM, MATH, and PHYS courses applicable toward the major or minor may not be taken more than three times. Students must earn a grade of at least "C-" in BIOL 1110/BIOL 1111 and BIOL 1120/BIOL 1121, before enrolling in any upper division BIOL course.

Any BIOL course applicable toward the major or minor may be repeated once to earn a minimum grade of "C-." To repeat a course a second time, a student must apply for and receive special permission from the department Undergraduate Studies Committee. Application information is available in the Biology Advising and Resource Center. A student may not attempt the same BIOL course more than three times, regardless of where it is taken. Courses cross-listed with BIOL (e.g., CHEM 4511, CHEM 4512, and CHEM 4501) also are subject to this course repetition policy.

Completion of 36 hours in BIOL courses, 16 hours in CHEM courses, 3-4 hours in MATH courses, 8 hours in PHYS courses, and 12 hours in Required Support Courses as specified below:

## Biology Requirements:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab (these courses are included in the University General Education Program)
- BIOL 3072 - Genetics
- BIOL 3073 - Genetics Laboratory
- BIOL 3130 - Cell Biology
- BIOL 4100 - Evolution

## 18 Additional Upper Division Hours in BIOL Courses Approved by the Department

### One Organismal Diversity Course From Among

- BIOL 3200 - General Botany
- BIOL 3620 - Comp Anatomy of Vertebrts
- BIOL 4245 - Plant Systematics/Evolution
- BIOL 4375 - Molec Biol/Parasite
- BIOL 4640 - Ornithology
- BIOL 4644 - Ichthyology
- BIOL 4740 - Mammalogy
- BIOL 4744 - Herpetology
- BIOL 4900 - Entomology

### One Additional Laboratory or Lecture/laboratory Course

#### Note:

No more than five total credit hours of research and practicum (BIOL 4000, BIOL 4001, BIOL 4570) can be applied toward major requirements.

## Additional Science and Math Requirements:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM

- MATH 1830 - Elementary Calculus

or

- MATH 1910 - Calculus I (these courses are included in the University General Education Program)

- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
  
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## Required Support Courses:

Select courses from each of the following three areas for a total of at least 12 hours:

### Science Ethics (one course):

- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics

### Upper Division Social Science (one course):

- ANTH 3111 - Human Paleontology
- ANTH 4111 - Evolution and Human Health
- ANTH 4220 - Cultural Perspec/Environment
- ANTH 4510 - Health/Culture/Environ Justice
- ANTH 4511 - Medical Anthropology
- ANTH 4521 - Culture, Soc & Mental Health
- ANTH 4531 - Alcohol/Drugs/Culture
- ANTH 4541 - Nutritional Anth
- ANTH 4551 - Culture/Sex/Childbirth
- ANTH 4571 - Race and Health Disparities
- ECON 4230 - Ecological Economics
- ECON 4740 - Health Care Economics
- ESCI 4201 - Urbanization/Environment
- ESCI 4251 - Environmental Hazards
- ESCI 4252 - Global Environmental Change
- POLS 4512 - Global Environmental Politics
- PSYC 3306 - Physiological Psyc
- PSYC 3307 - Animal Behavior
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 3512 - Health Psychology
- PSYC 4305 - Mind/Brain/Intelligence
- SOCI 3401 - Social Inequality
- SOCI 3432 - Sociology of Gender
- SOCI 4420 - Racial Inequality
- SOCI 4541 - Sociology of Aging
- SOCI 4851 - Medical Sociology

## Skills Courses (two courses):

- CLAS 3021 - Medical Terminology
  - COMP 1900 - CS1:Intro Comp Science
- or
- COMP 4001 - Computer Programming
  - ENGL 3601 - Technical and Profess Writing
  - ESCI 4511 - Remote Sensing/Environ
  - ESCI 4515 - Geographic Info Science
  - HLSC 4530 - Epidemiology
  - MATH 4611 - Intro Applied Statistics
- or
- PSYC 3010 - Research and Statistics I
  - PSYC 3020 - Research and Statistics II

## Foreign Language:

6 hours in a single foreign language, or equivalent. If the language chosen was used to meet University admissions requirements, students must take the foreign language placement exam and complete two sequential courses beginning with the course into which placed by the exam. If a different language is chosen, any six hours will fulfill the requirement.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year Biology Sequence

### Freshman Year

#### First Semester

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 1010 - English Composition
- MATH 1830 - Elementary Calculus

or

- MATH 1910 - Calculus I
  - Social Sciences (3) \*

#### Second Semester



- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ENGL 1020 - English Comp/Analysis
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
  - Humanities (3) \*

Semester Totals 27-28 hrs

## Sophomore Year

### First Semester

- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- COMM 2381 - Oral Communication
  - Social Sciences (3) \*
  - History (3) \*

### Second Semester

- BIOL 3130 - Cell Biology
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
  - Elective (3) \*\*
  - Skills Course (3-4)

Semester Totals 33-34 hrs

## Junior Year

- BIOL 3072 - Genetics
- BIOL 3073 - Genetics Laboratory
  - PHYS (4) \*\*\*
  - UD BIOL (3)
  - Skills Course (3-4)
- BIOL 4100 - Evolution
  - PHYS (4) \*\*\*
  - UD BIOL (4)
  - Humanities (3) \*

## Semester Totals 28-29 hrs

### Senior Year

#### First Semester

- Science Ethics (3)
- UD BIOL (4)
- UD BIOL (3)
- Elective (3)
- Elective (3)

#### Second Semester

- History (3) \*
- UD BIOL (4)
- UD Social Science (3)
- Elective (3)
- Elective (1-3)

## Semester Totals 32 hrs

## Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement.

\*\*Undergraduate research is strongly encouraged as part of the elective hours.

\*\*\*Choose: PHYS 2010/PHYS 2011 and PHYS 2020/PHYS 2021 or PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.

†Students continuing their high school foreign language, e.g. for a foreign language major/minor and/or to meet the BIOL skills course requirement, are encouraged to take foreign language in the freshman year.

## Minor

### Biology Minor

#### Requirements

Completion of 18 semester hours in biology courses including

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- BIOL 1120 - General Biology II

- BIOL 1121 - General Biol II Lab
  - 10 upper division hours

## Note

No more than four total credit hours of research and practicum (BIOL 4000, BIOL 4001, BIOL 4570) can be applied toward minor requirements.

## Accelerated Bachelor/Masters

### Biology, (Accelerated B.S./M.S.)

Students who earn a B.S. in Biology should attain the following objectives: (a) demonstrate knowledge and comprehension of the principles, concepts, and theories pertinent at each level of biological organization; (b) apply principles of biological classification to the diversity of life and recognize phylogenetic relationships among organisms; (c) demonstrate skills in analytical reasoning and problem solving; (d) function successfully in laboratory and field settings, including the use of basic equipment, techniques, and safety protocols; (e) access, evaluate, and utilize biological information in print and electronic formats; (f) effectively communicate scientific knowledge and experimental results in both oral and written formats; (g) compete successfully for admission to graduate and professional programs and for employment utilizing their academic training.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830 or MATH 1910 is required for the Biology major.

### The Major (64 hours in Addition to University General Education Program Requirements)

Students must earn a grade of at least "C-" in all BIOL courses applied toward the major, the minor, and in all required chemistry, physics, and mathematical courses. BIOL, CHEM, MATH, and PHYS courses applicable toward the major or minor may not be taken more than three times. Students must earn a grade of at least "C-" in BIOL 1110/BIOL 1111 and BIOL 1120/BIOL 1121, before enrolling in any upper division BIOL course.

Any BIOL course applicable toward the major or minor may be repeated once to earn a minimum grade of "C-." To repeat a course a second time, a student must apply for and receive special permission from the department Undergraduate Studies Committee. Application information is available in the Biology Advising and Resource Center. A student may not attempt the same BIOL course more than three times, regardless of where it is taken. Courses cross-listed with BIOL (e.g., CHEM 4511, CHEM 4512, and CHEM 4501) also are subject to this course repetition policy.

Completion of 36 hours in BIOL courses, 16 hours in CHEM courses, 3-4 hours in MATH courses, 8 hours in PHYS courses, and 12 hours in Required Support Courses as specified below:

## Biology Requirements:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab (these courses are included in the University General Education Program)
- BIOL 3072 - Genetics
- BIOL 3073 - Genetics Laboratory
- BIOL 3130 - Cell Biology
- BIOL 4100 - Evolution

## 18 Additional Upper Division Hours in BIOL Courses Approved by the Department

### One Organismal Diversity Course From Among

- BIOL 3200 - General Botany
- BIOL 3620 - Comp Anatomy of Vertebrts
- BIOL 4245 - Plant Systematics/Evolution
- BIOL 4375 - Molec Biol/Parasite
- BIOL 4640 - Ornithology
- BIOL 4644 - Ichthyology
- BIOL 4740 - Mammalogy
- BIOL 4744 - Herpetology
- BIOL 4900 - Entomology

### One Additional Laboratory or Lecture/laboratory Course

#### Note:

No more than five total credit hours of research and practicum (BIOL 4000, BIOL 4001, BIOL 4570) can be applied toward major requirements.

## Additional Science and Math Requirements:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM

- MATH 1830 - Elementary Calculus

or

- MATH 1910 - Calculus I (these courses are included in the University General Education Program)

- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## Required Support Courses:

Select courses from each of the following three areas for a total of at least 12 hours:

### Science Ethics (one course):

- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics

### Upper Division Social Science (one course):

- ANTH 3111 - Human Paleontology
- ANTH 4111 - Evolution and Human Health
- ANTH 4220 - Cultural Perspec/Environment
- ANTH 4510 - Health/Culture/Environ Justice
- ANTH 4511 - Medical Anthropology
- ANTH 4521 - Culture, Soc & Mental Health
- ANTH 4531 - Alcohol/Drugs/Culture
- ANTH 4541 - Nutritional Anth
- ANTH 4551 - Culture/Sex/Childbirth
- ANTH 4571 - Race and Health Disparities
- ECON 4230 - Ecological Economics
- ECON 4740 - Health Care Economics
- ESCI 4201 - Urbanization/Environment
- ESCI 4251 - Environmental Hazards
- ESCI 4252 - Global Environmental Change
- POLS 4512 - Global Environmental Politics
- PSYC 3306 - Physiological Psyc
- PSYC 3307 - Animal Behavior
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 3512 - Health Psychology
- PSYC 4305 - Mind/Brain/Intelligence
- SOCI 3401 - Social Inequality
- SOCI 3432 - Sociology of Gender
- SOCI 4420 - Racial Inequality
- SOCI 4541 - Sociology of Aging
- SOCI 4851 - Medical Sociology

## Skills Courses (two courses):

- CLAS 3021 - Medical Terminology
  - COMP 1900 - CS1: Intro Comp Science
- or
- COMP 4001 - Computer Programming
  - ENGL 3601 - Technical and Profess Writing
  - ESCI 4511 - Remote Sensing/Environ
  - ESCI 4515 - Geographic Info Science
  - HLSC 4530 - Epidemiology
  - MATH 4611 - Intro Applied Statistics
- or
- PSYC 3010 - Research and Statistics I
  - PSYC 3020 - Research and Statistics II

## Foreign Language:

6 hours in a single foreign language, or equivalent. If the language chosen was used to meet University admissions requirements, students must take the foreign language placement exam and complete two sequential courses beginning with the course into which placed by the exam. If a different language is chosen, any six hours will fulfill the requirement.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Accelerated B.S./M.S. Program in Biology

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Biology during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Biological Sciences.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.S. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Biology department. Each applicant will complete an interview with the graduate academic coordinator in biology.

Students must also apply to the Graduate School for the accelerated B.S./M.S. program, which allows them to take graduate courses in biology. To continue in the program past the B.S., students must apply for full admission into the Graduate School and into the Biological Sciences department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 4-Year Biology Sequence

### Freshman Year

#### First Semester

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 1010 - English Composition
- MATH 1830 - Elementary Calculus

or

- MATH 1910 - Calculus I
  - Social Sciences (3) \*

#### Second Semester

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ENGL 1020 - English Comp/Analysis
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
  - Humanities (3) \*

Semester Totals 27-28 hrs

### Sophomore Year

#### First Semester

- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- COMM 2381 - Oral Communication
  - Social Sciences (3) \*
  - History (3) \*

#### Second Semester

- BIOL 3130 - Cell Biology
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
  - Elective (3) \*\*
  - Skills Course (3-4)

## Semester Totals 33-34 hrs

### Junior Year

- BIOL 3072 - Genetics
- BIOL 3073 - Genetics Laboratory
  - PHYS (4) \*\*\*
  - UD BIOL (3)
  - Skills Course (3-4)
- BIOL 4100 - Evolution
  - PHYS (4) \*\*\*
  - UD BIOL (4)
  - Humanities (3) \*

## Semester Totals 28-29 hrs

### Senior Year

#### First Semester

- Science Ethics (3)
- UD BIOL (4)
- UD BIOL (3)
- Elective (3)
- Elective (3)

#### Second Semester

- History (3) \*
- UD BIOL (4)
- UD Social Science (3)
- Elective (3)
- Elective (1-3)

## Semester Totals 32 hrs

## Total Hours: 120-121

## Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement.

\*\*Undergraduate research is strongly encouraged as part of the elective hours.

\*\*\*Choose: PHYS 2010/PHYS 2011 and PHYS 2020/PHYS 2021 or PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.



†Students continuing their high school foreign language, e.g. for a foreign language major/minor and/or to meet the BIOL skills course requirement, are encouraged to take foreign language in the freshman year.

## Department of Chemistry

The Department of Chemistry offers courses leading to the B.S. degree with a major in chemistry. The department also offers a program culminating in the professional degree of Bachelor of Science in Chemistry (B.S.Ch.). This program is designed to meet the requirements of the Committee on Professional Training of the American Chemical Society, and is undertaken primarily by students who desire to go directly to positions in the chemical industry, or to enroll for postgraduate study in chemistry.

## Sequence of Courses

Students who have a score on the university's math placement exam (ALEKS) earning placement into MATH 1720 or higher should enroll in CHEM 1110/CHEM 1111 if they plan to take more than one year of college chemistry, or plan to major in either a natural science or in biomedical, civil, mechanical, or electrical engineering. CHEM 1010/CHEM 1011 and CHEM 1020/CHEM 1021 are for students interested in the science of chemistry, but are not credited toward a major in chemistry, biology or physics. CHEM 1010/CHEM 1011 and CHEM 1020/CHEM 1021 may satisfy the General Education Natural Science requirements of other majors. CHEM 1010 may be taken as preparation by students of limited high school chemistry background whose curriculum requires CHEM 1110.

## Advanced Placement

Beginning students who have had previous high school training in chemistry are invited to apply for advanced placement.

## Laboratory Safety and Course Requirements

Laboratory safety is strictly practiced in the Department of Chemistry. Approved eye protection must be worn as required in all chemical laboratories. In addition, to ensure that students enrolled in laboratory courses learn the necessary safety information to safely participate in the laboratory course, all prerequisites and/or corequisites for all laboratory courses are strictly enforced. As a result, when a student enrolls in a laboratory course without prior completion of the necessary prerequisite or corequisite, the student will be dropped from the laboratory course. In addition, when a student simultaneously enrolls in a laboratory course and corequisite course, but subsequently drops or discontinues the corequisite course, the student will be dropped from the laboratory course. In the event any student fails to comply with any safety requirements of the Department of Chemistry, the department has the right to not allow the student to perform laboratory work, or to withdraw the student from the laboratory course, as appropriate.

The requirements listed below are for majors and minors for the Bachelor of Science degrees or for minors for the Bachelor of Arts degrees; for detailed requirements for the Bachelor of Science in Chemistry, a professional degree, see degree requirements described later in this section.

NOTE: Students must complete CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121 before enrolling in any upper division course applied toward the major or the minor.

## Major

### Chemistry - Biochemistry Concentration, (B.S.)

Program objectives for a B.S. in Chemistry and a B.S.Ch. in Chemistry are: (a) to have a satisfactory knowledge and comprehension of core concepts of analytical, organic, physical, inorganic and bioorganic chemistry; (b) to develop the ability to critically assess and

solve problems relating to theoretical and practical aspects of chemistry; (c) to have satisfactory laboratory skills; (d) to have satisfactory presentation skills to communicate chemical concepts and the results of investigations into chemical phenomena, through oral and written discourse and by way of mathematical sciences (e) to have satisfactory basic computer and computational skills; (f) will be satisfactorily prepared for entry level positions in the field, or for admission to graduate or professional school; (g) to demonstrate an understanding of professional ethics and the importance of chemistry in its impact on society.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## The Major (46-53 hours)

Students must earn a grade of at least "C-" in all CHEM courses applied toward the major or minor, and in all required BIOL, PHYS, and MATH courses. Students must earn a grade of at least "C-" in CHEM 1110 and CHEM 1120 before enrolling in any upper-division CHEM course, and in CHEM 1111 and CHEM 1121 before enrolling in any upper-division CHEM laboratory course.

Any CHEM (or cross-listed) course may be repeated once at the student's option to earn a minimum grade of "C-." To repeat a CHEM (or cross-listed) course a second time, a student may apply for and receive special permission from the Chemistry Department. Application information is available in the Chemistry Department Office, Room 213, J.M. Smith Chemistry Building. No student may take a CHEM (or cross-listed) course more than three times in order to earn a minimum grade of "C-" without extraordinary departmental permission.

## Core Requirements (31 hours):

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (these courses are included in the University General Education Program requirements, credit hours not counted in 46-53 hours for the major)
- CHEM 3111 - Foundations/Inorganic CHEM
- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3411 - Foundations/Physical Chemistry
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- CHEM 4999 - Senior Survey
  
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
  
- or
- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II

## One of the Following Upper Division Ethics Courses:

- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics

Plus (15-22 hours):

## Biochemistry Concentration:

- MATH 1830 - Elementary Calculus
- or
- MATH 1910 - Calculus I (included in the University General Education Program requirements)
  - MATH 4611 - Intro Applied Statistics
  - CHEM 4511 - Biochemistry I
  - CHEM 4501 - Lab Tech In Biochem
  - BIOL 1110 - General Biology I
  - BIOL 1111 - General Biology I Lab
  - BIOL 1120 - General Biology II
  - BIOL 1121 - General Biol II Lab

## One of the Following:

- CHEM 4512 - Biochemistry II
  - BIOL 3500 - Micro I/Fundmntl Aspect
- or
- BIOL 3130 - Cell Biology
    - three additional upper division hours in CHEM.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Graduating with Honors in Chemistry

Applies to both the B.S.Ch. and the B.S. with a major in Chemistry

1. In order to graduate with Honors in Chemistry, the student must have an overall GPA of 3.25 and a GPA of 3.25 in all science and mathematics courses required for the major.
2. The student must earn honors credit in a minimum of three 3-credit hour upper-division chemistry lecture courses if honors have not been previously earned in CHEM 1110/CHEM 1120, or in a minimum of two 3-credit hour upper-division chemistry lecture courses if honors have been previously earned in CHEM 1110/CHEM 1120. Honors may be contracted in courses not offering a formal Honors section. A minimum grade of B is required in order to earn honors credit.
3. The student must successfully complete CHEM 4901/CHEM 4902/CHEM 4903 with a formal paper required in CHEM 4903 serving as the equivalent of an honors thesis.
4. The student must present his/her research to an audience external to the Department of Chemistry.

## Typical 4-Year Chemistry (B.S.) Sequence, Biochemistry Concentration

### Freshman Year

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1910 - Calculus I
  
- ACAD 1100 - Academic Strategies
  - Humanities/Fine Arts\* (3)
- ENGL 1020 - English Comp/Analysis
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
  - Social/Behavioral Sci\* (3)

Semester Totals 30-31 hrs

### Sophomore Year

- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
  - Humanities/Fine Arts\* (3)
- PHYS 2010 - General Physics I/Trig \*\*\*
- PHYS 2011 - General Physics Lab I \*\*\*
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- COMM 2381 - Oral Communication
- PHYS 2020 - General Physics II/Trig \*\*\*
- PHYS 2021 - Gen Physics Lab II \*\*\*
  - Social/Behavioral Sciences\* (3)
  
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American

Semester Totals 32 hrs

## Junior Year

- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
  - Elective (3)
- MATH 4611 - Intro Applied Statistics
  - History\* (3)
- CHEM 3411 - Foundations/Physical Chemistry
  - Elective (3)
  - Ethics\*\*\*\* (3)
  - History\* (3)
- CHEM 3111 - Foundations/Inorganic CHEM

Semester Totals 29 hrs

## Senior Year

- CHEM 4501 - Lab Tech In Biochem
- CHEM 4511 - Biochemistry I
  - Elective (3)
  - Elective (3)
  - Elective (3)
- CHEM 4999 - Senior Survey
  - UD CHEM (3)
  - UD BIOL\*\* (3)
  - UD Elective (3)
  - UD Elective (3)
  - Elective (2)

Semester Totals 29 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Only one of BIOL 3130, BIOL 3500 or CHEM 4512 is required.

\*\*\* PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121 may be substituted for this sequence

\*\*\*\*One of the following may be selected: PHIL 3512, PHIL 3514, PHIL 3515

## Chemistry - Biochemistry Concentration, (B.S.Ch.)

The department also offers a program culminating in the professional degree of Bachelor of Science in Chemistry (B.S.Ch.). This program is designed to meet the requirements of the Committee on Professional Training of the American Chemical Society, and is undertaken primarily by students who desire to go directly to positions in the chemical industry, or to enroll for postgraduate study in chemistry.

### University General Education Program (41 hours)

See Graduation from the University link for the University General Education Program requirements. Note the following specifications for the B.S.Ch. degree: Natural Science - CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121; Mathematics - MATH 1910.

To qualify for the Bachelor of Science in Chemistry degree, the student must complete a minimum of 120 semester hours with a grade point average of at least 2.0. A minimum of 42 semester hours must be in courses from the upper division.

### The Major (35 hours)

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

(the 4 courses above are included in the University General Education Program requirements)

- CHEM 3111 - Foundations/Inorganic CHEM
- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3411 - Foundations/Physical Chemistry
- CHEM 3511 - Foundations/Bioorganic CHEM
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 4999 - Senior Survey

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II

- MATH 1910 - Calculus I (included in the University General Education Requirements)
- MATH 1920 - Calculus II

**One of the Following Upper Division Ethics Courses:**

- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics

**Biochemistry Concentration:**

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab
- CHEM 4511 - Biochemistry I
- CHEM 4501 - Lab Tech In Biochem

**Additional Lectures and Lab**

Six (6) additional upper division hours in chemistry lecture courses and one additional upper division chemistry laboratory course

- CHEM 4901 - Chemical Research I
- CHEM 4902 - Chemical Research II
- CHEM 4903 - Chemical Research III

**One of the Following 2 Courses:**

- MATH 4611 - Intro Applied Statistics
- MATH 4635 - Intro Probability Theory

**One of the Following 3 Courses:**

- BIOL 3130 - Cell Biology
- BIOL 3500 - Micro I/Fundmntl Aspect
- CHEM 4512 - Biochemistry II

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Graduating with Honors in Chemistry

Applies to both the B.S.Ch. and the B.S. with a major in Chemistry

1. In order to graduate with Honors in Chemistry, the student must have an overall GPA of 3.25 and a GPA of 3.25 in all science and mathematics courses required for the major.
2. The student must earn honors credit in a minimum of three 3-credit hour upper-division chemistry lecture courses if honors have not been previously earned in CHEM 1110/CHEM 1120, or in a minimum of two 3-credit hour upper-division chemistry lecture courses if honors have been previously earned in CHEM 1110/CHEM 1120. Honors may be contracted in courses not offering a formal Honors section. A minimum grade of B is required in order to earn honors credit.

3. The student must successfully complete CHEM 4901/CHEM 4902/CHEM 4903 with a formal paper required in CHEM 4903 serving as the equivalent of an honors thesis.
4. The student must present his/her research to an audience external to the Department of Chemistry.

## Typical 4-year Chemistry (B.S.Ch. Biochemistry Concentration)

### Freshman Year

#### First Semester

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
- ACAD 1100 - Academic Strategies

Humanities/Fine Arts

Semester Total: 17 hours

#### Second Semester

- ENGL 1020 - English Comp/Analysis
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- MATH 1920 - Calculus II
- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab

Semester Total: 15 hours

Freshman Year Totals: 32 hours

### Sophomore Year

#### First Semester

- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- COMM 2381 - Oral Communication



Semester Total: 15 hours

## Second Semester

- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American

Semester Total: 14 hours

## Sophomore Year Totals: 29 hours

## Junior Year

### First Semester

- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM

MATH\*\*

Humanities/Fine Arts\*

History\*

Semester Total: 14 hours

### Second Semester

- CHEM 3111 - Foundations/Inorganic CHEM
- CHEM 3411 - Foundations/Physical Chemistry

Social/Behavioral Science\*

Ethics\*\*\*\*

History\*

Semester Total: 15 hours

Junior Year Totals: 29 hours

Senior Year

First Semester

- CHEM 4501 - Lab Tech In Biochem
- CHEM 4511 - Biochemistry I
- CHEM 4901 - Chemical Research I
- CHEM 4902 - Chemical Research II

Elective

Elective

CHEM UD

Semester Total: 16 hours

Second Semester

- CHEM 4903 - Chemical Research III

UD CHEM lab

CHEM UD

- CHEM 4999 - Senior Survey

BIOL\*\*\*\*\*

Elective

Elective

Semester Total: 14 hours

Senior Year Totals: 30 hours

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*MATH 4611 or MATH 4635 .

\*\*\*With permission of the Chair of the Chemistry Department, PHYS 2010 / PHYS 2011 and PHYS 2020 /PHYS 2021 be substituted for this sequence.

\*\*\*\*One of the following may be selected: PHIL 3512 PHIL 3514 PHIL 3515

\*\*\*\*\*One of the following may be selected: BIOL 3130 , BIOL 3500 , or CHEM 4512

## Chemistry - General Concentration, (B.S.)

Program objectives for a B.S. in Chemistry and a B.S.Ch. in Chemistry are: (a) to have a satisfactory knowledge and comprehension of core concepts of analytical, organic, physical, inorganic and bioorganic chemistry; (b) to develop the ability to critically assess and solve problems relating to theoretical and practical aspects of chemistry; (c) to have satisfactory laboratory skills; (d) to have satisfactory presentation skills to communicate chemical concepts and the results of investigations into chemical phenomena, through oral and written discourse and by way of mathematical sciences (e) to have satisfactory basic computer and computational skills; (f) will be satisfactorily prepared for entry level positions in the field, or for admission to graduate or professional school; (g) to demonstrate an understanding of professional ethics and the importance of chemistry in its impact on society.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## The Major (46-53 hours)

Students must earn a grade of at least "C-" in all CHEM courses applied toward the major or minor, and in all required BIOL, PHYS, and MATH courses. Students must earn a grade of at least "C-" in CHEM 1110 and CHEM 1120 before enrolling in any upper-division CHEM course, and in CHEM 1111 and CHEM 1121 before enrolling in any upper-division CHEM laboratory course.

Any CHEM (or cross-listed) course may be repeated once at the student's option to earn a minimum grade of "C-." To repeat a CHEM (or cross-listed) course a second time, a student may apply for and receive special permission from the Chemistry Department. Application information is available in the Chemistry Department Office, Room 213, J.M. Smith Chemistry Building. No student may take a CHEM (or cross-listed) course more than three times in order to earn a minimum grade of "C-" without extraordinary departmental permission.

## Core Requirements (31 hours):

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (these courses are included in the University General Education Program requirements, credit hours not counted in 46-53 hours for the major)
- CHEM 3111 - Foundations/Inorganic CHEM
- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3411 - Foundations/Physical Chemistry
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- CHEM 4999 - Senior Survey
  
- PHYS 2110 - Sci/Engr Phys I/Calc

- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

or

- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II

### One of the Following Upper Division Ethics Courses:

- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics

### Plus (15-22 hours):

### General Concentration:

Eight (8) upper division semester hours in chemistry not to include more than three credit hours of experiential learning (CHEM 4901, CHEM 4902, CHEM 4903, CHEM 4916, or CHEM 4918)

- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II

### One of the Following Courses:

- MATH 2110 - Calculus III
- MATH 4611 - Intro Applied Statistics
- COMP 1900 - CS1: Intro Comp Science

### Electives

Electives may be chosen to bring the total number of hours to 120.

### Graduating with Honors in Chemistry

Applies to both the B.S.Ch. and the B.S. with a major in Chemistry

1. In order to graduate with Honors in Chemistry, the student must have an overall GPA of 3.25 and a GPA of 3.25 in all science and mathematics courses required for the major.
2. The student must earn honors credit in a minimum of three 3-credit hour upper-division chemistry lecture courses if honors have not been previously earned in CHEM 1110/CHEM 1120, or in a minimum of two 3-credit hour upper-division chemistry lecture courses if honors have been previously earned in CHEM 1110/CHEM 1120. Honors may be contracted in courses not offering a formal Honors section. A minimum grade of B is required in order to earn honors credit.
3. The student must successfully complete CHEM 4901/CHEM 4902/CHEM 4903 with a formal paper required in CHEM 4903 serving as the equivalent of an honors thesis.
4. The student must present his/her research to an audience external to the Department of Chemistry.

## Typical 4-Year Chemistry (B.S.) Sequence, General Concentration

### Freshman Year

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
  - Humanities/Fine Arts\* (3)
- ACAD 1100 - Academic Strategies
- ENGL 1020 - English Comp/Analysis
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- MATH 1920 - Calculus II
  - Social/Behavioral Sci\* (3)

### Semester Totals 31 hrs

### Sophomore Year

- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
  - Humanities/Fine Arts\* (3)
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I \*\*\*
- COMM 2381 - Oral Communication
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II \*\*\*
  - Social/Behavioral Science\* (3)
  - Elective (3)

Semester Totals 31 hrs

## Junior Year

- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
  - MATH\*\* (3)
  - History\* (3)
  - Elective (3)
- CHEM 3111 - Foundations/Inorganic CHEM
  - PHIL 351X\*\*\*\* (3)
  - History\* (3)
- CHEM 3411 - Foundations/Physical Chemistry
  - Elective (3)

Semester Totals 29 hrs

## Senior Year

- UD CHEM (4)
- Elective (3)
- Elective (2)
- UD elective (3)
- UD CHEM (4)
- CHEM 4999 - Senior Survey
  - UD elective (3)
  - UD Elective (3)
  - UD elective (3)
  - Elective (3)

Semester Totals 29 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*One of the following may be selected: MATH 2110, MATH 4611, COMP 1900.

\*\*\*With permission of the Chair of the Chemistry Department, PHYS 2010/PHYS 2011 and PHYS 2020/PHYS 2021 may be substituted for this sequence.

\*\*\*\*One of the following may be selected: PHIL 3512, PHIL 3514, PHIL 3515

## Chemistry - General Concentration, (B.S.Ch.)

The department offers a program culminating in the professional degree of Bachelor of Science in Chemistry (B.S.Ch.). This program is designed to meet the requirements of the Committee on Professional Training of the American Chemical Society, and is undertaken primarily by students who desire to go directly to positions in the chemical industry, or to enroll for postgraduate study in chemistry.

### University General Education Program (41 hours)

See Graduation from the University link for the University General Education Program requirements. Note the following specifications for the B.S.Ch. degree: Natural Science - CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121; Mathematics - MATH 1910.

To qualify for the Bachelor of Science in Chemistry degree, the student must complete a minimum of 120 semester hours with a grade point average of at least 2.0. A minimum of 42 semester hours must be in courses from the upper division.

### The Major (52-54 hours)

#### Core Requirements (38-39 hours):

#### Completion of

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (these courses are included in the University General Education Program requirements and must be successfully completed prior to enrolling in the following, credit hours not counted in 52-54 for the major)
- CHEM 3111 - Foundations/Inorganic CHEM
- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3411 - Foundations/Physical Chemistry
- CHEM 3511 - Foundations/Bioorganic CHEM
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 4999 - Senior Survey
  
- PHYS 2110 - Sci/Engr Phys I/Calc
- and
- PHYS 2111 - Sci/Engr Phys Lab I
- and
- PHYS 2120 - Sci/Engr Phys II/Calc

and

- PHYS 2121 - Sci/Engr Phys Lab II (strongly recommended)

or

- PHYS 2010 - General Physics I/Trig

and

- PHYS 2011 - General Physics Lab I

and

- PHYS 2020 - General Physics II/Trig

and

- PHYS 2021 - Gen Physics Lab II

- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)

- MATH 1920 - Calculus II

### One of the Following Upper Division Ethics Courses:

- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics

### Advanced Requirements (17-32 hours)

Nine (9) upper division semester hours in chemistry lecture courses, two upper division chemistry laboratory courses, the undergraduate research course sequence CHEM 4901/CHEM 4902/CHEM 4903, and one of the following courses:

- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
- MATH 4611 - Intro Applied Statistics
- MATH 4635 - Intro Probability Theory
- COMP 1900 - CS1: Intro Comp Science

### Electives

Electives may be chosen to bring the total number of hours to 120.

### Graduating with Honors in Chemistry

Applies to both the B.S.Ch. and the B.S. with a major in Chemistry



1. In order to graduate with Honors in Chemistry, the student must have an overall GPA of 3.25 and a GPA of 3.25 in all science and mathematics courses required for the major.
2. The student must earn honors credit in a minimum of three 3-credit hour upper-division chemistry lecture courses if honors have not been previously earned in CHEM 1110/CHEM 1120, or in a minimum of two 3-credit hour upper-division chemistry lecture courses if honors have been previously earned in CHEM 1110/CHEM 1120. Honors may be contracted in courses not offering a formal Honors section. A minimum grade of B is required in order to earn honors credit.
3. The student must successfully complete CHEM 4901/CHEM 4902/CHEM 4903 with a formal paper required in CHEM 4903 serving as the equivalent of an honors thesis.
4. The student must present his/her research to an audience external to the Department of Chemistry.

## Typical 4-Year Chemistry (B.S.Ch.) Sequence

### Freshman Year

#### First Semester

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
- ACAD 1100 - Academic Strategies
  - Humanities/Fine Arts (3)

#### Second Semester

- ENGL 1020 - English Comp/Analysis
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- MATH 1920 - Calculus II
  - Social/Behavioral Sci (3) \*

### Semester Totals 31 hrs

### Sophomore Year

#### First Semester

- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
  - Elective (3)
- PHYS 2110 - Sci/Engr Phys I/Calc \*\*\*
- or
- PHYS 2111 - Sci/Engr Phys Lab I \*\*\*
- COMM 2381 - Oral Communication

#### Second Semester

- Social/Behavioral Sci (3) \*
- CHEM 3501 - Foundation/Bioorganic Chem Lab

- CHEM 3511 - Foundations/Bioorganic CHEM
- PHYS 2120 - Sci/Engr Phys II/Calc \*\*\*
- PHYS 2121 - Sci/Engr Phys Lab II \*\*\*
  
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
  - Elective (3)

## Semester Totals 31 hrs

## Junior Year

### First Semester

- CHEM 3201 - Foundation/Analytical CHEM lab
- CHEM 3211 - Foundations/Analytical CHEM
  - MATH (3) \*\*
  - Humanities/Fine Arts (3) \*
  - History (3) \*

### Second Semester

- CHEM 3111 - Foundations/Inorganic CHEM
- CHEM 3411 - Foundations/Physical Chemistry
  - Elective (3)
  - Ethics (3) \*\*\*\*
  - History (3) \*

## Semester Totals 29 hrs

## Senior Year

### First Semester

- CHEM 4902 - Chemical Research II
  - UD CHEM lab (1)
  - UD CHEM (3)
- CHEM 4901 - Chemical Research I
  - Elective (3)
  - Elective (3)
  - CHEM UD (3)

### Second Semester

- CHEM 4903 - Chemical Research III
  - UD CHEM lab (1)
  - UD CHEM (3)
- CHEM 4999 - Senior Survey
  - UD elective (3)
  - UD Elective (3)

- Elective (2)

Semester Totals 29 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*MATH 2110, MATH 2120, MATH 4611, MATH 4635 or COMP 1900.

\*\*\*With permission of the Chair of the Chemistry Department, PHYS 2010/PHYS 2011 and PHYS 2020/PHYS 2021 may be substituted for this sequence.

\*\*\*\*One of the following may be selected: PHIL 3512, PHIL 3514, PHIL 3515

## Minor

### Chemistry Minor

#### Requirements

Completion of 20 semester hours in chemistry courses, including

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
  - 12 semester hours selected from courses applicable to the chemistry major and including at least two chemistry laboratory courses.

### Department of Computer Science

The Department of Computer Science offers courses leading to a B.S. degree with a major in computer science, or a second major in computer science, or a minor in computer science. Our B.S. degree program is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (CAC/ABET).

## Major

### Computer Science, (B.S.)

The Department of Computer Science offers courses leading to a B.S. degree with a major in computer science, or a second major in computer science, or a minor in computer science. Our B.S. degree program is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (CAC/ABET).

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Computer Science major: Mathematics - MATH 1910; Natural Science - PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121 or CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121, or BIOL 1110/BIOL 1111, BIOL 1120/BIOL 1121; ECON 2020 is strongly recommended for the Social Science requirement.

### The Major (63 hours in addition to University General Education Program)

- MATH 1910 - Calculus I
- MATH 1920 - Calculus II
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics
  - Three Natural Science courses and labs (one sequence of Natural Science as mentioned above in General Education and a third course from the Natural Science list)
- COMP 1900 - CS1: Intro Comp Science
- COMP 1950 - Ethics and Professional Dev
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures
- COMP 3115 - Database Process and Design
- COMP 3410 - Computer Org/Architecture
- COMP 3825 - Network/Info Assurance
- COMP 4030 - Design/Analysis Algorithms
- COMP 4081 - Software Engineering
- COMP 4270 - Operating Systems
- COMP 4882 - Capstone Software Proj

#### Note:

Seniors are required to take the Computer Science Field Test the same semester that they take COMP 4882.

### Electives in the Major (12 hours)

- COMP 4040 - Programming Languages

- COMP 4601 - Models of Computation

and two COMP electives, which may **not** be any of 4001, 4005, or 4014.

## Second Major in Computer Science (34 hours)

Completion of 34 semester hours in computer science courses including

- COMP 1900 - CS1: Intro Comp Science
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures
- COMP 3115 - Database Process and Design
- COMP 3410 - Computer Org/Architecture
- COMP 4030 - Design/Analysis Algorithms
- COMP 4081 - Software Engineering
- COMP 4270 - Operating Systems
  - Six (6) semester hours in upper-division COMP courses
  - Nine (9) additional hours of computer science related courses

### Note:

COMP 4001, COMP 4005 and COMP 4014 may not be used to fulfill any of these requirements. Coursework must be chosen in consultation with approval of an advisor in the Department of Computer Science.

## Electives

Electives may be chosen to bring the total number of semester hours to 120. At least three of these elective hours must be from upper division courses. Students should talk to their advisors to determine most suitable courses for them.

## Computer Science Honors Designation

A student will earn the designation "with Honors in Computer Science" upon graduation having complied with the following requirements:

1. Be admitted into the Computer Science Honors Program by the Department upon formal request for consideration by the student;
2. Have a cumulative GPA of at least 3.0 and a GPA of at least 3.60 in Computer Science (COMP) courses satisfying degree requirements;
3. Complete fifteen (15) credit hours in courses designated "Honors" in the the Computer Science program and satisfying degree requirements;
4. Take honors sections of both COMP 1900 and COMP 2150 (core sequence);
5. Take at least three (3) credit hours from the following courses taken as honors sections: COMP 4901 (independent study), COMP 4996 (senior thesis), and COMP 4882 (capstone software project).

## Typical 4 Year Sequence Computer Science

### Freshman Year

- ENGL 1010 - English Composition
- GE MATH- MATH 1910 - Calculus I
- COMP 1900 - CS1: Intro Comp Science
- COMP 1950 - Ethics and Professional Dev
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- COMP 2700 - Discrete Structures
- COMP 2150 - CS2: OOP and Data Structures

Semester Totals: 29 hrs

### Sophomore Year

- COMP 3410 - Computer Org/Architecture
  - GE Natural Science w/lab\*
- MATH 4614 - Probability/Statistics
- ENGL 2201 - Literary Heritage or 2202 Credits / Units: 3
- COMP 3115 - Database Process and Design
  - GE Natural Science w/lab\*
- COMP 3825 - Network/Info Assurance
  - GE Humanities/Fine Arts
  - Social/Behavioral Science

Semester Totals: 30 hrs

### Junior Year

- COMP 4270 - Operating Systems
- MATH 3242 - Intro Linear Algebra
- COMP 4410 - Computer Security
  - Elective
  - GE History
- COMP 4030 - Design/Analysis Algorithms
- COMP 4040 - Programming Languages
  - Elective
  - GE History
  - Natural Science w/lab

Semester Totals: 31 hrs

## Senior Year

- COMP 4081 - Software Engineering
- COMP 4601 - Models of Computation
- COMM 2381 - Oral Communication
  - Elective
  - GE Social/Behavioral Science
- COMP 4882 - Capstone Software Proj
  - COMP Elective
  - UD Elective
  - Elective
  - GE Humanities/Fine Arts

Semester Totals: 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Natural Science - One sequence and one additional course/lab from: PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121; OR CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121; OR BIOL 1110/BIOL 1111, BIOL 1120/BIOL 1121.

## Computer Science, Cybersecurity Concentration (B.S.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Computer Science major: Mathematics - MATH 1910; Natural Science - PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121 or CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121, or BIOL 1110/BIOL 1111, BIOL 1120/BIOL 1121; ECON 2020 is strongly recommended for the Social Science requirement.

### The Major (63 hours in addition to University General Education Program)

- MATH 1910 - Calculus I
- MATH 1920 - Calculus II
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics
  - Three Natural Science courses and labs (one sequence of Natural Science as mentioned above in General Education and a third course from the Natural Science list)
- COMP 1900 - CS1: Intro Comp Science

- COMP 1950 - Ethics and Professional Dev
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures
- COMP 3115 - Database Process and Design
- COMP 3410 - Computer Org/Architecture
- COMP 3825 - Network/Info Assurance
- COMP 4030 - Design/Analysis Algorithms
- COMP 4081 - Software Engineering
- COMP 4270 - Operating Systems
- COMP 4882 - Capstone Software Proj

## Note:

Seniors are required to take the Computer Science Field Test the same semester that they take COMP 4882.

## Cybersecurity Concentration

- COMP 4410 - Computer Security
- COMP 4420 - Wireless and Mobile Security
- COMP 4430 - Digital Forensics
- COMP 4432 - Secure Coding and Testing

Total Hours: 120

## Typical 4 Year Sequence Computer Science-Cybersecurity Concentration

### Freshman Year

#### First Semester

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- COMP 1900 - CS1: Intro Comp Science
- COMP 1950 - Ethics and Professional Dev

#### Second Semester

- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- COMP 2700 - Discrete Structures
- COMP 2150 - CS2: OOP and Data Structures



Semester Totals: 29 hrs

## Sophomore Year

### First Semester

- COMP 3410 - Computer Org/Architecture
- MATH 4614 - Probability/Statistics
  - Natural Science with lab\*
- ENGL 2201 - Literary Heritage OR
- ENGL 2202 - Lit Heritage: African-American

### Second Semester

- COMP 3115 - Database Process and Design
- COMP 3825 - Network/Info Assurance
  - Natural Science with lab\*
  - Humanities
  - Social Behavioral Science

Semester Totals: 30 hrs

## Junior Year

### First Semester

- COMP 4270 - Operating Systems
- COMP 4410 - Computer Security
- MATH 3242 - Intro Linear Algebra
  - Elective (3)
  - History

### Second Semester

- COMP 4030 - Design/Analysis Algorithms
- COMP 4430 - Digital Forensics
  - Elective (3)
  - History
  - Natural Science with lab

Semester Totals: 31 hrs

## Senior Year

### First Semester

- COMP 4081 - Software Engineering
- COMP 4420 - Wireless and Mobile Security
- COMM 2381 - Oral Communication

- Elective (3)
- Social Behavioral Science

#### Second Semester

- COMP 4882 - Capstone Software Proj
- COMP 4432 - Secure Coding and Testing
  - Elective (3)
  - UD Elective (3)
  - Humanities

Semester Totals: 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Natural Science - One sequence and one additional course/lab from: PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121; OR CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121; OR BIOL 1110/BIOL 1111, BIOL 1120/BIOL 1121.

## Minor

### Computer Science Minor

#### Requirements

#### Completion of

Completion of 21 semester hours in computer science courses, including

- COMP 1900 - CS1: Intro Comp Science
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures
- COMP 3115 - Database Process and Design

#### 6 Additional Upper Division Semester Hours

- COMP 4001 - Computer Programming
- COMP 4005 - Web Design/Development

- COMP 4014 - Intro Java Programming may **not** be used to fulfill the minor requirement.

## Accelerated Bachelor/Masters

### Computer Science, (Accelerated B.S./M.S.)

The Department of Computer Science offers courses leading to a B.S. degree with a major in computer science, or a second major in computer science, or a minor in computer science. Our B.S. degree program is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (CAC/ABET).

Here are the requirements for Majors, Second Majors, and Minors respectively.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Computer Science major: Mathematics - MATH 1910; Natural Science - PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121 or CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121, or BIOL 1110/BIOL 1111, BIOL 1120/BIOL 1121; ECON 2020 is strongly recommended for the Social Science requirement.

### The Major (63 hours in addition to University General Education Program)

- MATH 1910 - Calculus I
- MATH 1920 - Calculus II
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics
  - Three Natural Science courses and labs (one sequence of Natural Science as mentioned above in General Education and a third course from the Natural Science list)
- COMP 1900 - CS1: Intro Comp Science
- COMP 1950 - Ethics and Professional Dev
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures
- COMP 3115 - Database Process and Design
- COMP 3410 - Computer Org/Architecture
- COMP 3825 - Network/Info Assurance
- COMP 4030 - Design/Analysis Algorithms
- COMP 4081 - Software Engineering
- COMP 4270 - Operating Systems
- COMP 4882 - Capstone Software Proj

#### Note:

Seniors are required to take the Computer Science Field Test the same semester that they take COMP 4882.

## Second Major in Computer Science (34 hours)

Completion of 34 semester hours in computer science courses including

- COMP 1900 - CS1: Intro Comp Science
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures
- COMP 3115 - Database Process and Design
- COMP 3410 - Computer Org/Architecture
- COMP 4030 - Design/Analysis Algorithms
- COMP 4081 - Software Engineering
- COMP 4270 - Operating Systems
  - Six (6) semester hours in upper-division COMP courses
  - Nine (9) additional hours of computer science related courses

### Note:

COMP 4001, COMP 4005 and COMP 4014 may not be used to fulfill any of these requirements. Coursework must be chosen in consultation with approval of an advisor in the Department of Computer Science.

## Electives

Electives may be chosen to bring the total number of semester hours to 120. At least three of these elective hours must be from upper division courses. Students should talk to their advisors to determine most suitable courses for them.

## Computer Science Honors Designation

A student will earn the designation "with Honors in Computer Science" upon graduation having complied with the following requirements:

1. Be admitted into the Computer Science Honors Program by the Department upon formal request for consideration by the student;
2. Have a cumulative GPA of at least 3.0 and a GPA of at least 3.60 in Computer Science (COMP) courses satisfying degree requirements;
3. Complete fifteen (15) credit hours in courses designated "Honors" in the the Computer Science program and satisfying degree requirements;
4. Take honors sections of both COMP 1900 and COMP 2150 (core sequence);
5. Take at least three (3) credit hours from the following courses taken as honors sections: COMP 4901 (independent study), COMP 4996 (senior thesis), and COMP 4882 (capstone software project).

## Accelerated B.S./M.S. Program in Computer Science

This program allows outstanding majors in Computer Science to begin the coursework for the Master of Science in Computer Science while enrolled as undergraduates.. Students are encouraged to consult their advisor and begin planning to enter the Accelerated

B.S./M.S. program early in their undergraduate study. The 5-year program is designed to save both cost and time as it removes some typical requirements (e.g. taking the GRE exam) in a standard application for our M.S. Program.

Candidates for the accelerated program must meet the following requirements:

- Complete COMP 1900, COMP 2150, COMP 2700, and at least two upper-division COMP courses by the end of the semester of application.
- Have a minimum 3.0 overall GPA, and a 3.6 GPA for COMP courses.

To apply for the accelerated program and be allowed to take graduate classes, students should submit two reference letters and a copy of their transcript to the Computer Science department. Applicants will be asked to complete an interview with the graduate program coordinator in computer science.

The accelerated program allows up to 9 hours of graduate course work to be applied to both the undergraduate and graduate programs. To continue in the graduate program once the B.S. degree is completed, students must apply for full admission into the Graduate School and into the Computer Science department's M.S. program. The GRE requirement for graduate admission is waived for students in the accelerated program.

**Total Hours: 120**

**Total Hours Required for Graduation: 120**

\*Must satisfy University General Education Program Requirement

\*\*Natural Science - One sequence and one additional course/lab from: PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121; OR CHEM 1110/CHEM 1111, CHEM 1120/CHEM 1121; OR BIOL 1110/BIOL 1111, BIOL 1120/BIOL 1121.

## **Department of Criminology and Criminal Justice**

Program objectives for a B.A. in Criminology and Criminal Justice are: (a) exhibit an understanding of the important functions, organization, and fundamental concepts of the operation of the criminal justice system (police, law/courts, corrections) in a democratic society; (b) acquire knowledge of the development of the components of the criminal justice system from an historical and cross-cultural perspective; (c) know the major theorists and theoretical orientations that help explain criminal behavior; (d) be able to understand, analyze, and critically evaluate basic research and data relevant to crime and the criminal justice system; (e) demonstrate an ability to formulate a thesis and to gather and critically assess information appropriate to a topic under study; (f) have the ability to effectively communicate both in written and oral form; (g) have an understanding of career and educational options that a bachelor's degree in Criminology and Criminal Justice provides.

### **Major**

#### **Criminology and Criminal Justice, (B.A.)**

Program objectives for a B.A. in Criminology and Criminal Justice are: (a) exhibit an understanding of the important functions, organization, and fundamental concepts of the operation of the criminal justice system (police, law/courts, corrections) in a democratic society; (b) acquire knowledge of the development of the components of the criminal justice system from an historical and cross-cultural perspective; (c) know the major theorists and theoretical orientations that help explain criminal behavior; (d) be able to understand, analyze, and critically evaluate basic research and data relevant to crime and the criminal justice system; (e) demonstrate an ability to formulate a thesis and to gather and critically assess information appropriate to a topic under study; (f) have the ability to effectively communicate both in written and oral form; (g) have an understanding of career and educational options that a bachelor's degree in Criminology and Criminal Justice provides.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## The Major (39 hours)

Completion of 39 semester hours including

- CJUS 1100 - Intro/Criminal Justice

either

- CJUS 2226 - Introduction to Police

or

- CJUS 2326 - Introduction to Courts

or

- CJUS 2426 - Intro/Corrections in America

- CJUS 3130 - Research Methods CJUS

- CJUS 3540 - Criminology

- CJUS 4110 - Advanced Application in CJUS

- CJUS 4130 - Ethical Dilemmas/CJUS

- an Upper Division English course

- plus 18 additional hours in criminology and criminal justice, of which at least 15 hours must be at the upper-division level.

## Note

Students will be allowed no more than 6 hours of credit toward the degree in non-classroom courses such as internships and individual directed studies.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

Majors who have completed at least 55 hours of coursework (with at least 9 hours in Criminology & Criminal Justice) and have a 3.25 or higher departmental and overall grade point average are invited to apply for admissions to the department's honors program. Students who are admitted must complete 15 hours of honors coursework in the Department, with at least 9 hours being upper-division criminal justice courses. Honor students must maintain a grade point average of at least 3.25. Students who complete the program and the regular college requirement will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Criminology and Criminal Justice." The student's diploma and the official record at The University of Memphis will also reflect this accomplishment.

## Typical 4-Year Criminology and Criminal Justice Sequence

### Freshman Year

- CJUS 1100 - Intro/Criminal Justice
- ENGL 1010 - English Composition
  - MATH (3-4) \*
  - Foreign Language/B.A. (3)
  - Elective (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
  
- CJUS 2226 - Introduction to Police
  
- or
  
- CJUS 2326 - Introduction to Courts
  
- or
  
- CJUS 2426 - Intro/Corrections in America
  - Foreign Language/B.A. (3)
  - Social/Behavioral Science (3) \*

Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American
  - CJUS LD elective (3)
  - Humanities (3) \*
  - Natural Science (4) \*
  - History (3) \*
  - Social/Behavioral Science (3) \*

- Elective (3)
- Natural Science (4) \*
- Fine Arts (3) \*
- CJUS 3130 - Research Methods CJUS

Semester Totals 32 hrs

## Junior Year

- History (3) \*
- Elective (3)
- CJUS 3540 - Criminology
  - CJUS UD elective (3)
- COMM 2381 - Oral Communication
  - UD English (3)
- CJUS 4130 - Ethical Dilemmas/CJUS
  - UD elective outside major (3)
  - Elective (3)
  - CJUS UD elective (3)

Semester Totals 30 hrs

## Senior Year

- CJUS UD elective (3)
- CJUS UD elective (3)
- UD elective outside major (3)
- UD elective outside major (3)
- UD elective outside major (3)
- Elective (3)
- CJUS 4110 - Advanced Application in CJUS
  - Elective outside major (4)
  - CJUS UD elective (3)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement



## Minor

### Criminology and Criminal Justice Minor

#### Requirements

Completion of 18 hours in criminal justice courses including

- CJUS 1100 - Intro/Criminal Justice

either

- CJUS 2226 - Introduction to Police

or

- CJUS 2326 - Introduction to Courts

or

- CJUS 2426 - Intro/Corrections in America

and

- CJUS 3130 - Research Methods CJUS

and

- CJUS 3540 - Criminology

- and 6 additional upper-division hours in Criminology and Criminal Justice courses

## Department of Earth Sciences

Program objectives are: (a) be able to demonstrate an understanding of the fundamental principles, concepts and knowledge of the discipline Earth Sciences (b) have knowledge of the effects of natural processes and human activity on the environment; (c) be able to address, solve and communicate geographic problems using quantitative methods and geographic techniques; (d) be able to critically examine community problems and develop coherent solutions to urban and other land management issues; (e) demonstrate effective written, oral and visual communication skills.

## Major

### Earth Sciences, (B.A.)

Program objectives are: (a) be able to demonstrate an understanding of the fundamental principles, concepts and knowledge of the discipline Earth Sciences (b) have knowledge of the effects of natural processes and human activity on the environment; (c) be able to address, solve and communicate geographic problems using quantitative methods and geographic techniques; (d) be able to critically examine community problems and develop coherent solutions to urban and other land management issues; (e) demonstrate effective written, oral and visual communication skills.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## The Major (35-49 hours)

### Core Requirements (7 hours):

All students must take ESCI 1020 (4) and ESCI 4515 (3). In addition, all students must fulfill the requirements for one of the following concentrations:

### Concentration (28-42 hours):

#### Geoarchaeology (33 hours):

- ESCI 1103 - The Human Planet
- ESCI 2301 - Fundamentals of Archaeology
- ESCI 4202 - Geomorphology
- ESCI 4301 - Archaeology/North America
- ESCI 4325 - Archaeol Fld/Lab Techn
- ESCI 4350 - Archaeology of Collapse
- ESCI 4352 - Old World Archaeology
- ESCI 4521 - Quantitative Methods
  - and six upper division hours as approved by advisor.

#### Geography (28 hours):

- ESCI 1010 - Weather and Climate
- or
- ESCI 1050 - The Earth Through Time
- or
- ESCI 1103 - The Human Planet

- ESCI 1401 - Intro/Cultural Geography
- or
- ESCI 4430 - Economic Geography
- ESCI 1301 - Survey of World Regions
- or
- ESCI 4307 - Thematic Studies/China
- ESCI 4521 - Quantitative Methods
  - and 15 additional upper division hours as approved by advisor.

### Geology (41-42 hours):

- ESCI 1040 - Physical Geology
- ESCI 1050 - The Earth Through Time
- ESCI 3311 - Mineralogy/Petrology
- ESCI 4512 - Structural Geology
- ESCI 3712 - Sedimentology/Stratigraphy
- ESCI 4622 - Geology Field Camp
- CHEM 1110 - General Chemistry I
- and
- CHEM 1111 - General Chemistry I Lab
- and
- CHEM 1120 - General Chemistry II
- and
- CHEM 1121 - General Chemistry II Lab
- PHYS 2010 - General Physics I/Trig
- and
- PHYS 2011 - General Physics Lab I
- and
- PHYS 2020 - General Physics II/Trig
- and
- PHYS 2021 - Gen Physics Lab II
- MATH 1910 - Calculus I (taken as University General Education requirement)
  - and 3-4 ESCI upper division hours approved by advisor.

### Electives (18-23 hours)

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year Geoarchaeology Concentration Sequence

### Freshman Year

- Humanities/Fine Arts (3) \*
- MATH (3-4) \*
- ENGL 1010 - English Composition
  - Elective (3)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Science (3) \*
  - Foreign Language/B.A. (3)

Semester Totals 30-31 hrs

### Sophomore Year

- ESCI 1020 - Landforms
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - Social/Behavioral Sciences (3) \*
  - Fine Arts (3) \*
  - Elective (3)
- ESCI 1103 - The Human Planet
- COMM 2381 - Oral Communication
  - UD elective (2)
  - History (3) \*
  - Elective (3)

Semester Totals 31 hrs

### Junior Year

- ESCI 2301 - Fundamentals of Archaeology
- ESCI 4515 - Geographic Info Science
  - UD elective (3)
  - UD elective (3)
  - Elective (3)
  - History (3) \*
- ESCI 4325 - Archaeol Fld/Lab Techn
  - UD ESCI (3)

- UD Elective (3)
- Elective (3)

Semester Totals 31 hrs

## Senior Year

- Elective (3)
- ESCI 4301 - Archaeology/North America
- ESCI 4202 - Geomorphology
  - UD ESCI (3)
  - UD Elective (3)
- ESCI 4352 - Old World Archaeology
- ESCI 4350 - Archaeology of Collapse
- ESCI 4521 - Quantitative Methods
  - Elective (3)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Typical 4-Year Geography Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3-4) \*
  - Humanities/Fine Arts (3) \*
  - Foreign Language/B.A. (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Social/Behavioral Science (3) \*
  - Foreign Language/B.A. (3)
  - Elective (3)

## Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- ESCI 1301 - Survey of World Regions
  - Fine Arts (3) \*
- ESCI 1010 - Weather and Climate
- or
- ESCI 1050 - The Earth Through Time
- or
- ESCI 1103 - The Human Planet
  - UD elective (3)
  - Elective (3)
- ESCI 1020 - Landforms
  - History (3) \*
- COMM 2381 - Oral Communication

## Semester Totals 32 hrs

### Junior Year

- ESCI 1401 - Intro/Cultural Geography
- or
- ESCI 4430 - Economic Geography
- ESCI 4515 - Geographic Info Science
  - UD ESCI (3)
  - UD elective (3)
  - Elective (3)
  - History (3) \*
  - UD ESCI (3)
  - UD Elective (3)
  - Elective (3)
  - UD Elective (3)

## Semester Totals 30 hrs

## Senior Year

- ESCI 4521 - Quantitative Methods
  - UD ESCI (3)
  - UD elective (3)
  - UD elective (3)
  - Elective (3)
  - UD ESCI (3)
  - UD ESCI (3)
  - UD elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Typical 4-Year Geology Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- ESCI 1020 - Landforms
  - Elective (4)
  - Foreign Language/B.A. (3)
- ENGL 1020 - English Comp/Analysis
- ESCI 1040 - Physical Geology
- MATH 1910 - Calculus I
  - Foreign Language/B.A. (3)

Semester Totals 28 hrs

### Sophomore Year

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ESCI 1050 - The Earth Through Time

- COMM 2381 - Oral Communication
  - Humanities/Fine Arts (3) \*
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
  - Fine Arts (3) \*
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American
  
- ESCI 3311 - Mineralogy/Petrology

Semester Totals 28 hrs

## Junior Year

- History (3) \*
- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- ESCI 3712 - Sedimentology/Stratigraphy
  - UD Elective (3)
  - History (3) \*
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II
- ESCI 4512 - Structural Geology
  - Social/Behavioral Sciences (3) \*

Semester Totals 28 hrs

## Summer of Third or Fourth Year

- ESCI 4622 - Geology Field Camp Summer Field Camp

## Senior Year

- UD ESCI (4)
- ESCI 4515 - Geographic Info Science
  - UD elective (3)
  - Social/Behavioral Sciences (3) \*
  - Elective (3)
  - Elective (3)
  - UD elective (4)
  - UD elective (4)
  - UD elective (3)



Semester Totals 30 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Minor**

### **Earth Sciences Minor**

#### **Requirements**

Completion of 20 semester hours in earth sciences courses, at least 9 of which must be upper division hours.

## **Department of English**

Program objectives for a B.A. in English are: (a) to develop skills in critical thinking, reading, and writing; (b) to have opportunities to consider the relationships among language, literature, culture, and writing; (c) to concentrate study of these interrelated areas in one of six endeavors, each with its own particular focus: African American literature, applied linguistics, creative writing, English as a second language, literature, and professional writing.

**Note: Students should see the English advisor who will explain the advantages of the various concentrations and assist students in developing an appropriate program of study.**

## **Major**

### **English, (B.A.)**

Program objectives for a B.A. in English are: (a) to develop skills in critical thinking, reading, and writing; (b) to have opportunities to consider the relationships among language, literature, culture, and writing; (c) to concentrate study of these interrelated areas in one of six endeavors, each with its own particular focus: African American literature, applied linguistics, creative writing, English as a second language, literature, and professional writing.

## University General Education Program (41 Hours)

See Graduation from the University for the University General Education Program requirements. English majors take ENGL 1010, ENGL 1020, and ENGL 2201 or ENGL 2202 to complete General Education Program Requirements and English Major requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## The Major (33 hours)

ENGL 1010, 1020, and 2201 or 2202 or equivalents with a minimum grade of "C" are prerequisites for all upper division (3000 and 4000-level) courses in the Department of English.

### Major Core (12 Hours)

- ENGL 3210 - British Lit to 1750
- ENGL 3220 - British Lit since 1750
- ENGL 3327 - American Literature to 1865

### One Course from

Note: Creative Writing Concentration must select ENGL 4599, 4604, or 4605. Professional Writing Concentration must select ENGL 3604 or ENGL 4602.

- ENGL 3501 - Modern English Grammar
- ENGL 3511 - Intro to Linguistics
- ENGL 3604 - Persuasive Writing
- ENGL 3701 - Lit Criticism/Theory
- ENGL 4501 - History of English Lang
- ENGL 4599 - Forms of Creative Nonfiction
- ENGL 4602 - Adv Composition
- ENGL 4604 - Forms of Poetry
- ENGL 4605 - Forms of Fiction

## Concentration (12 hours)

A concentration must be chosen from:

English - African-American Literature Concentration, (B.A.)

English - Professional Writing Concentration, (B.A.)

English - Creative Writing Concentration, (B.A.)

English - Language and Linguistics Concentration, (B.A.)

English - Literature Concentration, (B.A.)

English - English as a Second Language Concentration, (B.A.)

## Electives (9 hours)

Nine hours of upper-division ENGL courses.

### Note the Following:

1. Students should see the English advisor who will explain the advantages of the various concentrations and assist students in developing an appropriate program of study.
2. Courses taken to satisfy the core requirements may not be used to satisfy concentration requirements.
3. No more than a total of six (6) hours in ENGL 3100-ENGL 3109, ENGL 4101-ENGL 4109, and 3 hours in ENGL 4900 may be applied to the English major.
4. Students who wish to satisfy the requirements for both the English major and the endorsement to teach English in high school should consult the College of Education for licensure requirements.
5. ENGL 3500 and ENGL 3603 may not be used to satisfy any requirement for the English major.
6. ENGL 4900 and ENGL 4996 may not be used to satisfy required hours in any concentration.

## Honors Program

Honors sections of the required English courses on the freshman and sophomore levels (ENGL 1010, ENGL 1020, ENGL 2201, ENGL 2202) are offered through the University Honors program and are open to qualified students regardless of their major. On the junior and senior level, the Department of English offers an honors track open only to English majors, who are eligible to apply for admission to the program if they have a grade point average of 3.25 in their overall studies and in English. Honors students take special courses during their junior and senior years and write a senior honors thesis. Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in English." Moreover, the student's diploma and the record at the University of Memphis will reflect this distinction. Details of the program are available at the Department of English office.

## Typical 4-Year English Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities (3) \*
  - MATH (3-4) \*

- Foreign Language/B.A. (3)
- Elective (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Fine Arts (3) \*
  - Foreign Language/B.A. (3)
  - Elective (3)

Totals 30-31 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - History (3) \*
  - Elective (3)
  - Natural Science (4) \*
- COMM 2381 - Oral Communication
- ENGL 3210 - British Lit to 1750
  - History (3) \*
  - Elective (3)
  - Natural Science (4) \*
  - ENGL Core Elective (3)

Semester Totals 32 hrs

## Junior Year

- ENGL 3220 - British Lit since 1750
  - ENGL concentration (3)
  - Social/Behavioral Science (3) \*
  - Elective (3)
  - Elective (3)
- ENGL 3327 - American Literature to 1865
  - ENGL concentration (3)
  - Social/Behavioral Science (3) \*
  - Elective (3)
  - UD ENGL elective (3)

Semester Totals 30 hrs

## Senior Year

- UD ENGL elective (3)
- ENGL concentration (3)
- UD elective (3)
- UD elective (3)
- Elective (3)

- UD ENGL elective (3)
- ENGL concentration (3)
- UD elective (3)
- Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### English Minor

#### Requirements

Completion of 12 upper division hours in English (excluding ENGL 3500 and ENGL 3603).

### Accelerated Bachelor/Masters

### English, (Accelerated B.A./M.A)

This program allows outstanding undergraduates to begin the coursework for the Master of Arts in English during their senior year. Students are encouraged to begin planning to enter the Accelerated B.A./M.A. program early in their undergraduate career, in consultation with their advisor in the Department of English.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.A. degree while they also begin the coursework toward their M.A.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the English department. Each applicant will complete an interview with the graduate academic coordinator in English.

Students must also apply to the Graduate School for the accelerated B.A./M.A. program, which allows them to take graduate courses in English. To continue in the program past the B.A., students must apply for full admission into the Graduate School and into the English department's M.A. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

To get additional details about this program, consult the department advisor.

## Department of History

The Department of History introduces students to the richness and complexity of the human experience through a curriculum that covers all major geographic areas and time periods, and emphasizes both the unity of that experience and the diversity resulting from such factors as cultural, social, and gender differences. We seek to develop not only a knowledge of the past, but also an appreciation of history as an intellectual discipline that employs a wide variety of scholarly methodologies in its effort to understand that past. Students are taught to think and work as historians: to read critically and analytically both primary and secondary sources, to appreciate the complexity of historical issues and multiplicity of historical views, and to investigate a historical question or problem and communicate the results of that investigation. Through this broad preparation, history majors acquire essential knowledge and critical skills, which provide valuable assets for a wide spectrum of professions and occupations as well as the fundamental basis for advanced study. Program objectives for a B.A. in History are: (a) a fundamental knowledge of the past, including key historical events, ideas, figures, movements, and periods; (b) an awareness of the diversity of historical experiences over time and space; (c) the ability to recognize, locate, analyze critically, and utilize primary and secondary sources; (d) the ability to recognize and evaluate differing historical interpretations and methodologies; (e) the ability to research a topic thoroughly using both primary and secondary sources, and to present a clear and well-written historical argument based on that research; (f) express a high degree of satisfaction with the quality of the education received in that program.

### Major

#### History, (B.A.)

The Department of History introduces students to the richness and complexity of the human experience through a curriculum that covers all major geographic areas and time periods, and emphasizes both the unity of that experience and the diversity resulting from such factors as cultural, social, and gender differences. We seek to develop not only a knowledge of the past, but also an appreciation of history as an intellectual discipline that employs a wide variety of scholarly methodologies in its effort to understand that past. Students are taught to think and work as historians: to read critically and analytically both primary and secondary sources, to appreciate the complexity of historical issues and multiplicity of historical views, and to investigate a historical question or problem and communicate the results of that investigation. Through this broad preparation, history majors acquire essential knowledge and critical skills, which provide valuable assets for a wide spectrum of professions and occupations as well as the fundamental basis for advanced study. Program objectives for a B.A. in History are: (a) a fundamental knowledge of the past, including key historical events, ideas, figures, movements, and periods; (b) an awareness of the diversity of historical experiences over time and space; (c) the ability to recognize, locate, analyze critically, and utilize primary and secondary sources; (d) the ability to recognize and evaluate differing historical interpretations and methodologies; (e) the ability to research a topic thoroughly using both primary and secondary sources, and to present a clear and well-written historical argument based on that research; (f) express a high degree of satisfaction with the quality of the education received in that program.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## The Major (33 hours)

Majors must complete 33 semester hours in history courses. Of the 33 hours, at least 9 hours must be from HIST 1110, HIST 1120, HIST 2010, and HIST 2020; and at least 21 hours must be in upper-division courses. Of the 21 upper-division hours required, at least 6 must be taken outside of the European and United States fields and a maximum of 18 may be taken in any one field (African, Ancient, Asian, European, Latin American, Middle Eastern, United States).

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

History majors who have attained junior standing, successfully completed six semester hours of lower division history, and maintained a grade point average of at least 3.25 in overall studies and in history courses taken, are eligible for admission to the honors program in history. Students admitted to the program must take 15 hours of honors work, at least 9 of which must be taken in upper division history courses after admission to the departmental program. These 9 hours must include HIST 4012 and HIST 4996. The remaining 3 hours may be taken as an additional semester of HIST 4012 or in an upper-division history course with an honors contract that outlines additional honors-level requirements. Those who successfully complete the program and the regular B.A. requirements will have their degree conferred "With Honors in History." The student's diploma and the record at the University of Memphis will be similarly endorsed. A detailed description of the program, together with application forms for admission, may be obtained in the History Department office.

## Typical 4-Year History Sequence

### Freshman Year

- ENGL 1010 - English Composition

- MATH (3-4) \*
- HIST LD (3) \*\*\*
- Foreign Language/B.A. (3) \*\*
- Elective (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - HIST LD (3) \*\*\*
  - Foreign Language/B.A. (3) \*\*
  - Social/Behavioral Sciences (3) \*

## Semester Totals 30-31 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - HIST LD (3) \*\*\*
  - Natural Science (4) \*
  - Fine Arts (3)
  - Elective (3)
- COMM 2381 - Oral Communication
  - Elective (3)
  - Natural Science (4) \*
  - Social/Behavioral Sciences (3) \*
  - UD elective (3)

## Semester Totals 32 hrs

## Junior Year

- UD Elective (3)
- Elective (3)
- Elective (3)
- UD HIST (3)
- UD HIST (3)
- Humanities/Fine Arts (3)
- Elective (3)
- UD HIST (3)
- UD HIST (3)
- UD elective (3)



Semester Totals 30 hrs

## Senior Year

- UD HIST (3)
- UD HIST (3)
- UD elective (3)
- UD elective (3)
- Elective (3)
- UD HIST (3)
- UD elective (3)
- UD elective (3)
- Elective (4)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\* This plan assumes you are starting your language courses at the intermediate (2010/2020) level required for the degree. If you need to start your language sequence at an earlier level, please account for that and plug those courses into the plan. This will require that you remove one to two "elective" slots and replace them with the necessary language courses.

\*\*\*HIST LD - choose 3 from HIST 1110, HIST 1120, HIST 2010, or HIST 2020

## Minor

### History Minor

#### Requirements

Minors must complete 21 semester hours in history courses. Of the 21 hours, at least 9 hours must be from

- HIST 1110 - World Civilization I
- HIST 1120 - World Civilization II
- HIST 2010 - U S to 1877
- HIST 2020 - The U S Since 1877
  - at least 9 hours must be in upper- division courses.

## Interdisciplinary Studies Office

Employers consistently indicate that they are seeking students who have, "the capacity to think critically, communicate clearly, solve complex problems, can demonstrate practical skills that span all areas of study." In answer to this challenge, The College of Arts and Sciences, through its Interdisciplinary Studies Program, offers opportunities to study and gain experience in some of today's most challenging and exciting fields; international studies, environmental studies, differing cultures, religious beliefs, emergency and disaster management, and gender and race. These areas of study are intentionally designed to explore new ways of looking at the problems and issues through coursework that crosses academic departments and traditional academic majors. These programs also place an emphasis on hands-on opportunities for research, field experience, and internships. Interdisciplinary programs can be chosen as majors or added as specialized minors to compliment another other majors.

### Major

#### African and African American Studies, (B.A.)

Program objectives for a B.A. in African and African American Studies are to: (a) define the term "diaspora" and describe the history, scope and impact of the post-Renaissance diaspora of African peoples; (b) critique the experiences of African and African American women within the context of the collective experiences of Africans and African Americans and the world as a whole; (c) apply methodological approaches and analytical skills used in the humanities, the social and behavioral sciences, or the arts to the study of the experiences of Africans and people of African descent in the Diaspora; (d) demonstrate an understanding of the links between African cultural institutions and those of people of African descent in the Diaspora; (e) compare and contrast the history and cultures of peoples of Africa to the history and cultures of peoples of African descent in the Diaspora.

#### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

#### College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements and are listed above.

#### The Major (30 hours)

#### Major Core (18 hours):

#### Completion of

- AAAS 2100 - Intro Afr/Afr American Study

- AAAS 3100 - Research Method/Afr American

### Or One of the Following:

- ANTH 4010 - Ethnographic Methods
- CJUS 3130 - Research Methods CJUS
- COMM 3330 - Communication Research Methods
- SOCI 3322 - Methods of Social Research

### Completion of

- AAAS 4100 - Seminar Afr/Afr Amer Studies and one course selected from each concentration (9 hours).

### Concentration (12 hours):

#### Humanities:

- AAAS 4351 - Ghanaian Hist/Culture
- ENGL 3325 - Af/Am Lit thru Harlem Ren
- ENGL 3326 - Af/Am Lit since Harlem Ren
- ENGL 4372 - Af/Am Author/Harlem Ren
- ENGL 4373 - Af/Am Author since Harlem Ren
- ENGL 4374 - African-Amer Lit Movements
- ENGL 4521 - Language and Society
- HIST 3233 - Caribbean History
- HIST 3273 - Islamic History to 1405
- HIST 3281 - History/Africa to 1500
- HIST 3282 - History of Africa since 1500
- HIST 3670 - Civil War/Reconstruction
- HIST 3840 - U S Constitutional History
- HIST 3881 - African American History
- HIST 4022 - Oral History
- HIST 4050 - Special Topics in History
- HIST 4051 - Special Topics in History
- HIST 4052 - Special Topics in History
- HIST 4053 - Special Topics in History
- HIST 4054 - Special Topics in History
- HIST 4055 - Special Topics in History
- HIST 4056 - Special Topics in History
- HIST 4057 - Special Topics in History
- HIST 4058 - Special Topics in History
- HIST 4059 - Special Topics in History
- HIST 4060 - Special Topics in History
- HIST 4061 - Special Topics in History
- HIST 4062 - Special Topics in History
- HIST 4063 - Special Topics in History
- HIST 4064 - Special Topics in History
- HIST 4065 - Special Topics in History
- HIST 4066 - Special Topics in History
- HIST 4067 - Special Topics in History
- HIST 4068 - Special Topics in History

- HIST 4069 - Special Topics in History (Special Topics related to African American experience)
- HIST 4222 - Race/Class in Latin America
- HIST 4283 - History/South Africa
- HIST 4288 - West Africa/Diaspora
- HIST 4289 - African Women's History
- HIST 4853 - African American Women
- HIST 4871 - U S Urban History
- HIST 4879 - Africa to the Americas
- HIST 4880 - Slavery/Freedom/Segregation
- HIST 4882 - Civil Rights Movement
- PHIL 3452 - Feminist Theory
- PHIL 3741 - African American Philosophy

## Social and Behavioral Sciences:

- AAAS 4251 - African Religions/Diaspora
- ANTH 3242 - Peoples of Africa
- ANTH 3282 - American Communities
- ANTH 3511 - Culture/Kin/Family
  - ANTH 4051
- ANTH 4120 - Africa's New World Comm
- ANTH 4220 - Cultural Perspec/Environment
- ANTH 4352 - Old World Archaeology
- ANTH 4411 - Urban Anthropology
- ANTH 4412 - Neighborhood Development
- ANTH 4571 - Race and Health Disparities
- ANTH 4660 - Museum Collections
- ANTH 4661 - Collections Research
- ANTH 4662 - Museum Exhibitions
- CJUS 3510 - Law and Society
- CJUS 4460 - Race/Ethnicity/Gender/America
- ESCI 4431 - Urban Geography
- ECON 4740 - Health Care Economics
- POLS 3306 - Latin American Govt/Politics
- POLS 3320 - Human Rights/World Politics
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3415 - Feminist Political Theory
- POLS 3420 - Race and Politics in U.S.
- POLS 4101 - Political Statistics
- POLS 4222 - Urban Politics
- POLS 4317 - Democratic Transitions
- POLS 4415 - African-Am Pol Thght to 1900
- POLS 4416 - African-Am Pol Tht from 1900
- POLS 4511 - International Security
- SOCI 3112 - Contemporary Social Problems
- SOCI 3311 - Social Statistics
- SOCI 3401 - Social Inequality
- SOCI 3420 - Sociology of the South
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 4420 - Racial Inequality
- SOCI 4442 - Sociology of Poverty
- SOCI 4460 - Black/White Women in South
- SOCI 4631 - Cities in Change

## The Arts:

- AAAS 4451 - Rhetoric of Hip Hop
- ARTH 4112 - Egypt Art-Old Kingdom
- ARTH 4113 - Egypt Art-New Kingdom
- ARTH 4181 - Arts Africa/Oceania/N America
- ARTH 4183 - Visual Arts of Africa
- ARTH 4185 - African American Art
- ARTH 4660 - Museum Collections
- ARTH 4662 - Museum Exhibitions
- COMM 3360 - Rhetoric/Pop Culture
- COMM 3361 - African-American Rhetoric
- COMM 4341 - Interpersonal Communication
- COMM 4364 - Voices/American Women
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4804 - Blues
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music
- THEA 4544 - Thea/African Diaspora

## Electives (40-43 hours)

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year African and African American Studies Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3-4) \*
  - Elective (3)
  - Foreign Language/B.A. (3)
- AAAS 2100 - Intro Afr/Afr American Study
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Elective (3)
  - Foreign Language/B.A. (3)
  - Humanities (3) \*

## Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - Social/Behavioral Sci. (3) \*
- AAAS 3100 - Research Method/Afr American
  - Natural Science (4) \*
  - Elective (3)
  - History (3) \*
  - Elective (3)
  - Fine Arts (3) \*
  - Natural Science (4) \*
  - AAAS Arts Core (3)

## Semester Totals 32 hrs

### Junior Year

- AAAS Humanities Core Elective (3)
- Social/Behavioral Sciences (3) \*
- History (3) \*
- COMM 2381 - Oral Communication
  - AAAS conc. elective (3)
  - AAAS Soc/Behav core elective (3)
  - AAAS conc. elective (3)
  - UD elective (3)
  - UD elective (3)
  - Elective (3)

## Semester Totals 30 hrs

### Senior Year

- UD elective (3)
- AAAS conc. elective (3)
- UD elective (3)
- Elective (3)
- Elective (3)
- AAAS 4100 - Seminar Afr/Afr Amer Studies
  - UD elective (3)
  - AAAS conc. elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120-121

\*Must satisfy University General Education Program Requirement

## **International Studies, (B.A.)**

The International Studies program provides the opportunity to bring the knowledge of several traditional disciplines to bear upon a focal point of human relationships and problems that cross national and cultural boundaries. The program objectives are designed to serve the student who seeks knowledge of the range of contemporary and possible future problems that confront international society and an understanding of alternative national and cultural perspectives on solutions to those problems. The program also serves the needs of students planning a career in the Foreign Service or related agencies of the federal government and students preparing for employment abroad in the private sector, or in international organizations, private or public. The program objectives are to: (a) learn key issues of contention related to the international system; (b) learn central economic, historical, cultural, geographical, and political concepts related to the study of the international system; (c) demonstrate competency in at least one modern foreign language; (e) be able to conduct and present scholarly research on international issues; (f) complete at least one internationally-related experiential learning activity.

The program emphasis is on the course work in history, political science, economics, anthropology, and geography, with contributions from other social science disciplines and art. Within the program, the student is required to concentrate a part of the work in the field of American foreign policy or in one of five areas of the world. Students are encouraged to pursue the study of a foreign language and to seek opportunities for travel and study abroad. The student's program should be planned in consultation with the Director or Associate Director of International Studies.

## **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements. Note that the following are required as prerequisites for upper-division courses in the International Studies major: Social Science:

- ECON 2020 - Intro to Microeconomics
- POLS 1501 - International Relations

## **College and Degree (B.A.) Requirements (6-9 hours)**

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements and are listed above.

## The Major (39 hours)

### Core requirements (27 hours)

#### 1. Lower Division Core (6 credits)

**a. Select 1 from the following:**

- POLS 1501 - International Relations

or

- INTL 1101 - Introduction to International Studies

**b. Select 1 from the following (unless taken to satisfy previous requirement)**

- ANTH 1200 - Cultural Anthropology
- ESCI 1301 - Survey of World Regions
  - INTL 1101
- POLS 1301 - Intro to Comparative Politics
  - POLS 1501

#### 2. Upper Division Core (21 credits)

**a. Global Studies (Select 9 hours from the following 4 courses)**

- ANTH 3200 - Peoples/Cultures World
- ECON 4350 - International Econ
- POLS 4508 - Theories Internatl Relations
- HIST 4260 - World Since 1945

**b. International Political, Economic, and Development Processes - Select 9 hours from at least 2 disciplines**

- ANTH 3500 - Anth of Global Health
- ANTH 4220 - Cultural Perspec/Environment
- ANTH 4415 - Anthropology Human Rights
- ANTH 4416 - Culture/Identity/Power
- COMM 4375 - Intercultural Communication
- ECON 4351 - International Monetary Theory/Policy
- ENGL 4442 - Studies in World Literature
- ENGL 4521 - Language and Society
- ESCI 4430 - Economic Geography
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3505 - International Organizations
- POLS 4504 - International Law
- POLS 4510 - Politics of Global Economy
- SOCI 2100 - Sociology of Globalization
- UNIV 3550 - Clash of Cultures

Note that courses taken here cannot be double-counted for concentration credit hours



## Seminar

- INTL 4601 - Seminar International Studies

## Concentration (9 hours)

### Global Studies

Global Studies students gain functional expertise in one of the following areas of emphasis: (1) Conflict, Peace, and Human Rights, (2) Global Governance & Political Economy (3) International Development & Environmental Sustainability, (4) Global Health & Ethics, or (5) Global Communication, Administration, & Management. Students choose credits in at least 2 disciplines in consultation with their advisor from the following:

- ANTH 3200 - Peoples/Cultures World
- ANTH 3500 - Anth of Global Health
- ANTH 4413 - Anth of Tourism/Environment
- ANTH 4415 - Anthropology Human Rights
- ANTH 4416 - Culture/Identity/Power
- ANTH 4417 - Hidden Worlds of Food
- ANTH 4510 - Health/Culture/Environ Justice
- ANTH 4531 - Alcohol/Drugs/Culture
- ANTH 4541 - Nutritional Anth
- ANTH 4551 - Culture/Sex/Childbirth
- CJUS 2110 - Comparative Justice System
- CJUS 4190 - Terrorism Soc/Legl Prsp
- COMM 4375 - Intercultural Communication
- ECON 4230 - Ecological Economics
- ECON 4351 - International Monetary Theory/Policy
- ENGL 4442 - Studies in World Literature
- ENGL 4511 - Language and Literature
- ENGL 4521 - Language and Society
- ENGL 4531 - Methods and Techniques ESL
- ENGL 4532 - Skills/App/Assess ESL
- ESCI 4252 - Global Environmental Change
- FIR 4550 - International Finance
- HIST 3803 - American Diplomatic History
- HIST 3811 - U S Military/Naval History
- HIST 3815 - World War II
- HIST 3817 - Vietnam War Global Prsp
- HPRM 4400 - International Hospitality
- JDST 4511 - Holocaust Studies
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MKTG 4530 - International Marketing
- PADM 3601 - Public Admin
- PADM 4226 - Intro Nonprofit Organizations
- PADM 4227 - Issues/Nonprofit Admin
- PADM 4401 - Comparative Public Adm
- PHIL 3411 - Contemporary Moral Problems
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics
- POLS 3310 - Politics/Developed World
- POLS 3320 - Human Rights/World Politics
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3340 - Power/Politics/State

- POLS 3505 - International Organizations
- POLS 3506 - American Foreign Policy
- POLS 3507 - Terrorism
- POLS 4315 - Revolution/Political Violence
- POLS 4504 - International Law
- POLS 4506 - Prob American Foreign Policy
- POLS 4510 - Politics of Global Economy
- POLS 4511 - International Security
- POLS 4512 - Global Environmental Politics
- SLS 4165 - Sport/Global City
- SLS 4175 - Internationl Persp Sport Mgmt
- UNIV 4511 - Holocaust Studies

## Area Studies

Choose 3 courses in at least 2 disciplines in consultation with academic advisor. (9 credits)

- ANTH 3200 - Peoples/Cultures World
- ANTH 3242 - Peoples of Africa
- CHIN 3402 - Readings in Chinese Culture
- CHIN 4301 - Modern Chinese Fiction
- CHIN 4304 - Advanced Chinese I
- CHIN 4305 - Advanced Chinese II
- CHIN 4501 - Intro to Chinese Linguistics
- CJUS 2110 - Comparative Justice System
- CLAS 2481 - Mythology
- ENGL 3220 - British Lit since 1750
- ENGL 4442 - Studies in World Literature
- ENGL 4511 - Language and Literature
- ENGL 4521 - Language and Society
- ENGL 4531 - Methods and Techniques ESL
- ENGL 4532 - Skills/App/Assess ESL
- ESCI 1401 - Intro/Cultural Geography
- ESCI 4307 - Thematic Studies/China
- FREN 3401 - French Civilization
- FREN 3411 - Intro To French Lit
- FREN 3791 - French for Commerce I
- FREN 3900 - French Culture and Society
- FREN 4412 - 17th & 18th Centuries
- FREN 4413 - 19th Century French Lit
- FREN 4414 - 20th Century French Lit
- FREN 4415 - Francophone Literature
- FREN 4780 - Individual Study French
- FREN 4801 - Cont France/Francophone World
- GERM 3411 - Intro German Lit and Culture I
- GERM 3412 - Intro Germ Lit and Culture II
- GERM 3791 - Business German I
- GERM 3792 - Business German II
- GERM 4443 - German Writers 20th Century
- GERM 4451 - German Drama
- GERM 4465 - German Narrative Prose
- GERM 4466 - German Poetry
- GERM 4480 - Goethe
- GERM 4501 - Teaching German Pedagogy
- HIST 3122 - England Since 1714
- HIST 3211 - Colonial Latin America
- HIST 3212 - Latin American Nations
- HIST 3273 - Islamic History to 1405
- HIST 3275 - History of Jewish People
- HIST 3282 - History of Africa since 1500
- HIST 3291 - Modern Asia

- HIST 3302 - Modern Europe 1800-Present
- HIST 3815 - World War II
- HIST 3817 - Vietnam War Global Prsp
- HIST 4145 - History of Modern Germany
- HIST 4162 - Russia after 1917
- HIST 4213 - Women/Gender/Latin America
- HIST 4221 - 20th Century Latin Amer Rev
- HIST 4222 - Race/Class in Latin America
- HIST 4272 - Modern Middle East
- HIST 4283 - History/South Africa
- HIST 4288 - West Africa/Diaspora
- HIST 4292 - Modern China 1800-Present
- HIST 4294 - Modern Japan 1800-Present
- HIST 4461 - Europe 1914-1945
- ITAL 3311 - Adv Conversation/Composition I
- ITAL 3312 - Adv Conversation/Compositn II
- ITAL 3411 - Intro to Italian Literature
- ITAL 3900 - Italian Culture and Society
- JAPN 3401 - Intro to Japanese Literature
- JAPN 3402 - Readings/JAPN Culture
- JAPN 3900 - Japan Culture/Society
- JAPN 4401 - Advanced Japanese I
- JAPN 4402 - Advanced Japanese II
- JAPN 4701 - Japn/Professional Purpose I
- LALI 4442 - Italian Cinema
- PHIL 3721 - Chinese Philosophy
- POLS 3302 - West Europe Govt/Politics
- POLS 3306 - Latin American Govt/Politics
- POLS 3309 - Govt/Politics of Mid East
- POLS 3310 - Politics/Developed World
- POLS 4307 - Govt and Pol Communist China
- PORT 4024 - Brazilian Short Story
- SPAN 3311 - Intrmdiate Conversation
- SPAN 3312 - Adv Conversation
- SPAN 3313 - Advanced Composition
- SPAN 3550 - Latin America Country& People
- SPAN 4306 - Applied Span Linguistics
- SPAN 4410 - Spanish Lit and Civilization
- SPAN 4431 - Contemporary Spanish Prose
- SPAN 4432 - Contemp Spanish Poetry/Drama
- SPAN 4510 - Spanish Amer Lit/Civilization
- SPAN 4561 - Pre-Contemp Span Amer Fiction
- SPAN 4562 - Contemporary Span Amer Fiction
- SPAN 4563 - Hispanic Literature Genres
- SPAN 4701 - Spanish for Commerce I
- SPAN 4702 - Spanish for Commerce II
- SPAN 4703 - Languages/Cultures/Communities
- UNIV 4511 - Holocaust Studies

## Foreign Language (6 hours)

In addition to the Bachelor of Arts language requirement, completion of an additional six hours in that same language at the 3000 level or higher.

## Experiential Activity

Students are required to complete an international or experiential learning experience. This may be fulfilled through participation in a formal education abroad program or through foreign based work, service, or internship activities. A U.S.-based experience of an international nature or prior international experience may be considered. This experience must be approved by the Director.

## Electives (21-22 hours)

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year International Studies Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Elective (3)
  - Foreign Language/B.A. (3)
  - MATH (3-4) \*
- POLS 1501 - International Relations
- ENGL 1020 - English Comp/Analysis
  - Lower Division Core Selection (3)
  - Foreign Language/B.A. (3)
  - Humanities/Fine Arts (3) \*

Elective (3)

### Semester Totals 30-31 hrs

### Sophomore Year

- History (3) \*
- Social/Behavioral Science (if needed) (3)
- Natural Science (4) \*
- UD Foreign Language (3)
- Fine Arts (3) \*
- Elective (3)
- Natural Science (4) \*
- UD Foreign Language (3)
- History (3) \*
- COMM 2381 - Oral Communication

### Semester Totals 32 hrs

## Junior Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - Upper Division Core Selection (3)
  - UD Elective (3)
  - Upper Division Core Selection (3)
  - Inter. Processes (3)
  
  - Upper Division Core Selection (3)
  - UD Elective (3)
  - Inter. Processes (3)
  - Inter. Processes (3)
  - Elective (3)

Semester Totals 30 hrs

## Senior Year

- INTL 4601 - Seminar International Studies
  - INTL conc. elective (3)
  - UD elective (3)
  - UD elective (3)
  - Elective (3)
  
  - INTL conc. elective (3)
  - UD elective (3)
  - Elective (4)
  - INTL conc. elective (3)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### African and African American Studies Minor

Completion of 18 semester hours including AAAS 2100, AAAS 3100, and 12 hours of electives from the following groups, with at least 3 hours from each group. Students may also choose other courses not on the following list as substitutions with the approval of the African and African American Studies advisor:

## Requirements

### Humanities:

- AAAS 4351 - Ghanaian Hist/Culture
- ENGL 3325 - Af/Am Lit thru Harlem Ren
- ENGL 3326 - Af/Am Lit since Harlem Ren
- ENGL 4372 - Af/Am Author/Harlem Ren
- ENGL 4373 - Af/Am Author since Harlem Ren
- ENGL 4374 - African-Amer Lit Movements
- ENGL 4521 - Language and Society
- HIST 3233 - Caribbean History
- HIST 3273 - Islamic History to 1405
- HIST 3281 - History/Africa to 1500
- HIST 3282 - History of Africa since 1500
- HIST 3670 - Civil War/Reconstruction
- HIST 3840 - U S Constitutional History
- HIST 3881 - African American History
- HIST 4022 - Oral History
- HIST 4050 - Special Topics in History
- HIST 4051 - Special Topics in History
- HIST 4052 - Special Topics in History
- HIST 4053 - Special Topics in History
- HIST 4054 - Special Topics in History
- HIST 4055 - Special Topics in History
- HIST 4056 - Special Topics in History
- HIST 4057 - Special Topics in History
- HIST 4058 - Special Topics in History
- HIST 4059 - Special Topics in History
- HIST 4060 - Special Topics in History
- HIST 4061 - Special Topics in History
- HIST 4062 - Special Topics in History
- HIST 4063 - Special Topics in History
- HIST 4064 - Special Topics in History
- HIST 4065 - Special Topics in History
- HIST 4066 - Special Topics in History
- HIST 4067 - Special Topics in History
- HIST 4068 - Special Topics in History
- HIST 4069 - Special Topics in History (Special Topics related to African American experience)
- HIST 4283 - History/South Africa
- HIST 4288 - West Africa/Diaspora
- HIST 4289 - African Women's History
- HIST 4853 - African American Women
- HIST 4871 - U S Urban History
- HIST 4879 - Africa to the Americas

- HIST 4880 - Slavery/Freedom/Segregation
- HIST 4882 - Civil Rights Movement
- PHIL 3452 - Feminist Theory
- PHIL 3741 - African American Philosophy

## Social and Behavioral Sciences:

- AAAS 4251 - African Religions/Diaspora
- ANTH 3242 - Peoples of Africa
- ANTH 3282 - American Communities
- ANTH 3511 - Culture/Kin/Family
- ANTH 4010 - Ethnographic Methods
  - ANTH 4051
- ANTH 4120 - Africa's New World Comm
- ANTH 4220 - Cultural Perspec/Environment
- ANTH 4352 - Old World Archaeology
- ANTH 4411 - Urban Anthropology
- ANTH 4412 - Neighborhood Development
- ANTH 4571 - Race and Health Disparities
- ANTH 4660 - Museum Collections
- ANTH 4661 - Collections Research
- ANTH 4662 - Museum Exhibitions
- CJUS 3510 - Law and Society
- CJUS 4460 - Race/Ethnicity/Gender/America
- ESCI 4431 - Urban Geography
- ECON 4740 - Health Care Economics
- POLS 3306 - Latin American Govt/Politics
- POLS 3320 - Human Rights/World Politics
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3415 - Feminist Political Theory
- POLS 3420 - Race and Politics in U.S.
- POLS 4101 - Political Statistics
- POLS 4222 - Urban Politics
- POLS 4317 - Democratic Transitions
- POLS 4415 - African-Am Pol Thght to 1900
- POLS 4416 - African-Am Pol Tht from 1900
- POLS 4511 - International Security
- SOCI 3112 - Contemporary Social Problems
- SOCI 3311 - Social Statistics
- SOCI 3401 - Social Inequality
- SOCI 3420 - Sociology of the South
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 4420 - Racial Inequality
- SOCI 4442 - Sociology of Poverty
- SOCI 4460 - Black/White Women in South

## The Arts:

- ARTH 4111 - Art/Archaeology of Egypt
- ARTH 4112 - Egypt Art-Old Kingdom
- ARTH 4113 - Egypt Art-New Kingdom
- ARTH 4181 - Arts Africa/Oceania/N America
- ARTH 4183 - Visual Arts of Africa
- ARTH 4185 - African American Art

- ARTH 4660 - Museum Collections
- ARTH 4662 - Museum Exhibitions
- COMM 3360 - Rhetoric/Pop Culture
- COMM 3361 - African-American Rhetoric
- COMM 4341 - Interpersonal Communication
- COMM 4364 - Voices/American Women
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4804 - Blues
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music
- THEA 4544 - Thea/African Diaspora

## Asian Studies Minor

### Requirements

A minimum of 18 semester hours, including

- CHIN 2010 - Intermediate Chinese I
- and
- CHIN 2020 - Intermediate Chinese II
- or
- JAPN 2010 - Intermediate Japanese I
- and
- JAPN 2020 - Intermediate Japanese II

### 6 Semester Hours from

- CHIN 4301 - Modern Chinese Fiction
- HIST 3291 - Modern Asia
- HIST 4292 - Modern China 1800-Present
- HIST 4294 - Modern Japan 1800-Present
- PHIL 3721 - Chinese Philosophy

### 6 Semester Hours from

- ESCI 4307 - Thematic Studies/China
- POLS 4307 - Govt and Pol Communist China



- UNIV 4506 - The Chinese

## Classical Studies Minor

Those who value education because they value the ability to think clearly and express ideas powerfully, often choose the liberal arts. The Classical Studies Minor is proposed to expose students to the very foundation of the liberal arts and "Western Tradition." A minor in Classical Studies can serve as a prestigious and powerful springboard for professional careers in areas such as law, journalism, medicine, and business. Those who are interested in the beauty and study of antiquity may also pursue careers in teaching, academics, or museum work. The Classical Studies minor is comprised of courses which span different departments and colleges.

## Requirements

A total of 18 hours as follows:

### Core:

9 hours from the following with no more than 2 courses from any one subject area:

- LATN 1010 - Elementary Latin I
- LATN 1020 - Elementary Latin II
- LATN 2010 - Intermediate Latin I
- LATN 2020 - Intermediate Latin II
  - GREK 1010 - Elementary Greek I (3)
  - GREK 1020 - Elementary Greek II (3)
  - GREK 2010 - Intermediate Greek I (3)
  - GREK 2020 - Intermediate Greek II (3)
- CLAS 2481 - Mythology
- POLS 1101 - Intro Ancient Political Thgt

### Elective Courses:

9 hours from the following with no more than 2 courses from any one subject area:

- ARTH 4111 - Art/Archaeology of Egypt
- ARTH 4112 - Egypt Art-Old Kingdom
- ARTH 4113 - Egypt Art-New Kingdom
- ARTH 4121 - Ancient Art Near East
- ARTH 4123 - Greek Art
- ARTH 4124 - Roman Art
- ARTH 4125 - Art/Archaeology Pompeii
- ARTH 4129 - Ancient/Medieval Architecture
- CLAS 3021 - Medical Terminology
  - CLAS 3412 - Roman Culture (3)
- CLAS 3413 - Greek Lit in Translation
- CLAS 3414 - Roman Lit in Translation
  - CLAS 4000 - Capital Punishment in the Ancient World (3)
  - CLAS 4001 - Science and Engineering in Classical Antiquity (3)
- CLAS 4780 - Individual Study Classics

- CLAS 4791 - Studies in Classics
- ENGL 4461 - Bible as Literature
- HIST 3320 - Ancient World
- HIST 4320 - Ancient Near East
- HIST 4321 - Greek Experience
- HIST 4322 - The Roman World
- HIST 4323 - Egypt of the Pharaohs
- HIST 4361 - History of Byzantine Empire
- PHIL 3001 - History of Ancient Philosophy
- PHIL 4211 - Ancient Philosophy
- POLS 3401 - Legal/Pol Thght Classical

## Cognitive Science Minor

This minor exposes students to Cognitive Science, the interdisciplinary study of the mind. Courses in the minor come from psychology, computer science, philosophy, and linguistics and provide a framework for addressing issues related to human-computer interaction, theory of mind, artificial intelligence, education, marketing, and many other areas.

The minor is administered by the [Institute for Intelligent Systems](#) and students in the minor are encouraged to attend the public weekly [Cognitive Science](#) Seminar and participate in [lab research](#).

Psychology majors are not eligible for the minor and should instead pursue the Cognitive Science Concentration within their major.

## Requirements

### The Minor

18 semester hours, 9 hours from the core, 3 hours in computer science, and 6 hours from the list of approved electives.

### Core (9 hours)

- PSYC 1030 - General Psychology
- PSYC 3303 - Thinking/Cognitive Processes
- PSYC 3530 - Psychology of Language

### Computer Science Requirement

Select one course from the following:

- COMP 1800 - Problem Solving/Computers
- COMP 4001 - Computer Programming
- COMP 1900 - CS1: Intro Comp Science (4)

## Electives (6 hours-cannot be from Major)

Select two courses from the following:

- PHIL 3460 - Nature/Mind/Knowledge
- PHIL 4421 - Philosophy of Mind
- PHIL 4661 - Philosophy of Science
- ECON 4512 - Behavioral Economics
- COMP 2700 - Discrete Structures
- COMP 4720 - Intro Artificial Intelligence
- MATH 2120 - Differential Equations
- MATH 4083 - Dynamical Systems/Chaos
- ENGL 3511 - Intro to Linguistics

## Emergency Management Minor

The interdisciplinary Emergency Management Minor is designed for students with a diversity of backgrounds and interest in applying that background to emergency management, community resilience to disaster, environmental hazards mitigation, emergency management response, and business continuity/disaster recovery, and will address the following critical knowledge:

- the physical and social dimensions of disasters through combining knowledge from various physical, social, and applied disciplines;
- the intersection of public policy to disaster risk, response, and mitigation;
- the intersection of the private, nonprofit, and governmental sectors and how this effects emergency preparedness, mitigation, and recovery;
- sustainable development, planning for and response to extreme events and change in our physical and human landscapes; and
- communication dynamics and persuasive communication.

## Requirements

### The Minor

18 semester hours, 9 hours from the core and 9 hours from the list of approved electives.

### Core (9 hours)

- EMGT 3100 - Seminar in Emergency Management (ESCI 3100/PADM 3100)

### Select One from:

- ESCI 4251 - Environmental Hazards
- ESCI 3131 - Severe Weather
- CJUS 4190 - Terrorism Soc/Legl Prsp

## Capstone Experience:

pre-approved internship experience related specifically to emergency management policy, procedures, planning, etc. Alternatively, the student could complete a research seminar/project on a relevant and pre-approved emergency management topic. Select one from:

- EMGT 4000 - Internship
- ESCI 4621 - Investigations In GEOG
- CJUS 4100 - Ind Dir Studies

## Electives (9 hours)

Three courses (9 hours), none of which have been used to fulfill the core requirements, from among the following groups with no more than two courses (6 hours) from the same group:

### Physical Management:

- ESCI 4251 - Environmental Hazards
- ESCI 3131 - Severe Weather
- ESCI 4551 - Urban Planning Studio
  - ARCH 4551 - Site and Environmental Planning

### Human (Social/Cultural/Legal/Political):

- CJUS 4190 - Terrorism Soc/Legl Prsp
- ANTH 4510 - Health/Culture/Environ Justice
- PADM 3601 - Public Admin
- PADM 4221 - Issues/Urban Admin
- SOCI 3701 - Individual and Society
- SOCI 3401 - Social Inequality
- ANTH 4220 - Cultural Perspec/Environment
- COMM 3322 - Theories of Persuasion

## Note

With approval from the Emergency Management advisor, special topics courses related to emergency management topics may be substituted to fulfill requirements for the minor.

## Environmental Studies Minor

The Interdisciplinary Environmental Studies Minor Program (18 hours) is intended to provide all students with the opportunity to obtain a broad-based knowledge of the environmental issues facing our planet; knowledge that spans the biological-physical threats and solutions, as well as behavioral, social, economic, and design implications. The Environmental Studies Program fosters interdisciplinary study among diverse course offerings in Anthropology, Architecture, Biology, Business, Chemistry, Earth Sciences, Economics, Philosophy, Physics, and Political Science.

## Requirements

### Students Pursuing Behavioral-Humanistic-Design Emphasis

Students pursuing behavioral-humanistic-design emphasis must select two courses (6 hours) from the following offerings:

- BIOL 1020 - Biology of Organisms
- and
- BIOL 1021 - Biology of Organisms Lab
- CHEM 1010 - Chemistry of Materials
- and
- CHEM 1011 - Chemistry of Materials Lab
- ESCI 1020 - Landforms
- ESCI 1103 - The Human Planet
- ESCI 1010 - Weather and Climate
- or
- ARCH 3421 - Environmental Systems with ARCH 3713 - Design Studio 3

### Students Pursuing an Environmental Science Emphasis

Students pursuing an environmental science emphasis must select two courses (6 hours) in different disciplines from the following offerings:

- BIOL 3050 - General Ecology
- BIOL 4055 - Ecology/Environment Iss
- CHEM 4001 - Environmental Chemistry
- ESCI 4251 - Environmental Hazards
- ESCI 4252 - Global Environmental Change
- PHYS 4222 - Environmental Physics

### All Environmental Studies Students

All Environmental Studies students also select three elective courses (9 hours) from the following offerings:

- ANTH 4220 - Cultural Perspec/Environment
- ANTH 4510 - Health/Culture/Environ Justice
- ECON 4230 - Ecological Economics
- ESCI 4201 - Urbanization/Environment
- PHIL 3515 - Environmental Ethics
- POLS 4512 - Global Environmental Politics
- ARCH 4421 - Sustainable Design

## Additional Requirements

In addition to these elective courses, all Environmental Studies students are required to take one core course:

- ENVR 4000 - Environ Studies Directed Rsrch

## Healthcare and Society Minor

This minor provides students with the opportunity to develop the additional skills that professional schools in health and medical fields are seeking outside of the required science coursework. The course options are designed to enhance the student's understanding of personal wellness, social inequalities in healthcare, provider-patient dynamics and communication, biomedical ethics, and cultural influences on health behavior.

## Requirements

### The Minor:

18 semester hours of required courses and electives:

### Required Core Courses:

One of

- PSYC 1030 - General Psychology
- or
- SOCI 1010 - Introduction to Sociology
- COMM 3012 - Health Communication
- PHIL 3514 - Biomedical Ethics \*

### Note

\* Students planning to take the MCAT should take both PSYC 1030 and SOCI 1010 but only one course will count toward the minor requirements.

## One Course from Each of the Three Following Categories:

### Health and Wellness:

- EDPR 2111 - Development Across Lifespan
- HLSC 2100 - Wellness Concepts Practice
- NUTR 2202 - Nutrition
- HLSC 2200 - Introduction to Public Health/Health Studies

### Cultural Competency:

- ANTH 4510 - Health/Culture/Environ Justice
- ANTH 4521 - Culture, Soc & Mental Health
- ANTH 4571 - Race and Health Disparities
- ECON 4740 - Health Care Economics
- SOCI 3401 - Social Inequality
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 4420 - Racial Inequality
- SOCI 4442 - Sociology of Poverty

### Social and Psychological Foundations:

- ANTH 4531 - Alcohol/Drugs/Culture
- ANTH 4541 - Nutritional Anth
- PSYC 3102 - Abnormal Psychology
- PSYC 3306 - Physiological Psyc
- PSYC 3506 - Human Sexuality
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 3512 - Health Psychology
- SOCI 4541 - Sociology of Aging
- SOCI 4851 - Medical Sociology
- SOCI 4852 - Sociology of Mental Illness

## International Studies Minor

### Requirements

Completion of 18 semester hours, consisting of

- ANTH 1200 - Cultural Anthropology
- ESCI 1301 - Survey of World Regions
- INTL 1101 - Introduction to International Studies
- UNHP 1101 - Humanities/Global Challenge
- UNHP 1102 - Social Scien/Global Challenge
- POLS 1501 - International Relations

or

- POLS 1301 - Intro to Comparative Politics
- INTL 4601 - Seminar International Studies
  - one upper division course in a modern foreign language
  - three upper division courses that count towards the IS major.

A maximum of six hours from either study abroad or internship credits may be used towards fulfilling the requirements of the IS minor (subject to approval by the IS Director or Associate Director).

## Note

A maximum of six hours from either study abroad or internship credits may be used towards fulfilling the requirements of the IS minor (subject to approval by the IS director).

## Judaic Studies Minor

The minor in Judaic Studies is designed to provide students in any department in the University with a sense of the origins and foundations of Western values and traditions. There is no Hebrew language requirement for the minor.

## Requirements

### Lower Division Core (3 hours):

- JDST 2850 - Religions of Abraham

### Upper Division Core (3 hours):

- JDST 3801 - Jewish Thought I
- JDST 3802 - Jewish Thought II

### Upper Division Electives (6 hours):

### Jewish Heritage (3 hours):

- UNIV 3580 - Hebrew and Greek Legacy
- JDST 4671 - Jewish Literary Texts
- JDST 4511 - Holocaust Studies



### Israel (3 hours):

- JDST 4820 - Political History of Israel
- JDST 4830 - Israeli/Arab Conflict
- JDST 4840 - Israel/Antiquity in Modernity

### General Electives (6 hours)

- ARTH 4121 - Ancient Art Near East
- POLS 3102 - Religion and Politics
- UNIV 3580 - Hebrew and Greek Legacy
- SOCI 3860 - Sociology of Religion
- ENGL 4461 - Bible as Literature

### Note

With the permission of the Director of Bornblum Judaic Studies, students may substitute up to two courses in any category listed above. Such courses will have substantial Judaic Studies content.

## Legal Thought and Liberal Arts Minor

The minor in Legal Thought and Liberal Arts is designed to provide an interdisciplinary liberal arts program for students in any major who intend to enter the legal profession. The minor will be of particular benefit to pre-law students whose majors are more professional in nature and who are not exposed to the broader liberal arts curriculum. Students will be introduced to major intellectual traditions of the West and to ethical, social, and economic issues of significance to our time. The courses in the minor require that students read critically, think logically, and write clearly - attributes required of persons in the legal profession. Students wishing to minor in Legal Thought and Liberal Arts should contact the pre-professional advisor in room 107 Scates Hall.

### Requirements

#### The Minor:

18 semester hours of required courses and electives:

#### Required Core Course:

- PHIL 1611 - Elementary Logic
- ENGL 3604 - Persuasive Writing

or

- ENGL 4602 - Adv Composition

## Electives:

Select one course from four of the following five groups (each course chosen must be from a different group):

### Economic Context of the Law:

- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- ECON 4210 - Public Economics
- ECON 4220 - Urban Economics
- ECON 4250 - Econ Poverty/Discrimination
- ECON 4340 - Comparative Economic Systems

### Historical Context of the Law:

- HIST 3121 - England Before 1714
- HIST 4506 - Cultural Intctcl Hist Europe
- HIST 3840 - U S Constitutional History

### Practical Foundations of Jurisprudence:

- CJUS 3510 - Law and Society
- CJUS 4521 - Foundation/Criminal Process
- POLS 3219 - Judicial Process
- POLS 4212 - Const Law Civil Liberty
- POLS 4405 - Origin/Dev Amer Pol Thought
- POLS 4504 - International Law

### Theoretical Foundations of Jurisprudence:

- PHIL 3411 - Contemporary Moral Problems
- PHIL 3511 - Ethical Theory
- PHIL 3514 - Biomedical Ethics
- PHIL 3516 - Philosophy of Law
- PHIL 4551 - Social and Political Philosophy
- POLS 3401 - Legal/Pol Thght Classical
- POLS 3402 - Legal/Political Thght Modern
- POLS 3405 - Intro Law/Jurisprudence
- UNIV 3580 - Hebrew and Greek Legacy

## Critical Reading and Thinking:

- any 4000-level English literature ENGL 4230-ENGL 4461 course
- or
- ENGL 4602 - Adv Composition (if not taken as the core)
- or
- any upper-division philosophy course not listed above.

## Note

Some of these courses may have prerequisites. Students are responsible for obtaining permission from the instructor to enroll in the course if they have not fulfilled those prerequisites.

## Nonprofit Management Minor

The Division of Public and Nonprofit Administration offers an interdisciplinary minor in Nonprofit Management which includes courses that address competencies necessary for work in nonprofit organizations. The minor is open to students majoring in any department in the University or to special students who wish to enroll in order to take such a program.

Students who complete this minor and specified co-curricular activities will be eligible for certification in Nonprofit Professional (CNP) credential by the Nonprofit Leadership Alliance. The certification program is designed to build competencies in nonprofit administration through coursework, internships, volunteer opportunities, student association leadership activities and professional development workshops.

## Requirements

### The Minor:

18 semester hours, three hours of a required course, and 15 hours from the guided electives.

### Required course (3 hours):

- PADM 4226 - Intro Nonprofit Organizations

### Guided electives (15 hours):

Choose one from each category: (3 hours):

### Accounting and Financial Management:

- ACCT 2010 - Fundamentals of Acct I
- PADM 4227 - Issues/Nonprofit Admin
- PADM 4228 - Grant Development/Management

### Organization and Administration:

- PADM 3601 - Public Admin
- MGMT 3110 - Organization and Mgmt

### Communication Skills:

- COMM 4342 - Small Group Communication
- COMM 4375 - Intercultural Communication
- COMM 4380 - Communication and Conflict
- COUN 4621 - Human Interactions
- MGMT 4420 - Organizational Behavior in Business
- SWRK 3902 - Human Behavior/Soc Envrnmnt

### Nonprofit Context:

- ANTH 4412 - Neighborhood Development
- PADM 4412 - Neighborhood Dev/Social Entrep
- ART 3411 - Art for Children
  - CSED 3302
- PADM 3501 - Civic Engagement, Voluntarism
- PADM 4221 - Issues/Urban Admin
- POLS 3505 - International Organizations
- PSYC 3103 - Child Psychology
  - SOCI 4923
- SWRK 2911 - Soc Response to Human Need

### Nonprofit Organizations:

- PADM 4231 - Admin Internship
  - INTL 4911 - Internship Internatl Studies
- or
- SWRK 4830 - Field Instruction Soc Work I
- and
- SWRK 4831 - Field Instruction Soc Work II
    - or another approved internship course.

## Public Administration Minor

The Division of Public and Nonprofit Administration offers a minor in Public Administration with courses that address competencies necessary for work in local government and public agencies. The minor is open to students majoring in any department in the University.

### Requirements

Students must complete 18 hours in Political Science and Public Administration, including 9 hours of required core course and 9 hours from a set of guided electives.

### Required Courses:

- POLS 1030 - American Government
- PADM 3501 - Civic Engagement, Voluntarism
- PADM 3601 - Public Admin
- PADM 4221 - Issues/Urban Admin

### Guided Electives:

Choose 6 hours from among the following:

- CJUS 4126 - CJUS Admin and Mgmt
- POLS 3211 - State/Local Government
- POLS 3213 - Intro to Public Policy
- PADM 4101 - Political Statistics
- POLS 4222 - Urban Politics
- PADM 4226 - Intro Nonprofit Organizations
- PADM 4231 - Admin Internship
- PADM 4401 - Comparative Public Adm
- PADM 4412 - Neighborhood Dev/Social Entrep
- ANTH 4412 - Neighborhood Development
  
- PADM 4228 - Grant Development/Management

or

- PADM 4710-19

## Religious Studies Minor

The minor in Religious Studies is designed for students with a diversity of backgrounds and interests in religion. Just as religion is interrelated with many other aspects of society and culture, the minor in Religious Studies will complement coursework and research on religion undertaken in a broad range of disciplines and major departments. The required courses, Introduction to Religion, and Perspectives on Religion, provide students with an appreciation of the variety of phenomena that has characterized the religious experiences and actions of humanity, and with knowledge of the basic approaches that have been used to understand such experiences

and actions. Elective courses offered in several departments permit the student to develop his or her interest further, by exploring particular religious traditions and ways of studying religion. The Senior Capstone Project integrates previous learning and can be coordinated with work done in the student's major, if desired, through arrangement of an appropriate faculty sponsor.

## Requirements

### The Minor:

18 semester hours of required courses and electives:

#### Lower Division Core (3 hours)

- RLGN 1100 - Introduction to Religion

#### Upper Division Core (3 hours)

- RLGN 3100 - Perspectives on Religion

#### Senior Capstone Project (3 hours)

- RLGN 4990 - Capstone Project

#### Electives (9 hours)

All courses listed below are 3 hours unless otherwise noted. Other courses, including special topics, individual study, and directed readings courses, may be counted with prior permission of the Program Coordinator.

#### Elective Course Listing:

- AAAS 4251 - African Religions/Diaspora
- ANTH 3253 - Magic & Religion
- ARTH 4031 - Special Topics in Art History
- CLAS 2481 - Mythology
- ENGL 4461 - Bible as Literature
- HIST 3273 - Islamic History to 1405
- HIST 3275 - History of Jewish People
- JDST 2850 - Religions of Abraham

- JDST 3601 - Judaism
- JDST 3661 - Old Testament
- JDST 3801 - Jewish Thought I
- JDST 3802 - Jewish Thought II
- JDST 4511 - Holocaust Studies
- JDST 4801 - Jewish Mysticism
- JDST 4841 - Biblical Archaeology
- PHIL 3701 - Human and the Divine
- PHIL 3702 - Philosophy of Religion
- PHIL 3721 - Chinese Philosophy
- POLS 3102 - Religion and Politics
- RLGN 4010 - Directed Readings
  - RLGN 4050-RLGN 4075
- SOCI 3860 - Sociology of Religion
- UNIV 3581 - Faith/Reason/Imagination
- UNIV 3585 - Critical Themes Old Testament
- UNIV 3590 - New Testament
- UNIV 3565 - Comparative Christianity

## Women's and Gender Studies Minor

This minor exposes students to multidisciplinary approaches to the study of the lives of women, with a special focus upon their racial diversity. Students therefore take courses from both the humanities and social sciences, and study issues of racial diversity as well as gender.

### Requirements

#### The Minor

18 semester hours, 9 hours from the core and 9 hours from the list of approved electives.

#### Core (9 hours)

- HIST 4853 - African American Women
- or
  - SOCI 4460
- or
- PSYC 3236 - Psychology of Gender
- PHIL 3452 - Feminist Theory
- WMST 2100 - Intr/Women/Gender Study

## Electives (9 hours)

Select one course from each of the following groups:

### Women's Issues Across Time and Place:

- ANTH 3511 - Culture/Kin/Family
- ANTH 4551 - Culture/Sex/Childbirth
- CJUS 4460 - Race/Ethnicity/Gender/America
- HIST 4213 - Women/Gender/Latin America
- HIST 4289 - African Women's History
- HIST 4831 - History American Family
- HIST 4851 - History of Women in America
- SOCI 3432 - Sociology of Gender

### Cultural Studies:

- COMM 4364 - Voices/American Women
- COMM 4373 - Interracial Communication
- COMM 4856 - Gender and Film
- ENGL 3325 - Af/Am Lit thru Harlem Ren
- ENGL 3326 - Af/Am Lit since Harlem Ren
- ENGL 4372 - Af/Am Author/Harlem Ren
- ENGL 4373 - Af/Am Author since Harlem Ren
- ENGL 4451 - Studies/Women and Literature
- SLS 4125 - Gender/Race/Class Urb Sp/Lei

### Diversity Among Women:

- HIST 3881 - African American History
- HIST 4289 - African Women's History
- HIST 4853 - African American Women
- HIST 4882 - Civil Rights Movement
- PHIL 3741 - African American Philosophy
- POLS 3320 - Human Rights/World Politics
- POLS 3415 - Feminist Political Theory
- POLS 4415 - African-Am Pol Thght to 1900
- POLS 4416 - African-Am Pol Tht from 1900
- SOCI 3401 - Social Inequality
- SOCI 3420 - Sociology of the South
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 4420 - Racial Inequality
- PSYC 3236 - Psychology of Gender

## Note

With approval from the Director of Women's and Gender Studies, a special topics course may be substituted for an elective in each group.



# Institute for Intelligent Systems

## Department of Mathematical Sciences

Program objectives for a B.S. in Mathematical Sciences are to: (a) understand the notion of a real valued function; (b) understand the concept of differentiation and be able to apply the rules of differentiation to functions of one real variable. Be able to use these techniques to solve problems in optimization; (c) understand the use of vector analysis to describe the geometry of higher dimensional spaces; (d) understand how to extend the concepts of the calculus of functions of one variable to higher dimensions; (e) use matrices to solve systems of linear equations and to describe linear transformations; (f) understand abstract structures in mathematics; (g) be able to read and present mathematical proofs including an understanding of the basic types of proofs; (h) be able to formulate their own proofs of simple mathematical statements; (i) be able to use a computer to assist with the solution of mathematical problems; (j) Have advanced knowledge of at least one specialist area of mathematics: Statistics, Mathematics, or Teaching Mathematics.

### Major

#### Mathematical Sciences - Mathematics Concentration, (B.S.)

Program objectives for a B.S. in Mathematical Sciences are to: (a) understand the notion of a real valued function; (b) understand the concept of differentiation and be able to apply the rules of differentiation to functions of one real variable. Be able to use these techniques to solve problems in optimization; (c) understand the use of vector analysis to describe the geometry of higher dimensional spaces; (d) understand how to extend the concepts of the calculus of functions of one variable to higher dimensions; (e) use matrices to solve systems of linear equations and to describe linear transformations; (f) understand abstract structures in mathematics; (g) be able to read and present mathematical proofs including an understanding of the basic types of proofs; (h) be able to formulate their own proofs of simple mathematical statements; (i) be able to use a computer to assist with the solution of mathematical problems; (j) Have advanced knowledge of at least one specialist area of mathematics: Statistics, Mathematics, or Teaching Mathematics.

#### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Mathematical Sciences major:

#### Mathematics:

- MATH 1910 - Calculus I

#### Natural Science:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## The Major (41-42 hours in addition to University General Education Program)

### Major Core (17 hours):

Completion of

- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra (majors are encouraged to consider the departmental honors program described below)

### Plus the Following Courses:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (these courses are included in the University General Education Program requirements).

### Concentration (21 -22 hours):

### Mathematics (21-22 hours):

- COMP 1900 - CS1: Intro Comp Science

or

- COMP 4001 - Computer Programming
  - 18 semester hours of upper division courses with departmental approval.

## The Following Are Examples of Approved Course Selections.

1. Applied Mathematics
2. General Mathematics
3. Graduate Study in Mathematics
4. Secondary Mathematics Education
5. Actuarial Science

### Note

All approved programs will include no more than 9 semester hours chosen from MATH 4607, MATH 4635, MATH 4636, MATH 4637, MATH 4640. Students are encouraged to work with their advisors to plan their programs.

### Statistics (21 hours):

- COMP 4001 - Computer Programming
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
- MATH 4640 - Intro Probability Models

### One of

- MATH 4607 - Intro SAS Programming
- or
- MATH 4637 - Intro/Stat Models/Analysis

### 6 Additional Upper Division Hours Chosen From:

- MATH 4242 - Linear Algebra
- MATH 4261 - Abstract Algebra
- MATH 4350 - Intro Real Analysis I
- MATH 4351 - Intro Real Analysis II
- MATH 4361 - Complex Variables
- MATH 4391 - Partial Differential Eqns I
- MATH 4607 - Intro SAS Programming
- MATH 4637 - Intro/Stat Models/Analysis
- MATH 4643 - Intro Regression/Time Ser Anyl
- MATH 4721 - Numerical Analysis

### Additional Course (3 hours):

Each major must take one additional upper division MATH course.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Department of Mathematical Sciences offers an honors program in Mathematics and Statistics for the talented student. To be admitted into the program, an entering freshman must score at least 29 on the Math ACT, and have a high-school GPA of 3.50, although exceptions may be made by the freshman's advisor, based upon an interview at the time of initial registration.

Currently enrolled students may be admitted into the Honors Program upon an interview with the Departmental Honors Director. The basic requirements will be a 3.5 GPA on all MATH courses, an overall GPA of 3.25, and timely progress toward a degree. Such students may be admitted into MATH 1421, MATH 2421, or MATH 2422. Upon completion of the entry course with a grade of at least B, such students will retroactively receive credit for any previous course(s) in the Honors Sequence. A student **may not** enroll in MATH 3402 without having previously completed MATH 2422.

The successful candidate will complete the Major Core as listed about under item C, and complete one of the Areas of Concentration listed above, with the following exceptions and additions:

- In place of MATH 1910, MATH 1920, MATH 2110 and MATH 3242, the Honors student must complete the four-course sequence of Honors Mathematics courses (MATH 1421, MATH 2421, MATH 2422 and MATH 3402), and two semesters of the Mathematics Honors Seminar, MATH 3410 and MATH 3411.
- Upon successful completion of the courses listed above, the student shall be considered to have completed MATH 3242, **and** MATH 2120 for prerequisite and graduation purposes.
- The Honors student must take MATH 4402 - Senior Honors Seminar.
- Each of MATH 1421, MATH 2421, MATH 2422, MATH 3402, MATH 3410, MATH 3411, MATH 4402 must be completed with at least a grade of B.
- A GPA of 3.50 in all MATH courses must be maintained.

Upon completion of the program, the successful candidates will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Mathematical Sciences," and their diplomas and records at the University of Memphis will reflect this distinction.

## Mathematical Sciences - Second Major for Chemistry, Computer Science, Engineering, and Physics, (B.S.)

### Mathematical Sciences Major (B.S.)

Program objectives for a B.S. in Mathematical Sciences are to: (a) understand the notion of a real valued function; (b) understand the concept of differentiation and be able to apply the rules of differentiation to functions of one real variable. Be able to use these techniques to solve problems in optimization; (c) understand the use of vector analysis to describe the geometry of higher dimensional spaces; (d) understand how to extend the concepts of the calculus of functions of one variable to higher dimensions; (e) use matrices to solve systems of linear equations and to describe linear transformations; (f) understand abstract structures in mathematics; (g) be able to read and present mathematical proofs including an understanding of the basic types of proofs; (h) be able to formulate their own proofs of simple mathematical statements; (i) be able to use a computer to assist with the solution of mathematical problems; (j) Have advanced knowledge of at least one specialist area of mathematics: Statistics, Mathematics, or Teaching Mathematics.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Mathematical Sciences major:

### Mathematics:

- MATH 1910 - Calculus I

### Natural Science:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
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or

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## The Major (41-42 hours in addition to University General Education Program)

### Major Core (17 hours):

Completion of

- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra (majors are encouraged to consider the departmental honors program described below)

### Plus the Following Courses:

- CHEM 1110 - General Chemistry I
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or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (these courses are included in the University General Education Program requirements).

## Concentration (21 -22 hours):

### Mathematics (21-22 hours):

- COMP 1900 - CS1:Intro Comp Science
- or
- COMP 4001 - Computer Programming
  - 18 semester hours of upper division courses with departmental approval.

### The Following Are Examples of Approved Course Selections.

1. Applied Mathematics
2. General Mathematics
3. Graduate Study in Mathematics
4. Secondary Mathematics Education
5. Actuarial Science

### Note

All approved programs will include no more than 9 semester hours chosen from MATH 4607, MATH 4635, MATH 4636, MATH 4637, MATH 4640. Students are encouraged to work with their advisors to plan their programs.

### Statistics (21 hours):

- COMP 4001 - Computer Programming
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
- MATH 4640 - Intro Probability Models

### One of

- MATH 4607 - Intro SAS Programming
- or
- MATH 4637 - Intro/Stat Models/Analysis

## 6 Additional Upper Division Hours Chosen From:

- MATH 4242 - Linear Algebra
- MATH 4261 - Abstract Algebra
- MATH 4350 - Intro Real Analysis I
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- MATH 4361 - Complex Variables
- MATH 4391 - Partial Differential Eqns I
- MATH 4607 - Intro SAS Programming
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- MATH 4643 - Intro Regression/Time Ser Anyl
- MATH 4721 - Numerical Analysis

## Additional Course (3 hours):

Each major must take one additional upper division MATH course.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Department of Mathematical Sciences offers an honors program in Mathematics and Statistics for the talented student. To be admitted into the program, an entering freshman must score at least 29 on the Math ACT, and have a high-school GPA of 3.50, although exceptions may be made by the freshman's advisor, based upon an interview at the time of initial registration.

Currently enrolled students may be admitted into the Honors Program upon an interview with the Departmental Honors Director. The basic requirements will be a 3.5 GPA on all MATH courses, an overall GPA of 3.25, and timely progress toward a degree. Such students may be admitted into MATH 1421, MATH 2421, or MATH 2422. Upon completion of the entry course with a grade of at least B, such students will retroactively receive credit for any previous course(s) in the Honors Sequence. A student **may not** enroll in MATH 3402 without having previously completed MATH 2422.

The successful candidate will complete the Major Core as listed about under item C, and complete one of the Areas of Concentration listed above, with the following exceptions and additions:

- In place of MATH 1910, MATH 1920, MATH 2110 and MATH 3242, the Honors student must complete the four-course sequence of Honors Mathematics courses (MATH 1421, MATH 2421, MATH 2422 and MATH 3402), and two semesters of the Mathematics Honors Seminar, MATH 3410 and MATH 3411.
- Upon successful completion of the courses listed above, the student shall be considered to have completed MATH 3242, **and** MATH 2120 for prerequisite and graduation purposes.
- The Honors student must take MATH 4402 - Senior Honors Seminar.
- Each of MATH 1421, MATH 2421, MATH 2422, MATH 3402, MATH 3410, MATH 3411, MATH 4402 must be completed with at least a grade of B.
- A GPA of 3.50 in all MATH courses must be maintained.

Upon completion of the program, the successful candidates will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Mathematical Sciences," and their diplomas and records at the University of Memphis will reflect this distinction.

## Second Major in Mathematical Sciences for Majors in Chemistry, Computer Science, Engineering, and Physics (29-30 hours):

### Section A

- MATH 1910 - Calculus I
- MATH 1920 - Calculus II
- MATH 3242 - Intro Linear Algebra

### Section B

One of

- COMP 2700 - Discrete Structures
- MATH 2110 - Calculus III
- MATH 2702 - Intro Proof/Fundamental Math

### Section C

9 hours from upper division MATH courses approved by the Chair or Chair's designee of the Department of Mathematical Sciences with at least one course chosen from

- MATH 4022 - Fin Math I/Theory of Interest
- MATH 4083 - Dynamical Systems/Chaos
- MATH 4084 - Introduction to Graph Theory \*
- MATH 4085 - Introduction to Combinatorics \*
- MATH 4086 - Analytic Number Theory
- MATH 4242 - Linear Algebra
- MATH 4261 - Abstract Algebra \*\*
- MATH 4350 - Intro Real Analysis I \*\*
- MATH 4361 - Complex Variables
- MATH 4391 - Partial Differential Eqns I
- MATH 4411 - Topology \*\*
- MATH 4635 - Intro Probability Theory \*\*\*
- MATH 4721 - Numerical Analysis

### Note

\* Additional prerequisite: Either MATH 2702 or COMP 2700.

\*\* Additional prerequisite: MATH 2702.

\*\*\* Additional prerequisite: MATH 2120.



## Section D

6 additional hours of courses which may be chosen from either MATH and/or the student's major, approved by the Chair or Chair's designee of the Department of Mathematical Sciences.

## Typical 4-Year Mathematics Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
  - Social/Behavioral Sciences\* (3)
  - Elective (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
  - Natural Science\*\* (4)
  - Elective (3)

Semester Totals 30 hrs

### Sophomore Year

- History\* (3)
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
  - Natural Science\*\* (4)
  - Social/Behavioral Sciences\* (3)
- History\* (3)
- MATH 2702 - Intro Proof/Fundamental Math
- COMM 2381 - Oral Communication
  - Humanities/Fine Arts\* (3)
- MATH 2120 - Differential Equations

Semester Totals 32 hrs

## Junior Year

- MATH 3242 - Intro Linear Algebra
  - UD MATH (3)
  - UD Elective (3)
  - UD elective (3)
- COMP 4001 - Computer Programming
  - Humanities/Fine Arts\* (3)
  - UD elective (3)
  - Elective (3)
  - UD MATH (3)
  - UD MATH (3)

Semester Totals 30 hrs

## Senior Year

- UD MATH (3)
- UD MATH (3)
- UD MATH (3)
- UD MATH (3)
- Elective (3)
  
- Elective (3)
- Elective (3)
- UD elective (3)
- UD elective (3)
- Elective (1)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one Natural Science sequence: CHEM 1110/CHEM 1111 and CHEM 1120/CHEM 1121 , OR PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.

## Typical 4-Year Statistics Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
  - Social/Behavioral Sciences\* (3)
  - Elective (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
  - Natural Science\*\* (4)
  - Elective (3)

Semester Totals 30 hrs

### Sophomore Year

- History\* (3)
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
  - Natural Science\*\* (4)
  - Social/Behavioral Sciences\* (3)
  - History\* (3)
- MATH 2702 - Intro Proof/Fundamental Math
- COMM 2381 - Oral Communication
  - Humanities/Fine Arts\* (3)
- MATH 2120 - Differential Equations

Semester Totals 32 hrs

### Junior Year

- MATH 3242 - Intro Linear Algebra
  - UD MATH (3)
- COMP 4001 - Computer Programming
  - UD Elective (3)
  - Elective (3)
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
  - Humanities/Fine Arts\* (3)
  - UD elective (3)

- UD elective (3)

Semester Totals 30 hrs

## Senior Year

- MATH 4640 - Intro Probability Models
  - UD MATH\*\*\* (3)
  - Elective (3)
  - Elective (3)
  - UD elective (3)
- MATH 4607 - Intro SAS Programming
- or
- MATH 4637 - Intro/Stat Models/Analysis
  - UD MATH\*\*\* (3)
  - Elective (3)
  - UD elective (3)
  - Elective (1)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one Natural Science sequence: CHEM 1110/CHEM 1111 and CHEM 1120/CHEM 1121, OR PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.

\*\*\*Choose from MATH 4120/6120, MATH 4242, MATH 4261, MATH 4350, MATH 4351, MATH 4361, MATH 4391, MATH 4551, MATH 4607, MATH 4637, MATH 4643, MATH 4721

## **Mathematical Sciences - Statistics Concentration, (B.S.)**

### **Mathematical Sciences Major (B.S.)**

Program objectives for a B.S. in Mathematical Sciences are to: (a) understand the notion of a real valued function; (b) understand the concept of differentiation and be able to apply the rules of differentiation to functions of one real variable. Be able to use these

techniques to solve problems in optimization; (c) understand the use of vector analysis to describe the geometry of higher dimensional spaces; (d) understand how to extend the concepts of the calculus of functions of one variable to higher dimensions; (e) use matrices to solve systems of linear equations and to describe linear transformations; (f) understand abstract structures in mathematics; (g) be able to read and present mathematical proofs including an understanding of the basic types of proofs; (h) be able to formulate their own proofs of simple mathematical statements; (i) be able to use a computer to assist with the solution of mathematical problems; (j) Have advanced knowledge of at least one specialist area of mathematics: Statistics, Mathematics, or Teaching Mathematics.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Mathematical Sciences major:

### Mathematics:

- MATH 1910 - Calculus I

### Natural Science:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## The Major (41-42 hours in addition to University General Education Program)

### Major Core (17 hours):

Completion of

- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra

## Plus the Following Courses:

(Your choice will satisfy the University General Education Program requirements for science).

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## Statistics (21 hours):

- COMP 4001 - Computer Programming
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
- MATH 4640 - Intro Probability Models

## One of

- MATH 4607 - Intro SAS Programming

or

- MATH 4637 - Intro/Stat Models/Analysis

## 6 Additional Upper Division Hours Chosen From:

- MATH 4242 - Linear Algebra
- MATH 4261 - Abstract Algebra
- MATH 4350 - Intro Real Analysis I
- MATH 4351 - Intro Real Analysis II
- MATH 4361 - Complex Variables
- MATH 4391 - Partial Differential Eqns I
- MATH 4607 - Intro SAS Programming
- MATH 4637 - Intro/Stat Models/Analysis
- MATH 4643 - Intro Regression/Time Ser Anyl
- MATH 4721 - Numerical Analysis

## Additional Course (3 hours):

Each major must take one additional upper division MATH course.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Department of Mathematical Sciences offers an honors program in Mathematics and Statistics for the talented student. To be admitted into the program, an entering freshman must score at least 29 on the Math ACT, and have a high-school GPA of 3.50, although exceptions may be made by the freshman's advisor, based upon an interview at the time of initial registration.

Currently enrolled students may be admitted into the Honors Program upon an interview with the Departmental Honors Director. The basic requirements will be a 3.5 GPA on all MATH courses, an overall GPA of 3.25, and timely progress toward a degree. Such students may be admitted into MATH 1421, MATH 2421, or MATH 2422. Upon completion of the entry course with a grade of at least B, such students will retroactively receive credit for any previous course(s) in the Honors Sequence. A student **may not** enroll in MATH 3402 without having previously completed MATH 2422.

The successful candidate will complete the Major Core as listed about under item C, and complete one of the Areas of Concentration listed above, with the following exceptions and additions:

- In place of MATH 1910, MATH 1920, MATH 2110 and MATH 3242, the Honors student must complete the four-course sequence of Honors Mathematics courses (MATH 1421, MATH 2421, MATH 2422 and MATH 3402), and two semesters of the Mathematics Honors Seminar, MATH 3410 and MATH 3411.
- Upon successful completion of the courses listed above, the student shall be considered to have completed MATH 3242, **and** MATH 2120 for prerequisite and graduation purposes.
- The Honors student must take MATH 4402 - Senior Honors Seminar.
- Each of MATH 1421, MATH 2421, MATH 2422, MATH 3402, MATH 3410, MATH 3411, MATH 4402 must be completed with at least a grade of B.
- A GPA of 3.50 in all MATH courses must be maintained.

Upon completion of the program, the successful candidates will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Mathematical Sciences," and their diplomas and records at the University of Memphis will reflect this distinction.

## Typical 4-Year Statistics Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
  - Social/Behavioral Sciences\* (3)
  - Elective (3)
  - Elective (3)

- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
  - Natural Science\*\* (4)
  - Elective (3)

Semester Totals 30 hrs

## Sophomore Year

- History\* (3)
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
  - Natural Science\*\* (4)
  - Social/Behavioral Sciences\* (3)
  - History\* (3)
- MATH 2702 - Intro Proof/Fundamental Math
- COMM 2381 - Oral Communication
  - Humanities/Fine Arts\* (3)
- MATH 2120 - Differential Equations

Semester Totals 32 hrs

## Junior Year

- MATH 3242 - Intro Linear Algebra
  - UD MATH (3)
- COMP 4001 - Computer Programming
  - UD Elective (3)
  - Elective (3)
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
  - Humanities/Fine Arts\* (3)
  - UD elective (3)
  - UD elective (3)

Semester Totals 30 hrs

## Senior Year

- MATH 4640 - Intro Probability Models
  - UD MATH\*\*\* (3)



- Elective (3)
- Elective (3)
- UD elective (3)
- MATH 4607 - Intro SAS Programming
- or
- MATH 4637 - Intro/Stat Models/Analysis
  - UD MATH\*\*\* (3)
  - Elective (3)
  - UD elective (3)
  - Elective (1)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one Natural Science sequence: CHEM 1110/CHEM 1111 and CHEM 1120/CHEM 1121, OR PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.

\*\*\*Choose from MATH 4120/6120, MATH 4242, MATH 4261, MATH 4350, MATH 4351, MATH 4361, MATH 4391, MATH 4551, MATH 4607, MATH 4637, MATH 4643, MATH 4721

## Minor

### Mathematical Sciences Minor

#### Requirements

A minimum of 20 semester hours, including

- MATH 1910 - Calculus I
- MATH 1920 - Calculus II

#### 9 Additional Upper Division Semester Hours

9 additional upper division semester hours in MATH courses approved by the Chair or Chair's designee of the Department of Mathematical Sciences

## Plus One of

- COMP 2700 - Discrete Structures
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 2110 - Calculus III
  - or an additional upper division MATH course approved by the Chair or Chair's designee of the Department of Mathematics.

## Accelerated Bachelor/Masters

### Mathematical Sciences - Mathematics Concentration, (Accelerated B.S./M.S.)

#### Mathematical Sciences Major (B.S.)

Program objectives for a B.S. in Mathematical Sciences are to: (a) understand the notion of a real valued function; (b) understand the concept of differentiation and be able to apply the rules of differentiation to functions of one real variable. Be able to use these techniques to solve problems in optimization; (c) understand the use of vector analysis to describe the geometry of higher dimensional spaces; (d) understand how to extend the concepts of the calculus of functions of one variable to higher dimensions; (e) use matrices to solve systems of linear equations and to describe linear transformations; (f) understand abstract structures in mathematics; (g) be able to read and present mathematical proofs including an understanding of the basic types of proofs; (h) be able to formulate their own proofs of simple mathematical statements; (i) be able to use a computer to assist with the solution of mathematical problems; (j) Have advanced knowledge of at least one specialist area of mathematics: Statistics, Mathematics, or Teaching Mathematics.

#### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Mathematical Sciences major:

#### Mathematics:

- MATH 1910 - Calculus I

#### Natural Science:

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## The Major (41-42 hours in addition to University General Education Program)

### Major Core (17 hours):

Completion of

- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra

### Plus the Following Courses:

(Your choice will satisfy the University General Education Program requirements for science).

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### Mathematics (21-22 hours):

- COMP 1900 - CS1: Intro Comp Science

or

- COMP 4001 - Computer Programming
  - 18 semester hours of upper division courses with departmental approval.

## Note:

All approved programs will include no more than 9 semester hours chosen from MATH 4607, MATH 4635, MATH 4636, MATH 4637, MATH 4640. Students are encouraged to work with their advisors to plan their programs.

## Additional Course (3 hours):

Each major must take one additional upper division MATH course.

## Accelerated BS/MS Degree Program, with concentrations in Applied Mathematics, Mathematics, and Statistics

This program allows outstanding undergraduates to complete both a Bachelor of Science degree in Mathematical Sciences and a Master of Science degree in Mathematical Sciences with concentration in Applied Mathematics, Mathematics or Statistics. Students admitted into the program will follow a carefully designed program of study which allows them to begin course work for the Master of Science program during their senior year. Interested students are encouraged to consult with their undergraduate advisor in the Department of Mathematical Sciences and to begin planning to enter the accelerated BS/MS degree program early in their undergraduate career. Through careful coordination with their undergraduate and graduate advisors students will be able to graduate with both a bachelor's and master's degree within a five year period.

To apply, students must have finished 18 credit hours of course work in mathematics by the end of the semester of their application. Applicants must have a cumulative GPA of 3.00 (on a 4.0 scale) as well as a GPA of 3.30 (on a 4.0 scale) in their mathematics courses. The initial application for the accelerated BS/MS degree program consists of the following two parts:

1. A letter of intent including two letters of reference and a copy of the applicant's transcript to be submitted to the Department of Mathematical Sciences
2. Application with the Graduate School for "combination senior" status

To continue in the program beyond the bachelor's degree, students must also apply for full admission into the Graduate School and be accepted into the master's program by the Department of Mathematical Sciences.

Up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. Details on courses that can be applied will be available in the Department of Mathematical Sciences. However, any graduate course work will not be used to calculate the undergraduate GPA.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Department of Mathematical Sciences offers an honors program in Mathematics and Statistics for the talented student. To be admitted into the program, an entering freshman must score at least 29 on the Math ACT, and have a high-school GPA of 3.50, although exceptions may be made by the freshman's advisor, based upon an interview at the time of initial registration.

Currently enrolled students may be admitted into the Honors Program upon an interview with the Departmental Honors Director. The basic requirements will be a 3.5 GPA on all MATH courses, an overall GPA of 3.25, and timely progress toward a degree. Such students may be admitted into MATH 1421, MATH 2421, or MATH 2422. Upon completion of the entry course with a grade of at least B, such students will retroactively receive credit for any previous course(s) in the Honors Sequence. A student **may not** enroll in MATH 3402 without having previously completed MATH 2422.

The successful candidate will complete the Major Core as listed about under item C, and complete one of the Areas of Concentration listed above, with the following exceptions and additions:

- In place of MATH 1910, MATH 1920, MATH 2110 and MATH 3242, the Honors student must complete the four-course sequence of Honors Mathematics courses (MATH 1421, MATH 2421, MATH 2422 and MATH 3402), and two semesters of the Mathematics Honors Seminar, MATH 3410 and MATH 3411.
- Upon successful completion of the courses listed above, the student shall be considered to have completed MATH 3242, **and** MATH 2120 for prerequisite and graduation purposes.
- The Honors student must take MATH 4402 - Senior Honors Seminar.
- Each of MATH 1421, MATH 2421, MATH 2422, MATH 3402, MATH 3410, MATH 3411, MATH 4402 must be completed with at least a grade of B.
- A GPA of 3.50 in all MATH courses must be maintained.

Upon completion of the program, the successful candidates will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Mathematical Sciences," and their diplomas and records at the University of Memphis will reflect this distinction.

## Typical 4-Year Mathematics Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
  - Social/Behavioral Sciences\* (3)
  - Elective (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
  - Natural Science\*\* (4)
  - Elective (3)

### Semester Totals 30 hrs

### Sophomore Year

- History\* (3)
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III

- Natural Science\*\* (4)
- Social/Behavioral Sciences\* (3)
- History\* (3)
- MATH 2702 - Intro Proof/Fundamental Math
- COMM 2381 - Oral Communication
  - Humanities/Fine Arts\* (3)
- MATH 2120 - Differential Equations

Semester Totals 32 hrs

## Junior Year

- MATH 3242 - Intro Linear Algebra
  - UD MATH (3)
  - UD Elective (3)
  - UD elective (3)
- COMP 4001 - Computer Programming
  - Humanities/Fine Arts\* (3)
  - UD elective (3)
  - Elective (3)
  - UD MATH (3)
  - UD MATH (3)

Semester Totals 30 hrs

## Senior Year

- UD MATH (3)
- UD MATH (3)
- UD MATH (3)
- UD MATH (3)
- Elective (3)
- Elective (3)
- Elective (3)
- UD elective (3)
- UD elective (3)
- Elective (1)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one Natural Science sequence: CHEM 1110/CHEM 1111 and CHEM 1120/CHEM 1121 , OR PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.

## **Mathematical Sciences - Statistics Concentration, (Accelerated B.S./M.S.)**

### **Mathematical Sciences Major (B.S.)**

Program objectives for a B.S. in Mathematical Sciences are to: (a) understand the notion of a real valued function; (b) understand the concept of differentiation and be able to apply the rules of differentiation to functions of one real variable. Be able to use these techniques to solve problems in optimization; (c) understand the use of vector analysis to describe the geometry of higher dimensional spaces; (d) understand how to extend the concepts of the calculus of functions of one variable to higher dimensions; (e) use matrices to solve systems of linear equations and to describe linear transformations; (f) understand abstract structures in mathematics; (g) be able to read and present mathematical proofs including an understanding of the basic types of proofs; (h) be able to formulate their own proofs of simple mathematical statements; (i) be able to use a computer to assist with the solution of mathematical problems; (j) Have advanced knowledge of at least one specialist area of mathematics: Statistics, Mathematics, or Teaching Mathematics.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Mathematical Sciences major:

#### **Mathematics:**

- MATH 1910 - Calculus I

#### **Natural Science:**

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## The Major (41-42 hours in addition to University General Education Program)

### Major Core (17 hours):

Completion of

- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra

### Plus the Following Courses:

(Your choice will satisfy the University General Education Program requirements for science).

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### Statistics (21 hours):

- COMP 4001 - Computer Programming
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
- MATH 4640 - Intro Probability Models



## One of

- MATH 4607 - Intro SAS Programming
- or
- MATH 4637 - Intro/Stat Models/Analysis

## 6 Additional Upper Division Hours Chosen From:

- MATH 4242 - Linear Algebra
- MATH 4261 - Abstract Algebra
- MATH 4350 - Intro Real Analysis I
- MATH 4351 - Intro Real Analysis II
- MATH 4361 - Complex Variables
- MATH 4391 - Partial Differential Eqns I
- MATH 4607 - Intro SAS Programming
- MATH 4637 - Intro/Stat Models/Analysis
- MATH 4643 - Intro Regression/Time Ser Anyl
- MATH 4721 - Numerical Analysis

## Note:

All approved programs will include no more than 9 semester hours chosen from MATH 4607, MATH 4635, MATH 4636, MATH 4637, MATH 4640. Students are encouraged to work with their advisors to plan their programs.

## Additional Course (3 hours):

Each major must take one additional upper division MATH course.

## Accelerated BS/MS Degree Program, with concentrations in Applied Mathematics, Mathematics, and Statistics

This program allows outstanding undergraduates to complete both a Bachelor of Science degree in Mathematical Sciences and a Master of Science degree in Mathematical Sciences with concentration in Applied Mathematics, Mathematics or Statistics. Students admitted into the program will follow a carefully designed program of study which allows them to begin course work for the Master of Science program during their senior year. Interested students are encouraged to consult with their undergraduate advisor in the Department of Mathematical Sciences and to begin planning to enter the accelerated BS/MS degree program early in their undergraduate career. Through careful coordination with their undergraduate and graduate advisors students will be able to graduate with both a bachelor's and master's degree within a five year period.

To apply, students must have finished 18 credit hours of course work in mathematics by the end of the semester of their application. Applicants must have a cumulative GPA of 3.00 (on a 4.0 scale) as well as a GPA of 3.30 (on a 4.0 scale) in their mathematics courses. The initial application for the accelerated BS/MS degree program consists of the following two parts:

1. A letter of intent including two letters of reference and a copy of the applicant's transcript to be submitted to the Department of Mathematical Sciences
2. Application with the Graduate School for "combination senior" status

To continue in the program beyond the bachelor's degree, students must also apply for full admission into the Graduate School and be accepted into the master's program by the Department of Mathematical Sciences.

Up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. Details on courses that can be applied will be available in the Department of Mathematical Sciences. However, any graduate course work will not be used to calculate the undergraduate GPA.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Department of Mathematical Sciences offers an honors program in Mathematics and Statistics for the talented student. To be admitted into the program, an entering freshman must score at least 29 on the Math ACT, and have a high-school GPA of 3.50, although exceptions may be made by the freshman's advisor, based upon an interview at the time of initial registration.

Currently enrolled students may be admitted into the Honors Program upon an interview with the Departmental Honors Director. The basic requirements will be a 3.5 GPA on all MATH courses, an overall GPA of 3.25, and timely progress toward a degree. Such students may be admitted into MATH 1421, MATH 2421, or MATH 2422. Upon completion of the entry course with a grade of at least B, such students will retroactively receive credit for any previous course(s) in the Honors Sequence. A student **may not** enroll in MATH 3402 without having previously completed MATH 2422.

The successful candidate will complete the Major Core as listed about under item C, and complete one of the Areas of Concentration listed above, with the following exceptions and additions:

- In place of MATH 1910, MATH 1920, MATH 2110 and MATH 3242, the Honors student must complete the four-course sequence of Honors Mathematics courses (MATH 1421, MATH 2421, MATH 2422 and MATH 3402), and two semesters of the Mathematics Honors Seminar, MATH 3410 and MATH 3411.
- Upon successful completion of the courses listed above, the student shall be considered to have completed MATH 3242, **and** MATH 2120 for prerequisite and graduation purposes.
- The Honors student must take MATH 4402 - Senior Honors Seminar.
- Each of MATH 1421, MATH 2421, MATH 2422, MATH 3402, MATH 3410, MATH 3411, MATH 4402 must be completed with at least a grade of B.
- A GPA of 3.50 in all MATH courses must be maintained.

Upon completion of the program, the successful candidates will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Mathematical Sciences," and their diplomas and records at the University of Memphis will reflect this distinction.

## Typical 4-Year Statistics Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition

- MATH 1910 - Calculus I
  - Social/Behavioral Sciences\* (3)
  - Elective (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
  - Natural Science\*\* (4)
  - Elective (3)

Semester Totals 30 hrs

## Sophomore Year

- History\* (3)
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
  - Natural Science\*\* (4)
  - Social/Behavioral Sciences\* (3)
  - History\* (3)
- MATH 2702 - Intro Proof/Fundamental Math
- COMM 2381 - Oral Communication
  - Humanities/Fine Arts\* (3)
- MATH 2120 - Differential Equations

Semester Totals 32 hrs

## Junior Year

- MATH 3242 - Intro Linear Algebra
  - UD MATH (3)
- COMP 4001 - Computer Programming
  - UD Elective (3)
  - Elective (3)
- MATH 4635 - Intro Probability Theory
- MATH 4636 - Intro Statistical Theory
  - Humanities/Fine Arts\* (3)
  - UD elective (3)
  - UD elective (3)

Semester Totals 30 hrs

## Senior Year

- MATH 4640 - Intro Probability Models
    - UD MATH\*\*\* (3)
    - Elective (3)
    - Elective (3)
    - UD elective (3)
  - MATH 4607 - Intro SAS Programming
- or
- MATH 4637 - Intro/Stat Models/Analysis
    - UD MATH\*\*\* (3)
    - Elective (3)
    - UD elective (3)
    - Elective (1)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one Natural Science sequence: CHEM 1110/CHEM 1111 and CHEM 1120/CHEM 1121, OR PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121.

\*\*\*Choose from MATH 4120/6120, MATH 4242, MATH 4261, MATH 4350, MATH 4351, MATH 4361, MATH 4391, MATH 4551, MATH 4607, MATH 4637, MATH 4643, MATH 4721

## Department of Military Science

The Department of Military Science provides a four-year program of instruction designed to provide qualified college men and women with practical experience in the art of organizing, motivating and leading others. The program is divided into two courses each of two years duration. The first, called the Basic Course, offers instruction in leadership skills, soldiering skills, and the role and use of armed forces. The second, called the Advanced Course, builds on the Basic Course, offers practical leadership experience, and prepares the student for commissioning as an Army officer. Students may apply for the four year program, which can be completed in three years with department permission, or for the two-year program.

Department faculty and staff are active duty Army personnel detailed by Department of the Army and approved by the University president. The Army officers are appointed by the University as Professor or Assistant Professor of Military Science. Students interested in enrolling in any Military Science course should contact the Department of Military Science.

## The Basic Course

The Basic Course, two years in duration, consists of two semesters of one hour per week of classroom instruction and two semesters of two hours per week of classroom instruction. Courses are designed to be taken in the following order: ARMY 1100, ARMY 1110, ARMY 1115, ARMY 1120, ARMY 2100, ARMY 2115, ARMY 2120, ARMY 3105. All textbooks are furnished, without charge, by the department.

All offered courses count as elective credit toward the total university required hours for a degree. ARMY 2115/ARMY 2120 meets the physical activity portion of the University General Education Program Fitness and Wellness requirement.

The Basic Course is designed for incoming freshmen. All other students are eligible to enter and may compress the Basic Course requirements into one year, with department permission. There is NO MILITARY OBLIGATION for enrolling in the Basic Course. Unless specified in the course description, students in the Basic Course are not required to wear uniforms or attend leadership laboratory.

Students who successfully complete the Basic Course may apply for entry into the Advanced Course.

## The Advanced Course

The Advanced Course prepares qualified, selected male and female students for commissioning as Army officers while they continue to pursue academic degrees. Upon graduation, students may then serve in the Regular Army, Army Reserve, or Army National Guard in a variety of career fields.

To be eligible for the Advanced Course, the student must have completed the Basic Course or equivalent, (see 2-year program), be enrolled in the university full time, have at least two years remaining at the university (undergraduate or graduate), and be a U.S. citizen. Final selection is based on demonstrated academic performance, leadership potential, a qualifying score on the Officer Selection Battery of Tests, and physical qualifications.

The Advanced Course is two years in duration. During each of four semesters, the student attends three hours per week of classroom instruction and two hours per week of leadership laboratory. It is composed of ARMY 3100, ARMY 3111, ARMY 3115, ARMY 3121, ARMY 4100, ARMY 4110, ARMY 4111, ARMY 4115 and ARMY 4121 in sequence. All students receive a monthly subsistence allowance of \$200.00, tax free, while enrolled in classes. All textbooks, uniforms, and equipment are furnished, without charge, by the department.

Students are given the opportunity to develop their leadership skills through the leadership laboratory, field training, and the Advanced Camp. The leadership laboratory is designed around a cadet structure that parallels a U.S. Army unit. Field training exercises are conducted over a weekend and are an extension of the laboratory. Students are also required to attend a six-week Advanced Camp during the summer between their two years in the Advanced Course. Advanced Camp is held at a U.S. Army post. Students are paid for the six weeks at the rate of one-half the pay of a Second Lieutenant and are furnished quarters and rations as well as transportation to and from the post.

All required courses count as elective credit toward the total university required hours for a degree. Completion of the Advanced Course meets the Fitness and Wellness University General Education Program requirement.

## The Senior Army Advanced Course

The Senior Army Advanced Course prepares qualified, male and female students for commissioning as Army officers while they continue to pursue academic degrees. Upon graduation, students may then serve in the Regular Army, Army Reserve, or Army National Guard in a variety of career fields. To be eligible for the Senior Army Advanced Course, the student must have completed the four year ROTC academic program, be enrolled in the university, and be a U.S. citizen. Enrollment in the Senior Army Advanced Course is on a case by case requirement. All textbooks, uniforms, and equipment are furnished, without charge, by the department or university. Students are given the opportunity to further develop their leadership skills through the leadership laboratory, and mandatory physical training. The leadership laboratory is designed around a cadet's structure and all Field Training Exercises are conducted over a weekend and are an extension of the laboratory. The Senior Army Advanced Course does not count as credit toward the total university required hours for a degree.

## The Two-Year Program

The Two-Year Program provides the opportunity to those students who did not enroll in the Four-Year Program to enroll in the Advanced Course. There are three methods for students to receive placement credit for the Basic Course and enter directly into the Advanced Course.

Students who meet qualifying criteria may receive credit for the Basic Course by attending the six-week Basic Camp at Fort Knox, Kentucky, during the summer. NO MILITARY OBLIGATION is incurred by the student by attending the Basic Camp. Students are paid for the six weeks at the rate of one-half the pay of a Second Lieutenant and are furnished quarters and rations as well as transportation to and from, or a mileage allowance for use of their own automobile. Successful completion of the Basic Camp will make the student eligible to enter the Advanced Course. Interested students should contact the Department of Military Science anytime during the academic year preceding the summer they desire to attend the camp.

Students who have completed Army Basic Combat Training and Advanced Individual Training or who have completed a minimum of three years of Army Junior ROTC in high school may be granted credit for the Basic Course by the Professor of Military Science and would then be eligible for entry into the Advanced Course, provided all other requirements are met. These students, as well as Basic Camp graduates, selected for enrollment in the Advanced Course are enrolled with the same status as cadets in the Four-Year Program.

## Scholarship Program

**Scholarships paying tuition, maintenance fee and other fees, a book allowance, and a tax-free subsistence allowance of \$200.00** per month are available to university freshmen and sophomores who are competitive academically and who will enroll in the Army ROTC program. Applications are taken from December to February each academic year. Details concerning qualifications can be obtained from the Department of Military Science.

## Simultaneous Membership Program

The Simultaneous Membership Program is a voluntary program under which qualified cadets in the Advanced Course may concurrently join an Army National Guard unit. The program is designed to provide cadets with additional opportunities for leadership development and, at the same time, provide them with practical unit experience as Second Lieutenant. Cadets serve in an officer-trainee capacity and participate in regular unit drills held one weekend per month and two weeks per summer. Cadets are paid for all drills at the rate of a sergeant. This pay is in addition to the regular monthly subsistence for Army ROTC cadets. Details concerning qualifications and information on availability of allocations can be obtained from the Department of Military Science.

## Professional Military Education

Professional Military Education is a component of the academic preparation for students desiring to pursue a commission as an Army officer. It consists of two essential parts, a baccalaureate degree and completion of university-taught, undergraduate courses from each of five designated fields of study. The fields of study are written communications, human behavior, military history, computer literacy, and math reasoning. Military Science students enrolled in the Advanced Course are also encouraged to take management and national security studies. Students may substitute approved alternative courses for any of these requirements. This is a requirement for students enrolled in the Advanced Course only, though applicable courses taken during enrollment in the Basic Course or before enrollment may still meet the requirement. Related required and elective courses taken for university degree requirements may also satisfy the requirement. Some of the Professional Military Education required courses may be waived.

## Sponsored Activities

The Department of Military Science sponsors the following voluntary extracurricular activities to provide students in both the Basic Course and Advanced Course with additional opportunities to develop leadership in conjunction with extending the student's knowledge of military skills:

1. The Army ROTC Tiger Color Guard-Members develop skill in standard drill and military ceremonies. The team provides color guards at the University of Memphis athletic events and drills competitively against ROTC teams of other colleges and universities. The team is open to individuals enrolled in any Military Science course.

2. U of M Ranger Company-Members develop skills associated with patrolling, mountaineering, survival training, and other similar activities. The Ranger Company is an adventure-type unit under the direction of Army ROTC Advanced Course cadets. Membership is open to all interested full-time students.

## Minor

### Military Science Minor

#### Requirements

A minor in Military Science can be obtained through meeting the following requirements: 19 semester hours consisting of

- ARMY 3100 - Leadership Laboratory
- ARMY 3105 - American Military History
- ARMY 3111 - Adaptive Tactical Lead I
- ARMY 3115 - Advanced Leadership Laboratory
- ARMY 3121 - Leadership in Changing Environ
- ARMY 4100 - Advanced Leadership Laboratory
- ARMY 4111 - Developing Adaptive Leaders
- ARMY 4115 - Advanced Leadership Laboratory
- ARMY 4121 - Leadership in Complex World

### Department of Naval Science

The Department of Naval Science develops future officers mentally, morally, and physically, and instills in them the highest ideals of duty, loyalty, and core values of Honor, Courage, and Commitment in order to commission college graduates as Naval officers. These students will possess a basic professional background, will be motivated toward careers in the Naval Service, and have a potential for future development in mind and character so as to assume the highest responsibilities of command, citizenship, and government.

#### Requirements

The general requirements for enrollment in the NROTC are:

1. Be a United States citizen or national;
2. Have no moral obligations or personal convictions that will prevent bearing of arms and supporting and defending the Constitution of the United States against all enemies, foreign and domestic or to taking an oath to perform such acts;
3. Be at least 17 years of age on or before 1 September of the year of enrollment and less than 27 years of age on 31 December of the year an applicant expects to graduate, complete all NROTC training requirements, and be commissioned. Those with prior or current active duty in the Armed Forces may be granted age waiver equal to the number of months served. Those granted the maximum age waiver must not have reached their 30th birthday by 31 December of the year graduation and commissioning are anticipated;
4. Meet physical requirements;
5. Possess a high school diploma or equivalent certificate;
6. Be accepted for admission as a full-time student at the University of Memphis.

### National Four-Year Scholarship

Recipients of National Four-Year scholarships are selected from applicants through a national competition. Applicants apply for either Navy Option or Marine option and selectees are appointed midshipmen in either the United States Naval Reserve (USNR) or United

States Marine Corps Reserve (USMCR), as appropriate. Selectees also are granted the compensation and benefits authorized by law and current policy not to exceed four years (40 months or 50 months with approved fifth year benefits). During this period, the government pays for college tuition, authorized fees, a textbook stipend, a subsistence allowance as prescribed by law and Navy policy, and provides uniforms or compensation in lieu.

## College Program

The College Program is an alternative route into the NROTC program, and is for individuals who were not selected for a national scholarship or who did not apply for a national scholarship. Individuals can apply for the College Program at anytime. College Program students receive no monetary benefit from being in the program, but are given all uniforms.

## Minor

### Naval Sciences Minor

#### Requirements

Completion of 18 semester hours in the following:

- NAVY 1500 - Introduction to Naval Science
- NAVY 1600 - Sea Power/Maritime Affairs
- NAVY 2500 - Naval Leadership & Management
- NAVY 4600 - Naval Leadership and Ethics (9 hours total)

#### Select Three Courses From the Following Electives:

- NAVY 2600 - Naval Ship Systems I/Engr
- NAVY 3500 - Navigation
- NAVY 3520 - Evolution of Warfare
- NAVY 3600 - Naval Operations & Seamanship
- NAVY 3620 - Officer Candidate School Prep
- NAVY 4500 - Naval Ship Systems II/Weapons
- NAVY 4520 - Fundamentals of Maneuver Warfare

## Note

The Naval Science Minor and all Naval Science courses do not require enrollment in the Naval ROTC program and are open to all University of Memphis students.

## Department of Philosophy



Program objectives for a B.A. in Philosophy are to: (a) recognize patterns of valid and fallacious reasoning, and basics of logical theory; (b) read major philosophical texts analytically and be able to write out critical evaluations of philosophical arguments; (c) be familiar with major ethical theories and their practical applications; (d) possess a basic knowledge of the history of philosophy, in particular Ancient Philosophy and Modern Philosophy; (e) be able to engage critically both the primary and secondary literature on philosophical subject matter, to present one's critical assessment orally to a group, and to produce a written document reflecting one's independent research on a philosophical subject.

## Major

### Philosophy, (B.A.)

The Department of Philosophy offers courses in all areas of philosophy, providing students the chance to investigate life's biggest questions: What is happiness? Is morality relative? What is justice, or freedom, or equality? What, and who, am I? Do I really have a race or a gender? Is my mind anything more than just the activity of my brain? Does God exist? And so on. The philosophy major is also an excellent preparation for a number of other careers from law to medicine to business to seminary. Year after year, philosophy majors demonstrate superior achievement on all standardized graduate tests including the GRE, LSAT, and MCAT. Philosophy is an especially good pre-law major, and our graduates are routinely admitted to their school of choice, including such top law schools as Harvard, Yale, the University of Virginia, and the University of Tennessee.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### The Major (30 hours)

Completion of 30 semester hours in philosophy courses including

- PHIL 1101 - Fundamental Issues/Philosophy
- or
- PHIL 1102 - Values and Modern World
- PHIL 1611 - Elementary Logic
- PHIL 3001 - History of Ancient Philosophy

- PHIL 3002 - History of Modern Philosophy
- PHIL 3411 - Contemporary Moral Problems
- or
- PHIL 3511 - Ethical Theory
- and
- 15 additional upper division semester hours

To prepare philosophy students for success in a number of fields, the department offers courses in the following sub-divisions of philosophy

### Philosophy of Law/Political Philosophy

- PHIL 3411 - Contemporary Moral Problems
- PHIL 3511 - Ethical Theory
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3515 - Environmental Ethics
- PHIL 3516 - Philosophy of Law
- PHIL 4551 - Social and Political Philosophy

### Ethics/Social Philosophy

- PHIL 3411 - Contemporary Moral Problems
- PHIL 3452 - Feminist Theory
- PHIL 3511 - Ethical Theory
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics
- PHIL 3515 - Environmental Ethics
- PHIL 3741 - African American Philosophy
- PHIL 4551 - Social and Political Philosophy

### Philosophy of Religion/Religious Studies

- PHIL 3411 - Contemporary Moral Problems
- PHIL 3451 - Existentialism
- PHIL 3511 - Ethical Theory
- PHIL 3701 - Human and the Divine
- PHIL 3702 - Philosophy of Religion
- PHIL 3721 - Chinese Philosophy

### Philosophy/Contemporary Culture

- PHIL 3411 - Contemporary Moral Problems
- PHIL 3451 - Existentialism

- PHIL 3452 - Feminist Theory
- PHIL 3511 - Ethical Theory
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3741 - African American Philosophy
- PHIL 3771 - Philosophy in Literature
- PHIL 3781 - Philosophy and Film
- PHIL 4441 - Recent Continental Philosophy
- PHIL 4671 - Aesthetics

## Philosophy of Science/Epistemology

- PHIL 3460 - Nature/Mind/Knowledge
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3515 - Environmental Ethics
- PHIL 3621 - Intermediate Logic
- PHIL 4421 - Philosophy of Mind
- PHIL 4422 - Recent Anglo American Phil
- PHIL 4632 - Advanced Logic
- PHIL 4661 - Philosophy of Science

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

This program is open to philosophy majors with a 3.0 overall average and a 3.5 average in philosophy. The student will complete, with a minimum grade of "B", a thesis submitted for credit in PHIL 4891. The thesis topic must be approved by the thesis director before the student registers for PHIL 4891.

Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Philosophy." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Typical 4-Year Philosophy Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Foreign Language/B.A. (3)
  - MATH (3-4) \*
- PHIL 1101 - Fundamental Issues/Philosophy

or

- PHIL 1102 - Values and Modern World
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
  - Foreign Language/B.A. (3)
- PHIL 1611 - Elementary Logic
  - Social/Behavioral Sciences (3) \*
  - Elective (3)

## Semester Totals 30-31 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - History\*/Foreign Lang (3)
  - Elective (3)
- PHIL 3001 - History of Ancient Philosophy
  - Natural Science (4) \*
  - Social/Behavioral Sciences (3) \*
  - History\*/Foreign Lang (3)
  - UD PHIL (3)
- PHIL 3002 - History of Modern Philosophy
  - Natural Science (4) \*

## Semester Totals 32 hrs

## Junior Year

- Elective (3)
- COMM 2381 - Oral Communication
- PHIL 3411 - Contemporary Moral Problems
- or
- PHIL 3511 - Ethical Theory
  - History\*/Elective (3)
  - UD PHIL (3)
  - Fine Arts (3) \*
  - History\*/Elective (3)
  - UD PHIL (3)
  - UD Elective (3)
  - UD PHIL (3)

Semester Totals 30 hrs

## Senior Year

- Elective (3)
- UD PHIL (3)
- UD Elective (3)
- UD Elective (3)
- UD Elective (3)
- UD Elective (3)
- UD Elective (3)
- Elective (3)
- Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### Philosophy Minor

#### Requirements

Completion of 18 semester hours in philosophy courses, including

- PHIL 1101 - Fundamental Issues/Philosophy
- or
- PHIL 1102 - Values and Modern World
- PHIL 1311 - Critical Thinking
- or
- PHIL 1611 - Elementary Logic
  - 12 upper division semester hours

## Note

In consultation with the coordinator of undergraduate studies in philosophy, a student may design a minor (18 hours) that applies to the student's major area of study.

## Department of Physics and Materials Science

Program objectives for a B.S. in Physics are: (a) Acquire knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving sessions.

## Major

### Physics - Applied Physics Concentration, (B.S.)

#### Physics Major (B.S.)

Program objectives for a B.S. in Physics are: (a) Acquire knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving sessions.

#### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

#### Mathematics

- MATH 1910 - Calculus I

#### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

## The Major: (59-66 hours in addition to University General Education Program)

### Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses

### Applied Physics (21 hours):

- PHYS 2990 - Research in Physics I
- PHYS 3990 - Research in Physics II
- PHYS 4211 - Waves and Optics
- PHYS 4410 - Intro Quantum Theory
- MECH 1314 - Mech Engr Computing II
- PHYS 4230 - Electronics

### Plus 3 Credit Hours Selected From the Following List of Courses:

- PHYS 3060 - Advanced Physics Methodology
- PHYS 4230 - Electronics
- PHYS 4420 - Intro Computational Physics
- PHYS 4720 - Materials Physics
- PHYS 4820 - Materials Physics Lab
- PHYS 4610 - Solid State Physics
- PHYS 4620 - Device Physics and Microfabric
- CIVL 2131 - Statics
- MECH 2332 - Dynamics

- MECH 3322 - Mechanics of Materials
- MECH 3301 - Engineering Analysis
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 3341 - Numerical/Statistical Methods
- MECH 3351 - Heat Transfer I
- MECH 3355 - Thermo/Heat Transfer Lab
- MECH 4393 - Appld Finite Element Analysis

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Typical 4-Year Physics Sequence Applied Physics Concentration

### Freshman Year

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- MATH 1910 - Calculus I
- ENGL 1010 - English Composition
  - Elective (3)
- EECE 1202 - Elec/Comp Engr Concepts
  
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- MATH 1920 - Calculus II
- MECH 1314 - Mech Engr Computing II
- ENGL 1020 - English Comp/Analysis
- PHYS 2990 - Research in Physics I
  - Elective (1)



## Semester Totals 29 hrs

### Sophomore Year

- PHYS 2130 - Intermediate Physics
- MATH 2110 - Calculus III
- EECE 2201 - Circuit Analysis I
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- PHYS 4230 - Electronics
  
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- MATH 2120 - Differential Equations
  - UD PHYS/CIVL/MECH\*\*
  - Social/Behavioral Science

## Semester Totals 31 hrs

### Junior Year

- PHYS 3111 - Mechanics I
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- ENGL 2201 - Literary Heritage \*
  
- or
- ENGL 2202 - Lit Heritage: African-American \*
  - History (3) \*
  - UD elective (3)
  
- PHYS 3211 - Electricity/Magnetism I
- PHYS 3990 - Research in Physics II
- COMM 2381 - Oral Communication \*
  - History (3) \*
  - UD elective (3)

## Semester Totals 30 hrs

### Senior Year

- PHYS 4211 - Waves and Optics
  - UD PHYS/CIVL/MECH
  - Humanities\*
  - Elective (3)
- PHYS 4410 - Intro Quantum Theory

- PHYS 4510 - Thermal and Statistical Phys
  - UD PHYS/CIVL/MECH
  - Humanities\*
  - Social/Behavioral Sciences\*
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*One of PHYS 3060, PHYS 4230, PHYS 4420, PHYS 4720, PHYS 4820, PHYS 4610, PHYS 4620, CIVL 2131, MECH 2332, MECH 3322, MECH 3301, MECH 3331, MECH 3335, MECH 3341, MECH 3351, MECH 3355, MECH 4393.

## **Physics - General Physics Concentration, (B.S.)**

### **Physics Major (B.S.)**

Program objectives for a B.S. in Physics are: (a) Acquire knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving sessions.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

### **Mathematics**

- MATH 1910 - Calculus I

## Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

## The Major: (59-66 hours in addition to University General Education Program)

### Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses

## General Physics (21 hours):

- PHYS 2990 - Research in Physics I
- PHYS 3060 - Advanced Physics Methodology
- PHYS 3990 - Research in Physics II
- PHYS 4410 - Intro Quantum Theory
- PHYS 4420 - Intro Computational Physics
- PHYS 4211 - Waves and Optics
  - plus six (6) hours of upper division PHYS courses.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Typical 4-Year Physics Sequence General Physics Concentration

### Freshman Year

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- MATH 1910 - Calculus I
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 1010 - English Composition
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- MATH 1920 - Calculus II
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- ENGL 1020 - English Comp/Analysis

Semester Totals 30 hrs

### Sophomore Year

- PHYS 2130 - Intermediate Physics
- MATH 2110 - Calculus III
- PHYS 2990 - Research in Physics I
- COMM 2381 - Oral Communication
  - Elective (3)
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3010 - Intro Modern Physics
- MATH 2120 - Differential Equations
  - Elective (3)
  - Social/Behavioral Sciences (3) \*

Semester Totals 30 hrs

## Junior Year

- PHYS 3111 - Mechanics I
- PHYS 3060 - Advanced Physics Methodology
- PHYS 3990 - Research in Physics II
  - History (3) \*
  - UD Elective (1)
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American
  
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4420 - Intro Computational Physics
  - History (3) \*
  - Humanities (3) \*
  - Social/Behavioral Sciences (3) \*

Semester Totals 30 hrs

## Senior Year

- PHYS 4410 - Intro Quantum Theory
- PHYS 4211 - Waves and Optics
  - UD elective (3)
  - UD PHYS (3)
  - Elective (3)
- PHYS 4510 - Thermal and Statistical Phys
  - UD PHYS (3)
  - Humanities (3) \*
  - UD Elective (3)
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Physics - Materials Science Concentration, (B.S.)

### Physics Major (B.S.)

Program objectives for a B.S. in Physics are: (a) Acquire knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving sessions.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

#### Mathematics

- MATH 1910 - Calculus I

#### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

### The Major: (59-66 hours in addition to University General Education Program)

Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4510 - Thermal and Statistical Phys

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses

## Materials Science (21 hours):

- PHYS 2990 - Research in Physics I
- PHYS 3990 - Research in Physics II
- PHYS 4410 - Intro Quantum Theory
- PHYS 4610 - Solid State Physics
- PHYS 4720 - Materials Physics
- PHYS 4820 - Materials Physics Lab
- PHYS 4994 - Research in Materials Physics

## Plus One of

- PHYS 4020 - Soft Matter/Biological Physics
    - PHYS 4060
  - PHYS 4230 - Electronics
  - PHYS 4420 - Intro Computational Physics
  - PHYS 4620 - Device Physics and Microfabric
- ;
- MECH 3320 - Engineering Materials
  - MECH 3322 - Mechanics of Materials
  - CIVL 3322 - Mechanics of Materials

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis

based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Typical 4-Year Physics Sequence Materials Science Concentration

### Freshman Year

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- MATH 1910 - Calculus I
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 1010 - English Composition
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- MATH 1920 - Calculus II
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- ENGL 1020 - English Comp/Analysis

Semester Totals 30 hrs

### Sophomore Year

- PHYS 2130 - Intermediate Physics
- MATH 2110 - Calculus III
- COMM 2381 - Oral Communication
  - Elective (3)
- PHYS 2990 - Research in Physics I
- PHYS 3011 - Methods of Theoretical Phys I
- MATH 2120 - Differential Equations
- PHYS 3010 - Intro Modern Physics
  - Humanities (3) \*
  - Social/Behavioral Sci (3) \*

UD Elective (1)

Semester Totals 31 hrs

### Junior Year

- PHYS 3111 - Mechanics I



- UD PHYS/MECH/CIVL (3) \*\*
- Elective (3)
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- PHYS 3990 - Research in Physics II
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4510 - Thermal and Statistical Phys
- PHYS 4720 - Materials Physics
  - History (3) \*
  - Elective (3)

Semester Totals 29 hrs

## Senior Year

- PHYS 4410 - Intro Quantum Theory
- History\*
- PHYS 4820 - Materials Physics Lab
  - Social/Behavioral Sciences (3) \*
  - UD Elective (3)
- PHYS 4610 - Solid State Physics
- PSYC 4994 - Senior Thesis
  - Humanities (3) \*
  - UD Elective (3)
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*One of PHYS 4020, 4060, PHYS 4230, PHYS 4420, PHYS 4620, MECH 3320, CIVL 3322, MECH 3322

## Physics - Physics for Medical Sciences Concentration, (B.S.)

### Physics Major (B.S.)

Program objectives for a B.S. in Physics are: (a) Acquire knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving sessions.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

#### Mathematics

- MATH 1910 - Calculus I

#### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

### The Major: (59-66 hours in addition to University General Education Program)

Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4510 - Thermal and Statistical Phys

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses

## Physics for Medical Sciences (25 hours):

- PHYS 4040 - Medical Physics
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3501 - Foundation/Bioorganic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- CHEM 4511 - Biochemistry I
- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab
- BIOL 3130 - Cell Biology

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Typical 4-Year Physics Sequence Physics for Medical Sciences Concentration

### Freshman Year

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- MATH 1910 - Calculus I
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 1010 - English Composition
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- MATH 1920 - Calculus II
- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ENGL 1020 - English Comp/Analysis

Semester Totals 30 hrs

### Sophomore Year

- PHYS 2130 - Intermediate Physics
- MATH 2110 - Calculus III
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- COMM 2381 - Oral Communication
- PHYS 3011 - Methods of Theoretical Phys I
- MATH 2120 - Differential Equations
- PHYS 3010 - Intro Modern Physics
- BIOL 1120 - General Biology II
- BIOL 1121 - General Biol II Lab

Semester Totals 28 hrs

### Junior Year

- PHYS 3111 - Mechanics I
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
- BIOL 3130 - Cell Biology
  - History (3) \*
  - Elective (3)
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4040 - Medical Physics
  - History (3) \*
- ENGL 2201 - Literary Heritage \*

or

- ENGL 2202 - Lit Heritage: African-American \*
- UD Elective (3)

Semester Totals 31 hrs

## Senior Year

- CHEM 3511 - Foundations/Bioorganic CHEM
- CHEM 3501 - Foundation/Bioorganic Chem Lab
  - Humanities (3) \*
  - UD PHYS (3)
  - Social/Behavioral Sciences (3) \*
- CHEM 4511 - Biochemistry I
  - Humanities (3) \*
  - Social/Behavioral Sciences (3) \*
  - UD Elective (3)
- PHYS 4510 - Thermal and Statistical Phys

Semester Totals 31 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Physics - Second Major for Engineering Students, (B.S.)**

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

### Mathematics

- MATH 1910 - Calculus I

## Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

## The Major: (59-66 hours in addition to University General Education Program)

### Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4211 - Waves and Optics
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Second Major for Engineering Students

A total of twenty-nine (29) semester hours beyond PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121, many of which will count toward the engineering degree or are already required by the engineering major. Since Biomedical, Civil, Computer, Electrical, and Mechanical engineering students take different courses to satisfy their degree requirements, the program for the second major in physics is different for each engineering discipline. For details, please contact the Department of Physics and Materials Science or the department's web site at:

[http://www.memphis.edu/physics/undergraduate/2nd\\_major\\_requirements.php](http://www.memphis.edu/physics/undergraduate/2nd_major_requirements.php)

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Physics - Second Major for the Bachelor of Science Degree, (B.S.)

Program objectives for a B.S. in Physics are: (a) knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

### Mathematics

- MATH 1910 - Calculus I

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

## The Major: (59-66 hours in addition to University General Education Program)

Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4211 - Waves and Optics
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Second Major for the Bachelor of Science Degree

A total of twenty-nine (29) semester hours beyond PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121, many of which are already required by the primary major. Since the students in each B.S. degree-granting department take different courses to satisfy their degree requirements, the program for the second major in Physics is different for each discipline. For details, please contact the Department of Physics and Materials Science or check the department's website at:

[http://www.memphis.edu/physics/undergraduate/2nd\\_major\\_requirements.php](http://www.memphis.edu/physics/undergraduate/2nd_major_requirements.php)

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.



Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Minor

### Physics Minor

#### Requirements

Completion of 20 semester hours in physics courses, including

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable but not recommended)
  - 12 additional upper division hours.

## Accelerated Bachelor/Masters

### Physics, (Accelerated B.S./M.S.)

Program objectives for a B.S. in Physics are: (a) knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

#### Mathematics

- MATH 1910 - Calculus I

## Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

## The Major: (59-66 hours in addition to University General Education Program)

### Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4211 - Waves and Optics
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Accelerated B.S./M.S. Program in Physics

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Physics during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Physics and Materials Science.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.S. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Department of Physics and Materials Science department. Each applicant will complete an interview with the graduate academic coordinator in physics.

Students must also apply to the Graduate School for the accelerated B.S./M.S. program, which allows them to take graduate courses in physics. To continue in the program past the B.S., students must apply for full admission into the Graduate School and into the M.S. program of the Department of Physics and Materials Science.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Physics, (B.S.)/Biomedical Engineering, (M.S.)

Program objectives for a B.S. in Physics are: (a) knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

### Mathematics

- MATH 1910 - Calculus I

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

## The Major: (59-66 hours in addition to University General Education Program)

### Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4211 - Waves and Optics
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Dual-Degree Programs

Highly motivated and talented students may pursue an undergraduate degree (B.S.) in Physics followed by a graduate (M.S.) in either Physics or Biomedical Engineering in a special five-year program. This option requires serious commitment, careful planning with the student's advisor, and summer research work leading toward a Master's thesis. Students interested in pursuing this option should contact an undergraduate advisor in the Physics and Materials Science department.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Physics, (B.S./M.S.)

Program objectives for a B.S. in Physics are: (a) knowledge of core principles in classical mechanics, electromagnetism, thermal physics, quantum mechanics, mathematical methods, optics, and modern physics; (b) ability to discriminate between relevant and irrelevant principles and facts in problem solving; (c) an understanding of research methodology in physics; (d) ability to effectively communicate scientific results in both oral and written reports; (e) ability to use computers for data analysis, literature search, scientific writing, and the ability to use other specialized research equipment; (f) ability to collaborate with other students in and out of the laboratory and during problem-solving.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following requirements specified for the Physics major:

### Mathematics

- MATH 1910 - Calculus I

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

## The Major: (59-66 hours in addition to University General Education Program)

Completion of

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc

- PHYS 2121 - Sci/Engr Phys Lab II (PHYS 2010/PHYS 2011, PHYS 2020/PHYS 2021 are acceptable, but not recommended)
- PHYS 2130 - Intermediate Physics
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- PHYS 3111 - Mechanics I
- PHYS 3211 - Electricity/Magnetism I
- PHYS 4211 - Waves and Optics
- PHYS 4510 - Thermal and Statistical Phys
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab (the CHEM courses are included in the University General Education Program requirements)
- MATH 1910 - Calculus I (this course is included in the University General Education Program requirements)
- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
  - or equivalent courses.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Dual-Degree Programs

Highly motivated and talented students may pursue an undergraduate degree (B.S.) in Physics followed by a graduate (M.S.) in either Physics or Biomedical Engineering in a special five-year program. This option requires serious commitment, careful planning with the student's advisor, and summer research work leading toward a Master's thesis. Students interested in pursuing this option should contact an undergraduate advisor in the Physics and Materials Science department.

## Honors Program

This program is open to physics majors who maintain a grade point average of at least 3.25, both overall and in physics, have achieved junior standing, and have completed PHYS 3060. Students admitted to the honors program must complete 8 hours of upper-division physics honors courses: (1) PHYS 4991/PHYS 4992 Honors Research in Physics, where the student will conduct original scholarly work under the direction of an honors research advisor; (2) PHYS 4999 Senior Honors Thesis, where the student will write a thesis based upon background reading and the experimental research completed in PHYS 4991/PHYS 4992; (3) PHYS 4911 Senior Honors Seminar, where the student will give a presentation based on the work completed in PHYS 4991/PHYS 4992.

Those students who complete the physics honors program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Physics." Moreover, the student's diploma and record at the University of Memphis will reflect this distinction.

## Department of Political Science

Program objectives for a B.A. in Political Science are: (a) basic understanding of political institutions and processes in the United States and other countries; (b) basic understanding of the ways in which countries interact with one another, directly or through intermediary institutions; (c) basic understanding of the development of political thought; (d) able to apply basic political science methodologies to political science questions; (e) able to analyze and explain political processes and outcome; (f) able to interpret political attitudes, values, and beliefs; (g) have the critical thinking skills necessary for careers in government, business, law, or academia.

## Major

### Political Science, (B.A.)

Program objectives for a B.A. in Political Science are: (a) basic understanding of political institutions and processes in the United States and other countries; (b) basic understanding of the ways in which countries interact with one another, directly or through intermediary institutions; (c) basic understanding of the development of political thought; (d) able to apply basic political science methodologies to political science questions; (e) able to analyze and explain political processes and outcome; (f) able to interpret political attitudes, values, and beliefs; (g) have the critical thinking skills necessary for careers in government, business, law, or academia.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### The Major (36 hours)

For the purposes of defining undergraduate requirements for the political science major and minor, the department employs four subfields, with the following courses in each:

#### American Government and Politics:

- POLS 1030 - American Government
- POLS 3211 - State/Local Government
- POLS 3213 - Intro to Public Policy
- POLS 3215 - Interest Groups/Amer Politics
- POLS 3216 - Political Parties/Elections
- POLS 3217 - The Political Media
- POLS 3218 - The American Presidency
- POLS 3219 - Judicial Process
- POLS 3220 - U. S. Congress
- POLS 3221 - Public Opinion

- POLS 3405 - Intro Law/Jurisprudence
- POLS 4200 - Environmental Law/Policy/Regulation
- POLS 4211 - Const Law/National Powers
- POLS 4212 - Const Law Civil Liberty
- POLS 4222 - Urban Politics
- POLS 4223 - Issues/Urban Politics
- POLS 4701 - Policy Perspectives

## Comparative Politics:

- POLS 1301 - Intro to Comparative Politics
- POLS 3302 - West Europe Govt/Politics
- POLS 3306 - Latin American Govt/Politics
- POLS 3309 - Govt/Politics of Mid East
- POLS 3310 - Politics/Developed World
- POLS 3320 - Human Rights/World Politics
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3340 - Power/Politics/State
- POLS 4307 - Govt and Pol Communist China
- POLS 4315 - Revolution/Political Violence
- POLS 4317 - Democratic Transitions
- POLS 4820 - Political History of Israel

## International Relations:

- POLS 1501 - International Relations
- POLS 3505 - International Organizations
- POLS 3506 - American Foreign Policy
- POLS 3509 - Contemporary Problems Intl Relation
- POLS 4504 - International Law
- POLS 4506 - Problems American Foreign Policy
- POLS 4508 - Theories International Relations
- POLS 4510 - Politics of Global Economy
- POLS 4511 - International Security
- POLS 4512 - Global Environmental Politics

## Political Theory:

- POLS 1101 - Intro Ancient Political Thought
- POLS 1102 - Intro Modern Political Thought
- POLS 3102 - Religion and Politics
- POLS 3401 - Legal/Political Thought Classical
- POLS 3402 - Legal/Political Thought Modern
- POLS 3410 - Contemporary Political Thought
- POLS 3415 - Feminist Political Theory
- POLS 3420 - Race and Politics in U.S.
- POLS 4405 - Origin/Development American Political Thought
- POLS 4415 - African-American Political Thought to 1900
- POLS 4416 - African-American Political Thought from 1900



## Note:

Students must complete POLS 1030 and POLS 4101.

Students must complete at least 6 hours in each of the four subfields listed above.

No more than 9 total hours of internship (POLS 4230, POLS 4231), mock trial (POLS 4709), research and study abroad (POLS 4399), and independent study (POLS 4702) combined may be counted toward the 36 hours required for a major in Political Science. Of these 9 hours, no more than three hours of Administrative Internship (POLS 4231), and no more than six total hours in any combination of POLS 4709, POLS 4399, and POLS 4702 may be counted toward the major.

At least 15 hours in political science must be earned in residence at the University of Memphis.

NOTE: Students who have successfully completed an equivalent social statistics course prior to declaring a Political Science major are exempted from the requirement to take POLS 4101, and must substitute another upper-division course in Political Science.

NOTE: The College offers Pre-Law advising for those interested in careers in law. Also, any major in Political Science may earn a second major in International Studies. Political Science courses in International Relations and Comparative Politics fulfill requirements for both the Political Science major and the interdisciplinary major in International Studies.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The department offers an honors program to qualified majors who choose to pursue a more sophisticated knowledge of the discipline, a more rigorous level of analysis, and a deeper understanding of politics. Students who have completed 55 hours of course work (with at least 9 hours in Political Science) and have a minimum over-all grade point average of 3.0 (with a minimum in Political Science of 3.25), or who can present equivalent qualifications, are invited to apply for admission to the program. The program requires 18 hours of honors course work, 12 or more of which must be upper-division Political Science courses, and minimum final grade point averages of 3.00 overall, 3.25 in Political Science, and 3.25 in honors coursework. Honors students also have the option of completing a Senior Thesis in Political Science (POLS 4999). Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Political Science." Moreover, the student's diploma and the record at the University of Memphis will reflect this distinction. Details of the program are available in the Political Science Office.

## Typical 4-Year Political Science Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH\* (3-4)
- POLS 1030 - American Government
  - Elective (3)
  - Foreign Language/B.A. (3)

- ENGL 1020 - English Comp/Analysis
  - Elective (3)
- POLS 1501 - International Relations
- POLS 1101 - Intro Ancient Political Thgt
- or
- POLS 1102 - Intro Modern Political Thought
  - Foreign Language/B.A. (3)

Semester Totals 30-31 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - History\* (3)
  - Natural Science\* (4)
- POLS 1301 - Intro to Comparative Politics
  - Fine Arts\* (3)
  - POLS Political Theory (3)
  - Natural Science\* (4)
  - Elective (3)
  - Elective (3)
- COMM 2381 - Oral Communication

Semester Totals 32 hrs

## Junior Year

- UD elective (3)
- Elective (3)
- UD POLS (3)
- UD POLS Comparative Politics (3)
- POLS 4101 - Political Statistics
  - UD POLS Amer. Gov. & Policy (3)
  - UD POLS International Relations (3)
  - UD POLS (3)
  - UD elective (3)
  - Elective (3)

Semester Totals 30 hrs

## Senior Year

- POLS 4212 - Const Law Civil Liberty
- or
- POLS 4405 - Origin/Dev Amer Pol Thought
  - Elective (3)
  - Elective (3)
  - UD elective (3)
  - UD elective (3)
  - UD elective (3)
  - UD elective (3)
  - UD elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### Political Science Minor

#### Requirements

To complete the minor in Political Science, a student must earn 18 hours in political science discipline to the following conditions: a) students must complete at least 3 hours each in three of the four areas listed in the Political Science, (B.A.) ; b) students must complete at least 9 hours in courses at the 3000-level or higher; c) no more than 6 hours of internship (POLS 4230, POLS 4231), mock trial (POLS 4709), research and studies abroad (POLS 4399), and independent study (POLS 4702) combined may be counted toward the 18 hours required for a minor in Political Science.

## Accelerated Bachelor/Masters

### Political Science, (Accelerated B.A./M.A)

Program objectives for a B.A. in Political Science are: (a) basic understanding of political institutions and processes in the United States and other countries; (b) basic understanding of the ways in which countries interact with one another, directly or through intermediary institutions; (c) basic understanding of the development of political thought; (d) able to apply basic political science methodologies to political science questions; (e) able to analyze and explain political processes and outcome; (f) able to interpret political attitudes, values, and beliefs; (g) have the critical thinking skills necessary for careers in government, business, law, or academia.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### The Major (36 hours)

For the purposes of defining undergraduate requirements for the political science major and minor, the department employs four subfields, with the following courses in each:

#### American Government and Politics:

- POLS 1030 - American Government
- POLS 3211 - State/Local Government
- POLS 3213 - Intro to Public Policy
- POLS 3215 - Interest Groups/Amer Politics
- POLS 3216 - Political Parties/Elections
- POLS 3217 - The Political Media
- POLS 3218 - The American Presidency
- POLS 3219 - Judicial Process
- POLS 3220 - U. S. Congress
- POLS 3221 - Public Opinion
- POLS 3405 - Intro Law/Jurisprudence
- POLS 4200 - Envrmntl Law/Policy/Regulatr
- POLS 4211 - Const Law/National Powers
- POLS 4212 - Const Law Civil Liberty
- POLS 4222 - Urban Politics
- POLS 4223 - Issues/Urban Politics
- POLS 4701 - Policy Perspectives

## Comparative Politics:

- POLS 1301 - Intro to Comparative Politics
- POLS 3302 - West Europe Govt/Politics
- POLS 3306 - Latin American Govt/Politics
- POLS 3309 - Govt/Politics of Mid East
- POLS 3310 - Politics/Developed World
- POLS 3320 - Human Rights/World Politics
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3340 - Power/Politics/State
- POLS 4307 - Govt and Pol Communist China
- POLS 4315 - Revolution/Political Violence
- POLS 4317 - Democratic Transitions
- POLS 4820 - Political History of Israel

## International Relations:

- POLS 1501 - International Relations
- POLS 3505 - International Organizations
- POLS 3506 - American Foreign Policy
- POLS 3509 - Contmp Prblm Intl Relation
- POLS 4504 - International Law
- POLS 4506 - Prob American Foreign Policy
- POLS 4508 - Theories Internatl Relations
- POLS 4510 - Politics of Global Economy
- POLS 4511 - International Security
- POLS 4512 - Global Environmental Politics

## Political Theory:

- POLS 1101 - Intro Ancient Political Thgt
- POLS 1102 - Intro Modern Political Thought
- POLS 3102 - Religion and Politics
- POLS 3401 - Legal/Pol Thght Classical
- POLS 3402 - Legal/Political Thght Modern
- POLS 3410 - Contemporary Political Thght
- POLS 3415 - Feminist Political Theory
- POLS 3420 - Race and Politics in U.S.
- POLS 4405 - Origin/Dev Amer Pol Thought
- POLS 4415 - African-Am Pol Thght to 1900
- POLS 4416 - African-Am Pol Tht from 1900

## Note:

Students must complete POLS 1030 and POLS 4101.

Students must complete at least 6 hours in each of the four subfields listed above.

No more than 9 total hours of internship (POLS 4230, POLS 4231), mock trial (POLS 4709), research and study abroad (POLS 4399), and independent study (POLS 4702) combined may be counted toward the 36 hours required for a major in Political Science. Of these 9 hours, no more than three hours of Administrative Internship (POLS 4231), and no more than six total hours in any combination of POLS 4709, POLS 4399, and POLS 4702 may be counted toward the major.

At least 15 hours in political science must be earned in residence at the University of Memphis.

NOTE: Students who have successfully completed an equivalent social statistics course prior to declaring a Political Science major are exempted from the requirement to take POLS 4101, and must substitute another upper-division course in Political Science.

NOTE: The College offers Pre-Law advising for those interested in careers in law. Also, any major in Political Science may earn a second major in International Studies. Political Science courses in International Relations and Comparative Politics fulfill requirements for both the Political Science major and the interdisciplinary major in International Studies.

## Accelerated B.A./M.A Program in Political Science

This program allows outstanding undergraduates to begin the coursework for the Master of Arts in Political Science during their senior year. Students are encouraged to begin planning to enter the Accelerated B.A./M.A. program early in their undergraduate career, in consultation with their advisor in the Department of Political Science.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.A. degree while they also begin the coursework toward their M.A.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Political Science department. Each applicant will complete an interview with the graduate academic coordinator in political science.

Students must also apply to the Graduate School for the accelerated B.A./M.A. program, which allows them to take graduate courses in political science. To continue in the program past the B.A., students must apply for full admission into the Graduate School and into the Political Science department's M.A. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The department offers an honors program to qualified majors who choose to pursue a more sophisticated knowledge of the discipline, a more rigorous level of analysis, and a deeper understanding of politics. Students who have completed 55 hours of course work (with at least 9 hours in Political Science) and have a minimum over-all grade point average of 3.0 (with a minimum in Political Science of 3.25), or who can present equivalent qualifications, are invited to apply for admission to the program. The program requires 18 hours of honors course work, 12 or more of which must be upper-division Political Science courses, and minimum final grade point averages of 3.00 overall, 3.25 in Political Science, and 3.25 in honors coursework. Honors students also have the option of completing a Senior Thesis in Political Science (POLS 4999). Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degrees conferred "With Honors in Political Science." Moreover, the student's diploma and the record at the University of Memphis will reflect this distinction. Details of the program are available in the Political Science Office.

## Typical 4-Year Political Science Sequence

### Freshman Year

- ENGL 1010 - English Composition
    - MATH\* (3-4)
  - POLS 1030 - American Government
    - Elective (3)
    - Foreign Language/B.A. (3)
  - ENGL 1020 - English Comp/Analysis
    - Elective (3)
  - POLS 1501 - International Relations
  - POLS 1101 - Intro Ancient Political Thgt
- or
- POLS 1102 - Intro Modern Political Thought
    - Foreign Language/B.A. (3)

Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
    - History\* (3)
    - Natural Science\* (4)
  - POLS 1301 - Intro to Comparative Politics
    - Fine Arts\* (3)
    - POLS Political Theory (3)
    - Natural Science\* (4)
    - Elective (3)
    - Elective (3)
  - COMM 2381 - Oral Communication

Semester Totals 32 hrs

### Junior Year

- UD elective (3)
- Elective (3)

- UD POLS (3)
- UD POLS Comparative Politics (3)
- POLS 4101 - Political Statistics
  - UD POLS Amer. Gov. & Policy (3)
  - UD POLS International Relations (3)
  - UD POLS (3)
  - UD elective (3)
  - Elective (3)

Semester Totals 30 hrs

## Senior Year

- POLS 4212 - Const Law Civil Liberty
- or
- POLS 4405 - Origin/Dev Amer Pol Thought
  - Elective (3)
  - Elective (3)
  - UD elective (3)
  - UD elective (3)
  - UD elective (3)
  - UD elective (3)
  - UD elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Department of Psychology

Program objectives for a B.A. in Psychology are: (a) describe the nature of psychology as a discipline; (b) use the concepts, language, and major theories of the discipline to account for psychological phenomena; (c) demonstrate knowledge and understanding representing appropriate breadth and depth in selected content areas of psychology; (e) describe the basic characteristics of the science of psychology; (f) explain different research methods used by psychologists; (g) design and conduct basic studies to address psychological questions using appropriate research methods; (h) evaluate the appropriateness of conclusions derived from psychological research; (i) generalize research conclusions appropriately based on the parameters of particular research methods; (j) follow the APA Code of Ethics in the treatment of human and nonhuman participants in the design, data collection, interpretation, and reporting of psychological research; (k) use critical thinking effectively; (l) use reasoning to recognize, develop, defend, and criticize arguments and



other persuasive appeals; (m) approach problems effectively; (n) describe major applied areas of psychology (e.g., clinical, counseling, industrial/organizational, school, health); (o) identify appropriate applications of psychology in solving problems; (p) articulate how psychological principles can be used to explain social issues and inform public policy; (q) recognize the necessity for ethical behavior in all aspects of the science and practice of psychology; (s) recognize and understand the importance of academic integrity; (t) recognize and respect human diversity and understand that psychological explanations may vary across populations and contexts; (u) assess and justify engagement with respect to civic, social, and global responsibilities; (v) understand the limitations of psychological knowledge and skills.

## Major

### Psychology, (B.A.)

Program objectives for a B.A. in Psychology are: (a) describe the nature of psychology as a discipline; (b) use the concepts, language, and major theories of the discipline to account for psychological phenomena; (c) demonstrate knowledge and understanding representing appropriate breadth and depth in selected content areas of psychology; (e) describe the basic characteristics of the science of psychology; (f) explain different research methods used by psychologists; (g) design and conduct basic studies to address psychological questions using appropriate research methods; (h) evaluate the appropriateness of conclusions derived from psychological research; (i) generalize research conclusions appropriately based on the parameters of particular research methods; (j) follow the APA Code of Ethics in the treatment of human and nonhuman participants in the design, data collection, interpretation, and reporting of psychological research; (k) use critical thinking effectively; (l) use reasoning to recognize, develop, defend, and criticize arguments and other persuasive appeals; (m) approach problems effectively; (n) describe major applied areas of psychology (e.g., clinical, counseling, industrial/organizational, school, health); (o) identify appropriate applications of psychology in solving problems; (p) articulate how psychological principles can be used to explain social issues and inform public policy; (q) recognize the necessity for ethical behavior in all aspects of the science and practice of psychology; (s) recognize and understand the importance of academic integrity; (t) recognize and respect human diversity and understand that psychological explanations may vary across populations and contexts; (u) assess and justify engagement with respect to civic, social, and global responsibilities; (v) understand the limitations of psychological knowledge and skills.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements and are listed above.

### The Major (35 hours in Psychology)

#### Completion of

- PSYC 1030 - General Psychology
- PSYC 1300 - Careers in Psychology

- PSYC 3010 - Research and Statistics I
- PSYC 3020 - Research and Statistics II

## One Course from Each of the Three Content Areas Below:

### Cognitive and Neuroscientific Bases of Behavior:

- PSYC 3303 - Thinking/Cognitive Processes
- PSYC 3304 - Perceptual Psychology
- PSYC 3306 - Physiological Psyc
- PSYC 3307 - Animal Behavior
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 3530 - Psychology of Language
- PSYC 4305 - Mind/Brain/Intelligence

### Social and Developmental Bases of Behavior:

- PSYC 3103 - Child Psychology
- PSYC 3106 - Social Psychology
- PSYC 3236 - Psychology of Gender
- PSYC 3506 - Human Sexuality
- PSYC 4034 - Children Soc Relationships
- PSYC 4102 - Abnormal Child Psych

### Applications of Behavior:

- PSYC 3508 - Indust/Organizatnl Psyc
- PSYC 3509 - Applying Psyc/Community
- PSYC 3512 - Health Psychology
- PSYC 3520 - Legal/Forensic Psyc
- PSYC 4401 - Intro to Clinical Psychology
- PSYC 4507 - Psyc Internship

## Two of the Following 4-hour Lab Courses

- PSYC 3106 - Social Psychology
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 3512 - Health Psychology

## Psychology Field Test

All majors must take a Psychology Field Test during their senior year.

## Concentrations (24 hours):

The department offers three concentrations: (a) General Psychology (b) Behavioral Neuroscience (c) Cognitive Science. Students must complete the requirements for one concentration.

### General Psychology:

Completion of requirements above and additional upper division hours in PSYC to bring the PSYC total to at least 35 hours.

### Behavioral Neuroscience:

Completion of requirements above

- BIOL 1110 - General Biology I
- BIOL 1120 - General Biology II
- CHEM 1110 - General Chemistry I
- CHEM 1120 - General Chemistry II
- PSYC 3306 - Physiological Psyc
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 4505 - Special Prob/Behav Neurosci
- PSYC 4506 - Direct Rsch Behav Neuro
- PSYC 4997 - Senior Thesis/Behav Neurosci
  - additional upper division hours in PSYC courses to bring their PSYC total to at least 35 hours.

### Cognitive Science:

Completion of requirements above;

- PSYC 3303 - Thinking/Cognitive Processes

### At Least One Course From Either

- PSYC 3103 - Child Psychology
- or
- PSYC 3106 - Social Psychology

### At Least Two Courses From:

- PSYC 3304 - Perceptual Psychology
- PSYC 3305 - Psyc Learning/Memory
- PSYC 3306 - Physiological Psyc
- PSYC 3530 - Psychology of Language
- PSYC 4305 - Mind/Brain/Intelligence

- PSYC 4998 - Sr Thesis/Cognitive Science
- or
- PSYC 4999 - Honors Sr Thesis/Cognitive Sc
  - additional upper division hours in PSYC courses to bring their PSYC total to at least 35 hours.

## Students Choosing Cognitive Science Concentration

Students choosing Cognitive Science concentration must complete at least three of the following courses outside of psychology:

- PHIL 3460 - Nature/Mind/Knowledge
- PHIL 3621 - Intermediate Logic
- PHIL 4421 - Philosophy of Mind
- COMP 1800 - Problem Solving/Computers
- COMP 1900 - CS1: Intro Comp Science
- COMP 4001 - Computer Programming
- ENGL 3511 - Intro to Linguistics
- COMP 2700 - Discrete Structures

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Psychology Honors Program provides an opportunity for selected Psychology majors to enrich their learning experience through honors courses, independent study, a senior thesis, and extracurricular learning experiences. The program requires a minimum of 15 credit hours of honors work in psychology. Students who complete the program with a 3.25 cumulative grade point average will earn degrees that included the distinction "With Honors in Psychology." Please contact the department honors coordinator for more detailed information about the Psychology Honors Program and assistance in applying. Psychology majors may also be eligible to participate in the University Honors Program described elsewhere in this bulletin. Some psychology honors courses may be counted toward the requirement of the University Honors Program.

**Psychology Honors Classes.** The honors courses described below are open only to students in good standing in the Psychology Honors Program or the University Honors Program. Honors courses in Psychology include: (1) PSYC 1030 (General Psychology - Honors). Students who wish to enroll in this course during their first year may do so either by meeting the requirements for the University Honors Program or by instructor permission; (2) periodically offered honors sections of other courses in the psychology curriculum; (3) specialized honors courses; (4) Honors Special Topics; (5) Directed Research and Senior Thesis.

**Psychology Honors Contracts.** Students may ask the instructor of any psychology course to negotiate an honors contract, in which the instructor and student agree on additional honor-level requirements for the course.

**Psychology Honors Senior Thesis.** Students ask a psychology faculty member to serve as adviser for PSYC 4996 - Honors Senior Thesis, typically completed during the student's last semester. Before enrolling in PSYC 4996, the student should complete at least one semester of PSYC 4504 - Directed Research under the same faculty adviser who will oversee work in the honors thesis. Students specializing in Behavioral Neuroscience may choose to enroll in PSYC 4506 (Directed Research in Behavioral Neuroscience) and PSYC 4997 (Senior Thesis in Behavioral Neuroscience). The completed thesis is presented in writing and defended orally before a faculty committee.

## Typical 4-Year Psychology Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3-4) \*
- PSYC 1030 - General Psychology
- PSYC 1300 - Careers in Psychology
  - Foreign Language/B.A. (3)
  - Elective (ACAD 1100) (3)
- ENGL 1020 - English Comp/Analysis
  - Humanities (3) \*
  - PSYC Content Area 1 (3)
  - Elective (3)
  - Foreign Language/B.A. (3)

Semester Totals 31-32 hrs

### Sophomore Year

- PSYC 3010 - Research and Statistics I
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - PSYC Content Area 2 (3)
- COMM 2381 - Oral Communication
  - Foreign Language/B.A. (3)
- PSYC 3020 - Research and Statistics II
  - PSYC Content Area 3 (3)
  - History (3) \*
  - Foreign Language/B.A. (3)

Semester Totals 29 hrs

### Junior Year

- Fine Arts (3) \*
- UD PSYC (3)
- Natural Science (4) \*
- Elective (3)
- Elective (3)

- History (3) \*
- UD PSYC (3)
- Elective (3)
- Social/Behavioral Sciences (3) \*
- Elective (3)

Semester Totals 31 hrs

## Senior Year

- UD PSYC w/lab (4)
- Elective (3)
- Elective (3)
- UD Elective (3)
- UD Elective (2)

- UD PSYC w/lab (4)
- Natural Science (4) \*
- UD Elective (3)
- UD Elective (3)

Semester Totals 29 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### Psychology Minor

#### Requirements

Completion of 20 semester hours in psychology, including

- PSYC 1030 - General Psychology
- PSYC 3010 - Research and Statistics I

- PSYC 3020 - Research and Statistics II (or equivalent)
  - 9 additional upper-division hours.

## Department of Sociology

Program objectives for a B.A. in Sociology are: (a) an understanding of and competence in the major theories, statistical techniques, and methodological approaches of sociology; (b) development of theoretical, substantive, and methodological knowledge to conduct research projects or participate in applied research projects; (c) participation in an internship or discipline related experiences; (d) preparation for employment in a sociology-related field or advanced study in sociology or other graduate field.

### Major

#### Sociology Honors, (B.A.)

Program objectives for a B.A. in Sociology are: (a) an understanding of and competence in the major theories, statistical techniques, and methodological approaches of sociology; (b) development of theoretical, substantive, and methodological knowledge to conduct research projects or participate in applied research projects; (c) participation in an internship or discipline related experiences; (d) preparation for employment in a sociology-related field or advanced study in sociology or other graduate field.

#### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

#### College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

#### The Major (30 hours)

Completion of 30 semester hours in sociology,

- SOCI 1010 - Introduction to Sociology
- SOCI 3311 - Social Statistics
- SOCI 3322 - Methods of Social Research
  
- SOCI 4210 - Rise of Sociological Theory
- or
- SOCI 4211 - Contemp Sociological Theory
  
- SOCI 4999 - Senior Thesis Seminar (or SOCI 4998 for Honors students)

- 15 additional upper-division hours in SOCI.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

The Honors Program in Sociology requires 18 hours of honors work, at least 12 hours of which must be upper-division sociology courses. To complete the Honors Program, a student must have a minimum overall final grade point average of 3.00 in Sociology, and a 3.25 grade point average in honors course work.

Those students who complete the program and the regular college requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Sociology." Moreover, the student's diploma and the record at the University of Memphis will reflect this distinction. Please see the department's Faculty Honors Advisor for more details on the program.

## Typical 4-Year Sociology Sequence

### Freshman Year

- SOCI 1010 - Introduction to Sociology
- ENGL 1010 - English Composition
  - MATH\* (3-4)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - Humanities\* (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Foreign Language/B.A. (3)
  - Social/Behavioral Sciences\* (3)

### Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - History\* (3)
  - Elective (3)



- Natural Science\* (4)
- Elective (3)
- UD SOCI (3)
- Fine Arts\* (3)
- History\* (3)
- Natural Science\* (4)
- Elective (3)

## Semester Totals 32 hrs

## Junior Year

- SOCI 3311 - Social Statistics
  - UD SOCI (3)
  - Elective (3)
  - UD elective (3)
- COMM 2381 - Oral Communication
- SOCI 4210 - Rise of Sociological Theory
- or
- SOCI 4211 - Contemp Sociological Theory
  - UD SOCI (3)
  - UD SOCI (3)
  - UD elective (3)
  - Elective (3)

## Semester Totals 30 hrs

## Senior Year

- SOCI 3322 - Methods of Social Research
  - UD Elective (3)
  - UD SOCI (3)
  - UD elective (3)
  - Elective (3)
- SOCI 4999 - Senior Thesis Seminar
  - UD elective (3)
  - Elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Sociology, (B.A.)**

Program objectives for a B.A. in Sociology are: (a) an understanding of and competence in the major theories, statistical techniques, and methodological approaches of sociology; (b) development of theoretical, substantive, and methodological knowledge to conduct research projects or participate in applied research projects; (c) participation in an internship or discipline related experiences; (d) preparation for employment in a sociology-related field or advanced study in sociology or other graduate field.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

### **College and Degree (B.A.) Requirements (6-9 hours)**

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### **The Major (30 hours)**

Completion of 30 semester hours in sociology,

- SOCI 1010 - Introduction to Sociology
- SOCI 3311 - Social Statistics
- SOCI 3322 - Methods of Social Research
  
- SOCI 4210 - Rise of Sociological Theory
  
- or
  
- SOCI 4211 - Contemp Sociological Theory
  
- SOCI 4999 - Senior Thesis Seminar (or SOCI 4998 for Honors students)
  - 15 additional upper-division hours in SOCI.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year Sociology Sequence

### Freshman Year

- SOCI 1010 - Introduction to Sociology
- ENGL 1010 - English Composition
  - MATH\* (3-4)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - Humanities\* (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Foreign Language/B.A. (3)
  - Social/Behavioral Sciences\* (3)

Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - History\* (3)
  - Elective (3)
  - Natural Science\* (4)
  - Elective (3)
  - UD SOCI (3)
  - Fine Arts\* (3)
  - History\* (3)
  - Natural Science\* (4)
  - Elective (3)

Semester Totals 32 hrs

### Junior Year

- SOCI 3311 - Social Statistics
  - UD SOCI (3)
  - Elective (3)
  - UD elective (3)
- COMM 2381 - Oral Communication
- SOCI 4210 - Rise of Sociological Theory
- or
- SOCI 4211 - Contemp Sociological Theory
  - UD SOCI (3)
  - UD SOCI (3)
  - UD elective (3)
  - Elective (3)

Semester Totals 30 hrs

## Senior Year

- SOCI 3322 - Methods of Social Research
  - UD Elective (3)
  - UD SOCI (3)
  - UD elective (3)
  - Elective (3)
- SOCI 4999 - Senior Thesis Seminar
  - UD elective (3)
  - Elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### Sociology Minor

## Requirements

- SOCI 1010 - Introduction to Sociology
  - and 15 upper-division hours in SOCI.

## Accelerated Bachelor/Masters

### Sociology, (Accelerated B.A./M.A)

Program objectives for a B.A. in Sociology are: (a) an understanding of and competence in the major theories, statistical techniques, and methodological approaches of sociology; (b) development of theoretical, substantive, and methodological knowledge to conduct research projects or participate in applied research projects; (c) participation in an internship or discipline related experiences; (d) preparation for employment in a sociology-related field or advanced study in sociology or other graduate field.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### The Major (30 hours)

Completion of 30 semester hours in sociology,

- SOCI 1010 - Introduction to Sociology
- SOCI 3311 - Social Statistics
- SOCI 3322 - Methods of Social Research
  
- SOCI 4210 - Rise of Sociological Theory
  
- or
  
- SOCI 4211 - Contemp Sociological Theory
  
- SOCI 4999 - Senior Thesis Seminar (or SOCI 4998 for Honors students)
  - 15 additional upper-division hours in SOCI.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Accelerated B.A./M.A. Program in Sociology

This program allows outstanding undergraduates to begin the coursework for the Master of Arts in Sociology during their senior year. Students are encouraged to begin planning to enter the Accelerated B.A./M.A. program early in their undergraduate career, in consultation with their advisor in the Department of Sociology.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.A. degree while they also begin the coursework toward their M.A.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Sociology department. Each applicant will complete an interview with the graduate academic coordinator in sociology.

Students must also apply to the Graduate School for the accelerated B.A./M.A. program, which allows them to take graduate courses in sociology. To continue in the program past the B.A., students must apply for full admission into the Graduate School and into the Sociology department's M.A. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 5 Year Accelerated BA/MA Sociology Sequence (Thesis) (GA)

(SOC1 7210, SOC1 7320 and SOC1 6312 in senior year count as both grad and undergrad)

### Freshman Year (31 hrs)

#### First Semester Freshman

- ENGL 1010 - English Composition
- MATH 1420 - Foundations of Mathematics

or

- MATH 1710 - College Algebra
  - BA Foreign Language 1010 (3)
  - Lower Division Elective (3)
- SOC1 1010 - Introduction to Sociology

## Second Semester Freshman

- ENGL 1020 - English Comp/Analysis
  - Natural Science (4)
  - Social/Behavioral Science
  - BA Foreign Language 1020
  - Humanities

## Sophomore Year (31 hrs)

### First Semester Sophomore

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - BA Foreign Language 2010
  - Natural Science (4)
- SOCI 3422 - Racial/Ethnc Minorities

### Second Semester Sophomore

- SOCI 3311 - Social Statistics
  - Fine Arts
  - BA Foreign Language 2020
  - Elective (3)
  - Elective (3)

## Junior Year (36 hrs)

### First Semester Junior

- SOCI 3322 - Methods of Social Research
  - Upper Division Electives (6)
  - Lower Division Electives (6)
  - History

### Second Semester Junior

- SOCI 4210 - Rise of Sociological Theory
- or

- SOCI 4211 - Contemp Sociological Theory
  - Upper Division Electives (6)
  - Lower Division Electives (6)
  - Upper Division SOCI

## Senior Year (27 hrs)

### First Semester Senior

- SOCI 4999 - Senior Thesis Seminar
  - Elective (3)
  - SOCI 7210
  - SOCI 7230

### Second Semester Senior

- Upper Division Elective (6)
- Lower Division Elective (3)
- SOCI 6312
- SOCI 7000 level

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Fifth Year MA Program (24 hrs)

Total Hours Require for MA thesis option: 30

This plan: 30 (SOCI 7210, SOCI 7320 and SOCI 6312 in senior year count as both grad and undergrad; SOCI 7914 does not count toward this 30)

### First Semester 5th Year

- SOCI 7000 level



- SOCI 7996
- Grad Elective
- SOCI 7914

## Second Semester 5th Year

- SOCI 7996
- Grad Elective
- Grad Elective
- SOCI 7914

## Department of Social Work

The main goal of the baccalaureate social work program is to prepare students for entry level generalist practice. A secondary goal is to provide a strong foundation for students who wish to pursue social work education at the graduate level. Social service and life experiences may not be substituted for any social work course. The social work program is accredited by the Council on Social Work Education.

### Major

### Social Work, (B.A.)

The B.A. program in Social Work is designed to equip students with the knowledge and skills necessary for entrance into the profession of social work as beginning level generalist practitioners. Program objectives for a B.A. in Social Work are: a) apply critical thinking skills within the context of professional social work practice; (b) understand the value base of the profession and its ethical standards and principles, and practice accordingly; (c) practice without discrimination to needs of diverse clientele; (d) apply strategies of advocacy and social change that advance social and economic justice.

### Admission:

Admission to the university will allow students to choose "Pre-Social Work" as their major. Progression to the major of "Social Work" will occur only after the student successfully completes the the following course with a minimum grade of "C":

- SWRK 2010 - Introduction to Social Work
- SWRK 2011 - Writing for Social Work
- SWRK 2911 - Soc Response to Human Need

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

Students majoring in Social Work must take SOCI 3422 to fulfill part of the University General Education History requirement, BIOL 1010/BIOL 1011, BIOL 1020/BIOL 1021 for natural science, and ANTH 1200 for Social/Behavioral Sciences.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### Note:

Successful student progression requires each student to earn a minimum grade of "C" in all required courses for the pre-social work and the social work majors. Students repeating two required classroom courses for the major or field instruction will have an academic review by department faculty in the term following the second course repetition. Students should have a minimum of 30 hours completed before entering the introductory social work courses including:

- ENGL 1020 - English Comp/Analysis
- ANTH 1200 - Cultural Anthropology

Two courses from:

- SOCI 1010 - Introduction to Sociology
- PSYC 1030 - General Psychology
- POLS 1030 - American Government
- ECON 2020 - Intro to Microeconomics

## The Major (39 hours in addition to University General Education Program requirements)

Completion of

- SWRK 2010 - Introduction to Social Work
  - SWRK 2011 - Writing for Social Work
  - SWRK 2911 - Soc Response to Human Need
  - SWRK 3902 - Human Behavior/Soc Envrnmnt
  - SWRK 3903 - Social Work Practice I
  - SWRK 3904 - Social Work Practice II
  - SWRK 3906 - Social Work Practice III
  - SWRK 3920 - Soc Welfare Policy/Programs
  - SWRK 3930 - Intro Soc Work Research
  - SWRK 4830 - Field Instruction Soc Work I
  - SWRK 4831 - Field Instruction Soc Work II
  - SWRK 4840 - Integrative Field Seminar I
  - SWRK 4841 - Integrative Field Seminar II
  - BIOL 1010 - Biology of Cells
  - BIOL 1011 - Biology of Cells Lab
  - BIOL 1020 - Biology of Organisms
  - BIOL 1021 - Biology of Organisms Lab
  - ANTH 1200 - Cultural Anthropology (included in the University General Education Program requirements)
  
  - PHIL 1611 - Elementary Logic
- and
- SOCI 3311 - Social Statistics

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year Social Work Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3-4) \*
- ANTH 1200 - Cultural Anthropology
  - Foreign Language/B.A. (3)
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
- PHIL 1611 - Elementary Logic
  - Humanities (3) \*
  - Foreign Language/B.A. (3)
  - Social/Behavioral Sciences (3) \*

Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- SWRK 2010 - Introduction to Social Work
- SWRK 2011 - Writing for Social Work
- SWRK 2911 - Soc Response to Human Need
- BIOL 1010 - Biology of Cells
- BIOL 1011 - Biology of Cells Lab
  - History (3) \*
  - Fine Arts (3) \*
- SWRK 3920 - Soc Welfare Policy/Programs
- BIOL 1020 - Biology of Organisms
- BIOL 1021 - Biology of Organisms Lab
- SWRK 3902 - Human Behavior/Soc Envrnmnt

## Semester Totals 32 hrs

### Junior Year

- SWRK 3903 - Social Work Practice I
- SWRK 3930 - Intro Soc Work Research
  - Social Science\* (3)
- SOCI 3311 - Social Statistics
- SOCI 3422 - Racial/Ethnic Minorities
  - Elective (3)
- SWRK 3904 - Social Work Practice II
- COMM 2381 - Oral Communication
- SWRK 3906 - Social Work Practice III
  - UD Elective (3)

## Semester Totals 31 hrs

### Senior Year

- SWRK 4830 - Field Instruction Soc Work I
- SWRK 4840 - Integrative Field Seminar I
  - Elective (3)
  - Elective (4)
- SWRK 4841 - Integrative Field Seminar II
  - UD elective (3)
- SWRK 4831 - Field Instruction Soc Work II
  - Elective (3)
  - Elective (3)

## Semester Totals 27 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

For the General Education Social/Behavioral Science and Additional Social Science - Complete 2 of the following: SOCI 1010, POLS 1030, POLS 1030, and ECON 2020.

## Minor

### Social Work Minor

#### Requirements

Completion of 21 semester hours in sociology and social work courses including

- SOCI 1010 - Introduction to Sociology
- SWRK 2010 - Introduction to Social Work
- SWRK 2011 - Writing for Social Work
- SWRK 2911 - Soc Response to Human Need
  - 9 additional upper division hours in social work courses.

## Department of World Languages and Literatures

Program objectives for a B.A. in World Languages and Literatures are: (a) have functional control of the appropriate fundamental language skills for the principal language of the major. For modern languages, these include speaking, listening, reading, and writing. For ancient languages, these include reading, reciting in a standard scholarly reconstructed pronunciation, and the ability to analyze grammatical structures in detail; (b) be able to describe and critically evaluate the cultural assumptions and points of view of the targeted culture(s) of their principal language of concentration; (c) Be able to describe and appreciate the interplay of literature, language, history, and culture in the principal language of concentration.

## Major

### World Languages and Literatures, (B.A.)

Program objectives for a B.A. in World Languages and Literatures are: (a) have functional control of the appropriate fundamental language skills for the principal language of the major. For modern languages, these include speaking, listening, reading, and writing. For ancient languages, these include reading, reciting in a standard scholarly reconstructed pronunciation, and the ability to analyze grammatical structures in detail; (b) be able to describe and critically evaluate the cultural assumptions and points of view of the targeted culture(s) of their principal language of concentration; (c) Be able to describe and appreciate the interplay of literature, language, history, and culture in the principal language of concentration.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements and are listed above.

## The Major (24-33 hours)

Successful completion of one of the following concentrations:

1. A single-language concentration in French, Chinese, German, Italian, Japanese, or \*Spanish: 24 upper division semester hours.
2. A two-language concentration chosen from Chinese, French, German, Italian, Japanese, Portuguese, Russian, and Spanish: 27 upper division semester hours with a minimum of 9 semester hours in each language.
3. A three-language concentration chosen from Chinese, French, German, Italian, Japanese, Portuguese, Russian, and Spanish: All three language concentrations require prior consultation with the approval of the department chair. Plans will normally include at least 33 upper division semester hours to include at least 12 semester hours in each of two languages plus approved course work in a third language.

\* Students with a single-language concentration in Spanish must take

- SPAN 4410 - Spanish Lit and Civilization
- SPAN 4510 - Spanish Amer Lit/Civilization
- SPAN 4563 - Hispanic Literature Genres

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year French Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3-4) \*
  - Social/Behavioral Science (3) \*
  - Elective (3)
- FREN 2010 - Intermediate French I
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Social/Behavioral Science (3) \*
  - Humanities (3) \*
- FREN 2020 - Intermediate French II

## Semester Totals 30-31 hrs

### Sophomore Year

- COMM 2381 - Oral Communication
  - Elective (3)
  - Natural Science (4) \*
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- FREN 3301 - Conversation and Composition
  - Elective (3)
  - Elective (3)
  - Natural Science (4) \*
- FREN 3302 - Conversation and Composition
  - UD FREN (3)

## Semester Totals 32 hrs

### Junior Year

- History (3) \*
- Fine Arts (3) \*
- Elective (3)
- UD FREN (3)
- UD Elective (3)
- History (3) \*
- Elective (3)
- UD FREN (3)
- UD Elective (3)
- Elective (3)

## Semester Totals 30 hrs

### Senior Year

- UD FREN (3)
- UD FREN (3)
- Elective (3)
- UD elective (3)
- UD elective (3)
- UD FREN (3)
- UD elective (3)
- UD elective (3)

- Elective (3)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Typical 4-Year Spanish Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3-4) \*
  - Social/Behavioral Science (3) \*
- SPAN 2010 - Intermediate Spanish I
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Social/Behavioral Science (3) \*
- SPAN 2020 - Intermediate Spanish II
  - Humanities (3)

Semester Totals 30-31 hrs

### Sophomore Year

- COMM 2381 - Oral Communication
    - Fine Arts (3) \*
    - Natural Science (4) \*
    - UD SPAN (3)
  - ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
    - UD elective (3)
    - Elective (3)
    - Natural Science (4) \*



- UD SPAN (3)
- UD SPAN (3)

Semester Totals 32 hrs

## Junior Year

- History (3) \*
- UD SPAN (3)
- Elective (3)
- Elective (3)
- UD elective (3)
- History (3) \*
- Elective (3)
- Elective (3)
- UD Elective (3)
- SPAN 4563 - Hispanic Literature Genres

Semester Totals 30 hrs

## Senior Year

- Elective (3)
- SPAN 4410 - Spanish Lit and Civilization
  - UD SPAN (3)
  - UD elective (3)
  - Elective (3)
- SPAN 4510 - Spanish Amer Lit/Civilization
  - UD elective (3)
  - UD elective (3)
  - Elective (4)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### World Languages and Literatures Minor

Completion of 18 semester hours consisting of (1) courses numbered 1020, 2010, and 2020 (or their equivalents) in the foreign language in which upper division hours are to be taken, and (2) 9 upper division semester hours in one of the following languages: Chinese, French, German, Italian, Japanese, Russian, or Spanish. Students placing directly into 2010 or higher on the Foreign Language placement exam may complete the requirements for the minor by either: (1) applying for retroactive credit for 1020 and any subsequent courses out of which they have placed; or (2) completing additional upper-division hours to bring the total number of hours for the minor to 18.

## Fogelman College of Business and Economics

### The Fogelman College of Business and Economics

Rajiv Grover, Ph.D., Dean  
 Room 432, Fogelman Business and Economics Building  
 (901) 678-2432  
<http://www.memphis.edu/fcbe/>

Associate Dean for Academic Programs  
 FAB Room 426  
 (901) 678-5402

## Purpose

The function of The Fogelman College of Business and Economics is to provide the basic education at the undergraduate level necessary to prepare a person to enter the profession of business. A significant characteristic of the college is that it provides for concentration in the departments of economics and business, not as a substitute for, but as a part of, a broad liberal education. The undergraduate and graduate programs of the college are fully accredited by the AACSB International (Association to Advance Collegiate Schools of Business International).

## Mission and Objectives of the Undergraduate Program

The Fogelman College of Business and Economics strives to provide a learning environment that fosters scholarship, intellectual curiosity, and collegiality. The mission of the undergraduate degree program is to prepare students for meaningful and responsible participation in a broad range of career opportunities in business, government, and institutional settings, or for advanced professional or graduate education. The College is dedicated to helping students acquire the competencies and attitudes for a lifetime of learning as they face the challenges of the future.

The objectives of the undergraduate curriculum at the Fogelman College of Business and Economics are to help students acquire the following knowledge and skills:

## Knowledge

Knowledge of cultural, global, and ethical environment within which businesses operate; an appreciation of the impact of business decisions on society, the enterprise, and individuals; knowledge of mathematics and quantitative methods necessary to effectively analyze business decisions; an understanding of the role and impact of diversity in organizations; and understanding of the management of information and information technology; foundation knowledge in each of the functional departments of business and in-depth

understanding of one or more specializations; an awareness of the relationship between academic theory and practice to promote informed decisions under conditions of uncertainty.

## Skills

Ability to integrate knowledge from various disciplines to define business problems and research solutions; critical thinking and decision-making skills essential to solving business problems; communication skills to effectively participate in the business environment and larger society; proficiency in relevant computer applications; ability to contribute within a team environment to enhance organizational effectiveness; ability to analyze ethical situations within the context of the global business environment.

## Organization of the College

The Fogelman College of Business and Economics comprises six academic units: School of Accountancy; Department of Economics; Department of Finance, Insurance, and Real Estate; Department of Management; Department of Marketing and Supply Chain Management; and the Department of Business Information and Technology.

These academic units offer a variety of majors and minors, the detailed requirements for which are listed later in this section. The interdisciplinary International Business Program centered in this college offers an undergraduate major in International Business; requirements are listed in the section pertaining to academic department requirements. In addition there are nine research units: Sparks Bureau of Business and Economic Research, Center for Manpower Studies, Center of Innovative Technology Management, Enterprise Simulation and Optimization Lab, Robert Wang Center for International Business, The Methodist LeBonheur Center for Healthcare Economics, Systems Testing Excellence Program (STEP), and the Center for Managing Emerging Technologies.

## General Requirements

The college curriculum is organized into a lower division and an upper division:

**The Lower Division (LD)** comprises the freshman and sophomore years, the first four semesters of university work. Courses offered in the lower division are numbered from 1000 through 2999, and the student must register consistently for all lower division requirements until they are completed.

## Admission To Degree Program:

To continue into the upper division business courses, all students seeking a degree in the Fogelman College of Business and Economics must (1) complete the following courses with a minimum grade of "C" and a minimum 2.25 GPA. (2.5 GPA. for Accounting majors): ECON 2010, ECON 2020, SCMS 2710 or MATH 1530, ACCT 2010, ACCT 2020, MIS 2749; (2) have accumulated 45 hours of course work including the required 9 hours of English; COMM 2381; MATH 1421, MATH 1830 or MATH 1910 (with a minimum grade of "C"); ECON 2010, ECON 2020; ACCT 2010, ACCT 2020; SCMS 2710 or MATH 1530; MIS 2749.

**The Upper Division (UD)** comprises all junior and senior years of undergraduate work; courses offered in the upper division are numbered 3000 through 4999. Students must have earned a minimum of 45 credit hours and have met specific course prerequisites with a minimum grade of "C" to be eligible for all 3000- and 4000-level courses. In addition to these requirements, students seeking a degree in the Fogelman College of Business and Economics must have (1) completed all required lower division business courses with a minimum grade of "C" in each; (2) minimum of 2.25 GPA (2.5 for ACCT majors) in all required lower division business courses and (3) 45 hours of course work including MATH 1421, MATH 1830 or MATH 1910 (with a minimum grade of "C"), COMM 2381 and 9 hours of English (See [B.B.A. Degree Requirements-General Requirements](#)).

## Retention:

To graduate from the Fogelman College of Business and Economics, all students must have a minimum grade of a "C" and a 2.25 G.P.A. in the following courses: ACCT 3130, FIR 3410, MGMT 3110, MGMT 3510, MGMT 4710, MKTG 3010, MIS 3210, SCMS 3510, SCMS 3711 and the International Business course. All major courses require a minimum grade of "C" and a minimum 2.25 GPA.

## B.B.A Requirements

1. To qualify for the Bachelor of Business Administration (B.B.A.) degree, the student must complete a minimum of 120 semester hours with a minimum overall grade point average of 2.00 and meet additional grade point average requirements described below.
2. A minimum grade of "C" is necessary in these lower division courses: MATH 1830, MATH 1910, or MATH 1421; SCMS 2710 or MATH 1530; ECON 2010, ECON 2020; ACCT 2010, ACCT 2020; MIS 2749. A minimum grade point average of 2.25 (ACCT majors - 2.5) is necessary in these lower division business courses: ACCT 2010, ACCT 2020, ECON 2010, ECON 2020, MIS 2749, and either SCMS 2710 or MATH 1530. A minimum grade of "C" and a minimum grade point average of a 2.25 is necessary for these upper division courses: ACCT 3130, FIR 3410, MGMT 3110, MGMT 3510, MGMT 4710, SCMS 3510, SCMS 3711, MIS 3210, MKTG 3010, and the International Business course.
3. B.B.A. students may apply no more than two semester hours of physical activity courses to the minimum degree requirements of 120 semester hours.
4. B.B.A. students may apply no more than 6 hours of internship toward their major requirements and no more than 6 hours of independent study toward their major requirements for a maximum of 9 hours combined internship and independent study in the major. Internship and independent study courses must be approved by the department chair.
5. All courses used to satisfy specific degree requirements of this college must be taken on a "letter grade" OR "credit by examination" basis. A minimum grade of "C" (or a "S" grade for satisfactory) must be earned in all courses that are used in the the lower division business core, the upper division business core, in all business majors and in all business minors. Hours earned on a "credit/no credit" basis are accepted only in courses that are not required for the student's degree. Courses taken on an "audit" basis cannot be used to satisfy college requirements.
6. A surcharge of \$35 per credit hour for 3000 and 4000 level courses and for 6000-9000 level courses has been approved by the Tennessee Board of Regents. The purpose of the surcharge on these business courses is to guarantee the continuous improvement of the college and compliance with the standards of the Association to Advance Collegiate Schools of Business International (AACSB International).
7. In The Fogelman College of Business and Economics, students are only allowed to attempt a business course three times. If the student is unsuccessful on the third attempt, he or she must select a major outside of Fogelman College.
8. Contact the department of your major for information about experiential learning credit.

NOTE: The Fogelman College of Business and Economics accepts a maximum of two semester hours in physical activity courses toward the fulfillment of its degree requirements.

## Academic Advising

Every student entering The Fogelman College of Business and Economics will receive advice in the college's Undergraduate Student Services Office. The advisor will assist the student in the selection of appropriate courses and provide the opportunity for meaningful discussion regarding career goals, past academic experience and future academic growth and progress as it relates to the student's development. This assistance, however, does not in any way relieve the student of the primary responsibility of studying the Catalog and fulfilling all the requirements for the degree

## Residence Requirements

Residence requirements for a degree in business administration are as follows: (1) the senior year must be completed at the University of Memphis, (2) a minimum of 33 hours of upper division business courses must be taken at the University of Memphis, and (3) 12 of the 33 upper division business administration hours must be in the major field.

A student transferring credits from a two-year (lower division) college must complete a minimum of 60 semester hours in an accredited senior institution.

Students with transfer credit are required to maintain a 2.0 GPA on all courses taken at the University of Memphis

## Enrollment Priority

Neither admission by the University of Memphis and The Fogelman College of Business and Economics nor completion of the minimum requirements guarantees admission to any specific course offered by the college. Limited resources may require that enrollment in business classes be based on ranking by Grade Point Average with exceptions being made for graduating seniors.

## I. The Major

Each student, with the assistance of an advisor in the college, not later than the beginning of the junior year, will select a major and, if available, an area of concentration within the major. The specific courses required by each department for the satisfaction of its major are listed in the section following. A major requires a minimum of 21 hours beyond upper division core requirements, and courses used to satisfy one major may not be used toward a second major. A minimum grade of "C" must be earned for each required course for the major.

## II. Courses Not Applicable Toward B.B.A. Degree

Transitional Academic Studies (DSP) courses may not be used to fulfill the minimum number of hours required for the B.B.A. degree.

## III. The Minor

A student whose major is within The Fogelman College of Business and Economics is not required to have a minor; however, such an option is available. A minimum grade of "C" must be earned for each required course in the lower division and upper division business administration core curriculum and in each course required for the minor.

A student whose major is within one of the other colleges of the university may take a minor in one of the academic departments. (See [Residence Requirements for The Fogelman College of Business and Economics](#).)

## Minor

To earn a minor in this college, a transfer student majoring in one of the other colleges of the university or in this college must earn at the University of Memphis a minimum of 6 upper division business administration hours of the total number of hours required for that minor.

See University Residence Requirements in the Graduation from the University section.

## Transfer Credit

The official evaluation and acceptance of transfer credit is the responsibility of the Office of Admissions. The Undergraduate Student Services Office of The Fogelman College of Business and Economics, however, will be happy to answer inquiries regarding the applicability of transfer course work for the completion of the B.B.A. degree.

If a student transfers credit in required business courses that are classified as upper division in this college, but were taken as lower division credit or taken at a two-year (lower division) institution, these courses must be repeated or appealed to the chair of the department or the director of the school in which the course is taught. If the appeal is rejected, the student must repeat the course to earn the upper division hours.

## Apply to Graduate

Students must apply to graduate with the University of Memphis by going to the portal (myMemphis), selecting the My Degree tab, and navigating to the "Commencement and graduation" channel.

After the students have applied to graduate, they will receive an email before the start of their graduating semester. The email will be sent only to their University of Memphis email address from the Graduation Analyst. All deadlines are strictly enforced.

# Honors Programs

## Admission

Lower Division: Incoming freshmen whose minimum score of 27 on the ACT or its equivalent on other tests are invited to participate and are eligible to enroll in the designated honors sections of this college's lower division courses.

Transfer or students presently enrolled in the University of Memphis are eligible to enroll in the designated honors sections of this college's lower division courses if they have a minimum 3.00 grade point average or the recommendation of a faculty member.

Upper Division: Students must have a minimum 3.25 grade point average in business courses and a 3.00 overall grade point average.

Students will need to complete an application form available from the College Honors Advisor to apply for the Business and Economics Honors Program.

## Retention

The participating honors student must maintain a minimum 3.00 GPA in honors courses, have a minimum 3.25 GPA in all business courses, and a minimum overall GPA of 3.00.

## Requirements

Qualification for "Honors in Business and Economics," requires an Honors Thesis or Senior Honors Experience as determined by the Director of the College Honors Program. A student must also complete successfully (with a minimum grade of B) a minimum of 18 semester hours from the following:

1. No more than 6 hours from Honors Sections in appropriate 2000 level courses\*.
2. At least 12 hours from Honors Sections in appropriate 3000 or 4000 level courses\*.

In some circumstances, additional contract work and enrollment in a non-honors section of a required upper division course may be accepted as upper division honors credit. A maximum of 9 hours of upper division honors credit may be contracted.

\*The appropriate courses will be decided by the Director of the College Honors Program.

Honors Thesis

A Grade of B or better must be earned in this course in order for the course to satisfy a requirement of graduating **"with honors in Business."**

## Certificate Of Achievement

Students who complete a minimum of 12 hours in Honors course work with a minimum of 3.25 grade point average and a minimum of "B" (3.0) in each of the Honors courses will receive a Certificate of Achievement.

## Designation Of "With Honors In Business"

Students who complete 18 hours (meeting the restrictions listed) with an acceptable Honors Thesis or Senior Honors Experience and a minimum 3.25 grade point average in all courses taken in The Fogelman College of Business and Economics, and in all Honors courses taken in this college, with a minimum overall grade point average of 3.00 will have earned the designation of "With Honors in Business" which will appear on the transcript and diploma.

Individual program requirements described in *the University of Memphis Undergraduate Catalog* are subject to change. Please consult the college level advisor for changes that may occur before publication of the next issue of this *Catalog*.

## Minor

### Pre-Professional Business Administration Minor

#### Requirements

The Fogelman College of Business and Economics offers a pre-professional minor (30 hours) for students whose major is in another college of the University. Requirements are as follows:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ACCT 3130 - Legal/Social/Political Environ
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
  
- SCMS 2710 - Business Analytics -Statistics
  
- or
  
- MATH 1530 - Prob/Statistics/Non Calculus
  
- MIS 2749 - Foundation/Information Systems
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MKTG 3010 - Principles of Marketing

#### Note

Accounting, economics, and a minimum of 45 credit hours are prerequisites for 3000 level courses.

## Department of Accounting

The mission of the bachelor's degree program in Accountancy is to serve the needs of students, the accounting profession, and the general business community through teaching, research and service. Within this mission, the department offers students a balanced integrative approach to business education. In this interdisciplinary view, students must have a broad University General Education Program grounded in nonbusiness courses, a strong supporting business acumen, and an interrelated view of accounting to the other departments of business. Specifically, accounting classes synthesize accounting with the financing, investing, and operating functions so that students can develop their critical thinking skills and apply them to making decisions on accounting and other business problems.

Overall, the B.B.A. with a major in Accounting is built on the foundation of technical, interpersonal, and communication skills. This focus allows enhancement of careers and leadership to businesses and government units that would strengthen the economic development of communities, state, and nation. Program objectives for the B.B.A. in Accounting are found [here](#).

## Major

### Accounting, (B.B.A.)

#### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) with a minimum grade of "C", ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) are specified for the B.B.A. degree.

#### College and Degree (B.B.A.) Requirements

##### Lower Division Business Core Curriculum (21 hours)

No grade below "C" and 2.5 GPA in the following Lower Division Business Core

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

##### Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing



- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

24 upper division semester hours in Accounting courses as follows:

- ACCT 3110 - Intermediate Accounting I
- ACCT 3120 - Intermediate Accounting II
- ACCT 3310 - Cost Accounting
- ACCT 3510 - Federal Income Tax I
- ACCT 4020 - Accounting Systems
- ACCT 4130 - Intermediate Accounting III
- ACCT 4240 - Audit/Assurance Services
  - 3 hours of accounting elective

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Accounting Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities/Fine Arts (3) \*
  - Humanities/Fine Arts (3) \*
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - History (3) \*
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems
- MATH 1830 - Elementary Calculus

or

- MATH 1421 - Honors Calculus I

or

- MATH 1910 - Calculus I

## Semester Totals 28-30 hrs

## Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
  - ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - COMM 2381 - Oral Communication
    - Natural Science (4) \*
  - SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
  - ACCT 2020 - Fundamentals of Acct II
    - Natural Science (4) \*
    - History (3) \*
  - ECON 2010 - Intro to Macroeconomics
    - Elective (3)

## Semester Totals 32 hrs

## Junior Year

- ACCT 3130 - Legal/Social/Political Environ
- ACCT 3110 - Intermediate Accounting I
- ACCT 3310 - Cost Accounting
- SCMS 3711 - Business Analytics - Tools
- MIS 3210 - Critical Thinking Using Analytics
- ACCT 3120 - Intermediate Accounting II
- ACCT 3510 - Federal Income Tax I
- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt
- ACCT 4020 - Accounting Systems

Semester Totals 30 hrs

## Senior Year

- ACCT 4130 - Intermediate Accounting III  
Elective (3)
- FIR 3410 - Financial Management
  - ACCT elective (3)
- MKTG 3010 - Principles of Marketing
  - INTL Bus Elective (3)
- ACCT 4240 - Audit/Assurance Services
  - Elective (3)
- MGMT 4710 - Strategic Management
- SCMS 3510 - Operations Management

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### Accounting Minor

#### Requirements

For students whose major is in another college of the University (18 hours):

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ACCT 3110 - Intermediate Accounting I
- ACCT 3120 - Intermediate Accounting II
- ACCT 3310 - Cost Accounting
- ACCT 4130 - Intermediate Accounting III

For students whose major is in a department in The Fogelman College of Business and Economics (12 hours):

- ACCT 3110 - Intermediate Accounting I
- ACCT 3120 - Intermediate Accounting II
- ACCT 3310 - Cost Accounting
- ACCT 4130 - Intermediate Accounting III

## Department of Business Information and Technology

Managers and non-managers alike depend upon information for decision making. To be useful that information must be understandable, timely, thorough, focused on the decision at hand, and in the hands of the appropriate individual. Accomplishing all this is the challenge of Business Information and Technology. It requires a knowledge of individual and/or group behavior, the process of perception (how people select and interpret information), the decision tools they need, computers and communication technology, systems design, managing data, and the impact individual decisions have on the organization.

Program objectives for a B.B.A. in Business Information and Technology are found [here](#).

Business Information and Technology includes several specialized areas including Telecommunications, Information Systems, Management and Planning, Statistics, System Development, Data Base Management, and general applications of computers to business.

Many Business Information and Technology courses require substantial hands-on experience in computer labs. Therefore, the department does not allow credit by examination for upper division courses.

### Major

## Business Information and Technology, (B.B.A.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## C. The Major (27 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

Completion of a minimum of 27 hours, including

- MIS 2845 - Applied Program Development I
- MIS 3770 - System Analysis Methods
- MIS 3775 - Database/Information Management
- MIS 3790 - Enterprise Architecture
- MIS 3885 - Strategic IT Project Management
- MIS 4800 - Strategy/Mgmt/Acquisition

The additional nine hours will be satisfied by three of the following:

- MIS 4160 - Mobile Application Development
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MIS 4672 - Project Management Tools and Leadership
- MIS 4681 - Fundamental/Software Testing
- MIS 4682 - Advanced Software Testing
- MIS 4760 - Web Site Development
- MIS 4845 - Application Program Development III
- MIS 4911 - Internship in Management Information Systems
  - COMP 4262

## D. Electives (10 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Business Information and Technology

### Freshman Year

- ENGL 1010 - English Composition
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
- MIS 2749 - Foundation/Information Systems
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - History (3) \*
  - Humanities/Fine Arts (3) \*
- ECON 2020 - Intro to Microeconomics
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1421 - Honors Calculus I
  
- or
  
- MATH 1910 - Calculus I

Semester Totals 30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
  - Elective (3)
- ACCT 2020 - Fundamentals of Acct II
- MIS 2845 - Applied Program Development I
  - History (3) \*
  - Natural Science (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus

Semester Totals 32 hrs

## Junior Year

- MIS 3210 - Critical Thinking Using Analytics
- MIS 3790 - Enterprise Architecture
- SCMS 3711 - Business Analytics - Tools
- MKTG 3010 - Principles of Marketing
- MGMT 3110 - Organization and Mgmt
  - Elective (1-3)
- MIS 3770 - System Analysis Methods
- FIR 3410 - Financial Management
- ACCT 3130 - Legal/Social/Political Environ
- MIS 3885 - Strategic IT Project Management

Semester Totals 28-30 hrs

## Senior Year

- MIS major elective (3)
- MIS major elective (3)
- MIS 3775 - Database/Information Management
- MGMT 3510 - Business Communications
  - Elective (3)
  - MIS major elective (3)
- MIS 4800 - Strategy/Mgmt/Acquisition
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
- SCMS 3510 - Operations Management

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Minor**

### **Business Information and Technology Minor**

#### Requirements

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (12 hours):

- MIS 3770 - System Analysis Methods
- MIS 3775 - Database/Information Management
- MIS 3790 - Enterprise Architecture
- MIS 4800 - Strategy/Mgmt/Acquisition

For Students Whose Major Is Within Another College of the University (18 hours):

- MIS 2749 - Foundation/Information Systems
- MIS 3210 - Critical Thinking Using Analytics
- MIS 3770 - System Analysis Methods
- MIS 3775 - Database/Information Management
- MIS 3790 - Enterprise Architecture
- MIS 4800 - Strategy/Mgmt/Acquisition

### **Project Management Minor**

#### Requirements



## For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (12 hours):

- MIS 3885 - Strategic IT Project Management
- MIS 4672 - Project Management Tools and Leadership

## 2 Courses Chosen by the Student From

- MIS 3770 - System Analysis Methods
- MIS 3775 - Database/Information Management
- MIS 4160 - Mobile Application Development
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MIS 4760 - Web Site Development
- MIS 4845 - Application Program Development III
- MGMT 4420 - Organizational Behavior in Business
- MGMT 4481 - Teamwork/Group Dynamics in Organizations
- MKTG 4080 - Marketing Research
- SCMS 3650 - Supply Management
- SCMS 4511 - Supply Chain Strategy

## For Students Whose Major Is Business Information and Technology (12 hours):

- MIS 4672 - Project Management Tools and Leadership

## 3 Courses Chosen by the Student From

- MIS 4160 - Mobile Application Development
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MIS 4760 - Web Site Development
- MIS 4845 - Application Program Development III
- MGMT 4420 - Organizational Behavior in Business
- MGMT 4481 - Teamwork/Group Dynamics in Organizations
- MKTG 4080 - Marketing Research
- SCMS 3650 - Supply Management
- SCMS 4511 - Supply Chain Strategy

## For Students Whose Major Is Within Another College of the University (18 hours):

- MIS 2749 - Foundation/Information Systems
- MIS 3210 - Critical Thinking Using Analytics
- MIS 3770 - System Analysis Methods
- MIS 3775 - Database/Information Management
- MIS 3885 - Strategic IT Project Management
- MIS 4672 - Project Management Tools and Leadership

## Systems Testing Minor

### Requirements

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (12 hours):

- MIS 2845 - Applied Program Development I
- MIS 3770 - System Analysis Methods
- MIS 4681 - Fundamental/Software Testing
- MIS 4682 - Advanced Software Testing

For Students Whose Major Is Within Another College of the University (18 Hours):

- MIS 2749 - Foundation/Information Systems
- MIS 2845 - Applied Program Development I
- MIS 3210 - Critical Thinking Using Analytics
- MIS 3770 - System Analysis Methods
- MIS 4681 - Fundamental/Software Testing
- MIS 4682 - Advanced Software Testing

## Department of Economics

The Business Economics program has two major objectives. The first is to provide majors and minors with a solid foundation in economics and the critical thinking skills needed to make effective decisions.

The second objective is to promote and develop economic literacy throughout the Fogelman College of Business and Economics, the University of Memphis and the local and regional community.

Through the pursuit of these two major objectives, the Department of Economics and its faculty and staff dedicate themselves to the economic education of our students and our community. The learning objectives for the B.B.A. degree in Business Economics are found [here](#).

### Major

#### **Business Economics - Financial Economics Concentration, (B.B.A.)**

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) with a minimum grade of "C", ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) are specified for the B.B.A. degree.

## Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

A minimum of 24 upper-division semester hours as follows:

For students choosing the Business Economics major with a concentration in Financial Economics:

- ECON 3310 - Microeconomic Theory
- ECON 3320 - Macroeconomic Theory
  - three upper-division economics courses (9 hours)
  - three upper-division FIR courses (9 hours) selected with the approval of the department advisor.

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Honors Program

To be considered for the Honors Degree Program in Economics, the student must:

Maintain a minimum grade of "B" in honors sections of both ECON 2010 - Intro to Macroeconomics and ECON 2020 - Intro to Microeconomics; and obtain the recommendation of a faculty member in the Department of Economics to the Department Honors Committee.

Once accepted to the Honors Degree Program in Economics, the student must:

Maintain an average GPA of 3.25 in all economics courses to continue in the program; Have a minimum GPA of 3.5 in all economics courses at graduation; Enroll in ECON 3310 - Microeconomic Theory and ECON 3320 - Macroeconomic Theory with an honors contract. Those contracts will be discussed with and approved by the faculty member teaching each course; and write an honors thesis. This begins with finding a faculty advisor for the thesis project, discussing a thesis topic, then writing the thesis. The honors thesis typically takes one semester to complete, although work on it can begin early. When working on the honors thesis, the student will enroll in a section of ECON 4996 - Honors Thesis in Economics for up to one semester. The completed thesis will be graded by the faculty advisor.

Upon successfully completing all these requirements, the student will be recognized at the commencement ceremony by having their degree conferred "With Honors in Economics." Moreover the student's diploma and the record at the University of Memphis will reflect this accomplishment.

## Typical 4 Year Sequence Economics Major: Financial Economics Concentration

## Freshman Year

- ENGL 1010 - English Composition
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems
- MATH 1830 - Elementary Calculus

Semester Totals 28-30 hrs

## Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - Natural Science with lab (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science with lab (4) \*
  - History (3) \*
  - Humanities/Fine Arts (3) \*
  - Elective (3)

Semester Totals 32 hrs

## Junior Year

- ECON 3310 - Microeconomic Theory
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
- MIS 3210 - Critical Thinking Using Analytics
- FIR 3410 - Financial Management
- ECON 3320 - Macroeconomic Theory
  - ECON elective (3)

- History (3)
- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt

Semester Totals 30 hrs

## Senior Year

- ECON elective (3)
- Finance elective (3)
- Finance elective (3)
- SCMS 3510 - Operations Management
- MKTG 3010 - Principles of Marketing
  - ECON elective (3)
  - Finance elective (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

## Business Economics, (B.B.A.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) with a minimum grade of "C", ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) are specified for the B.B.A. degree.

### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

A minimum of 24 upper-division semester hours as follows:

For students choosing the Business Economics major with no concentration:

- ECON 3310 - Microeconomic Theory
- ECON 3320 - Macroeconomic Theory
  - six upper-division economics courses (18 hours) selected with the approval of the department advisor.

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Honors Program

To be considered for the Honors Degree Program in Economics, the student must:

Maintain a minimum grade of "B" in honors sections of both ECON 2010 - Intro to Macroeconomics and ECON 2020 - Intro to Microeconomics; and obtain the recommendation of a faculty member in the Department of Economics to the Department Honors Committee.

Once accepted to the Honors Degree Program in Economics, the student must:

Maintain an average GPA of 3.25 in all economics courses to continue in the program; Have a minimum GPA of 3.5 in all economics courses at graduation; Enroll in ECON 3310 - Microeconomic Theory and ECON 3320 - Macroeconomic Theory with an honors contract. Those contracts will be discussed with and approved by the faculty member teaching each course; and write an honors thesis. This begins with finding a faculty advisor for the thesis project, discussing a thesis topic, then writing the thesis. The honors thesis typically takes one semester to complete, although work on it can begin early. When working on the honors thesis, the student will enroll in a section of ECON 4996 - Honors Thesis in Economics for up to one semester. The completed thesis will be graded by the faculty advisor.

Upon successfully completing all these requirements, the student will be recognized at the commencement ceremony by having their degree conferred "With Honors in Economics." Moreover the student's diploma and the record at the University of Memphis will reflect this accomplishment.

## Typical 4-Year Business Economics Sequence

### Freshman Year

- ENGL 1010 - English Composition
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1421 - Honors Calculus I
  
- or
  
- MATH 1910 - Calculus I

Semester Totals 28-30 hrs

### Sophomore Year



- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
  - History (3) \*
  - Humanities/Fine Arts (3) \*
  - Elective (3)

**Semester Totals 32 hrs**

## Junior Year

- ECON 3310 - Microeconomic Theory
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
  - ECON elective (3)
- MIS 3210 - Critical Thinking Using Analytics
- ECON 3320 - Macroeconomic Theory
  - ECON elective (3)
- FIR 3410 - Financial Management
- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt

**Semester Totals 30 hrs**

## Senior Year

- ECON elective (3)
- ECON elective (3)
- Elective (3)
- SCMS 3510 - Operations Management
- MKTG 3010 - Principles of Marketing
  - ECON elective (3)
  - ECON elective (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - History (3) \*

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Economics, (B.A.)**

Program objectives can be found in the Business Economics major in the Fogelman College of Business and Economics section.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

### **College and Degree (B.A.) Requirements (6-9 hours)**

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### **The Major (30 hours)**

Completion of 30 semester hours, including

- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- ECON 3310 - Microeconomic Theory
- ECON 3320 - Macroeconomic Theory
  - 18 additional upper division semester hours in economics courses as approved by the department advisor.

### **Electives**

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

To be considered eligible for the Honors Degree Program in Economics, the student must:

1. Maintain a minimum grade of B in honors sections of both ECON 2010 - Intro to Macroeconomics and ECON 2020 - Intro to Microeconomics.
2. Obtain the recommendation of a faculty member in the Department of Economics to the Department Honors Committee.

Once accepted to the Honors Degree Program in Economics, the student must

1. Maintain an average GPA of 3.25 in all economics courses to continue in the program.
2. Have a minimum GPA of 3.5 in all economics courses at graduation.
3. Enroll in ECON 3310 - Microeconomic Theory and ECON 3320 - Macroeconomic Theory with an honors contract. Those contracts will be discussed with and approved by the faculty member teaching each course.
4. Write an honors thesis. This begins with finding a faculty advisor for the thesis project, discussing a thesis topic, then writing the thesis. The honors thesis typically takes one semester to complete, although work on it can begin early. When working on the honors thesis, the student will enroll in a section of ECON 4996 - Honors Thesis in Economics for up to one semester. The completed thesis will be graded by the faculty advisor.

Upon successfully completing all these requirements, the student will be recognized at the commencement ceremony by having their degree conferred "With Honors in Economics." Moreover the student's diploma and the record at the University of Memphis will reflect this accomplishment.

## Typical 4-Year Economics Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH\* (3-4)
  - Humanities/Fine Arts\* (3)
  - Elective (3)
  - Foreign Language/B.A. (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Fine Arts\* (3)
- ECON 2010 - Intro to Macroeconomics
  - Foreign Language/B.A. (3)

Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - Natural Science\* (4)
  - Elective (3)

- ECON 2020 - Intro to Microeconomics
  - History\* (3)
  - History\* (3)
  - Elective (3)
  - Natural Science\* (4)
  - Elective (3)
- COMM 2381 - Oral Communication

Semester Totals 32 hrs

## Junior Year

- UD elective (3)
- UD elective (3)
- UD elective (3)
- UD ECON elective (3)
- ECON 3310 - Microeconomic Theory
  - UD elective (3)
  - UD elective (3)
  - Elective (3)
- ECON 3320 - Macroeconomic Theory
  - UD ECON elective (3)

Semester Totals 30 hrs

## Senior Year

- Elective (3)
- UD ECON (3)
- UD ECON (3)
- UD ECON (3)
- UD ECON (3)
- UD Elective (3)
- Elective (3)
- Elective (4)
- Elective (3)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### Business Economics Minor

#### Requirements

For students whose major is in another college of the University:

18 semester hours in economics courses, including

- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
  - 12 additional upper division hours in courses as approved by the department chair.

For students whose major is in another department in The Fogelman College of Business and Economics:

Either

- ECON 3310 - Microeconomic Theory
- or
- ECON 3320 - Macroeconomic Theory

Plus

nine additional upper division hours in economics approved by the department chair.

### Economics Minor

#### Requirements

To receive a minor in Economics, a student is required to take 18 credit hours, (six courses) in economics. Six of those hours (two courses) must be ECON 2010 and ECON 2020. Of the remaining 12 hours (four courses), all of them must be upper-division courses in

economics, i.e., 3000-level or 4000-level courses. One of those courses must be either Microeconomic Theory (ECON 3310) or Macroeconomic Theory (ECON 3320). The other three courses (nine hours) are upper-division elective courses.

## Accelerated Bachelor/Masters

### Business Economics, (Accelerated B.B.A./M.A.)

#### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) with a minimum grade of "C", ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) are specified for the B.B.A. degree.

#### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

#### Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing

- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

A minimum of 24 upper-division semester hours as follows:

For students choosing the Business Economics major with no concentration:

- ECON 3310 - Microeconomic Theory
- ECON 3320 - Macroeconomic Theory
  - six upper-division economics courses (18 hours) selected with the approval of the department advisor.

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Honors Program

To be considered for the Honors Degree Program in Economics, the student must:

Maintain a minimum grade of "B" in honors sections of both ECON 2010 - Intro to Macroeconomics and ECON 2020 - Intro to Microeconomics; and obtain the recommendation of a faculty member in the Department of Economics to the Department Honors Committee.

Once accepted to the Honors Degree Program in Economics, the student must:

Maintain an average GPA of 3.25 in all economics courses to continue in the program; Have a minimum GPA of 3.5 in all economics courses at graduation; Enroll in ECON 3310 - Microeconomic Theory and ECON 3320 - Macroeconomic Theory with an honors contract. Those contracts will be discussed with and approved by the faculty member teaching each course; and write an honors thesis. This begins with finding a faculty advisor for the thesis project, discussing a thesis topic, then writing the thesis. The honors thesis typically takes one semester to complete, although work on it can begin early. When working on the honors thesis, the student will

enroll in a section of ECON 4996 - Honors Thesis in Economics for up to one semester. The completed thesis will be graded by the faculty advisor.

Upon successfully completing all these requirements, the student will be recognized at the commencement ceremony by having their degree conferred "With Honors in Economics." Moreover the student's diploma and the record at the University of Memphis will reflect this accomplishment.

## Accelerated B.B.A./M.A. Program in Economics

This program allows outstanding undergraduates to begin the coursework for the Master of Arts in Economics during their senior year. Students are encouraged to begin planning to enter the Accelerated B.B.A./M.A. program early in their undergraduate career, in consultation with their advisor in the Department of Economics.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.B.A. degree while they also begin the coursework toward their M.A.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Economics department. Each applicant will complete an interview with the graduate academic coordinator in economics.

Students must also apply to the Graduate School for the accelerated B.B.A./M.A. program, which allows them to take graduate courses in economics. To continue in the program past the B.B.A., students must apply for full admission into the Graduate School and into the Economics department's M.A. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 4-Year Business Economics Sequence

### Freshman Year

- ENGL 1010 - English Composition
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1421 - Honors Calculus I
  
- or
  
- MATH 1910 - Calculus I



## Semester Totals 28-30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
  - History (3) \*
  - Humanities/Fine Arts (3) \*
  - Elective (3)

## Semester Totals 32 hrs

### Junior Year

- ECON 3310 - Microeconomic Theory
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
  - ECON elective (3)
- MIS 3210 - Critical Thinking Using Analytics
- ECON 3320 - Macroeconomic Theory
  - ECON elective (3)
- FIR 3410 - Financial Management
- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt

## Semester Totals 30 hrs

### Senior Year

- ECON elective (3)
- ECON elective (3)
- Elective (3)

- SCMS 3510 - Operations Management
- MKTG 3010 - Principles of Marketing
  - ECON elective (3)
  - ECON elective (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - History (3) \*

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Economics, (Accelerated B.A./M.A.)**

Program objectives can be found in the Business Economics major in the Fogelman College of Business and Economics section.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

### **College and Degree (B.A.) Requirements (6-9 hours)**

The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### **The Major (30 hours)**

Completion of 30 semester hours, including

- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- ECON 3310 - Microeconomic Theory
- ECON 3320 - Macroeconomic Theory
  - 18 additional upper division semester hours in economics courses as approved by the department advisor.

## Electives

Electives may be chosen to bring the total number of hours to 120.

## Honors Program

To be considered eligible for the Honors Degree Program in Economics, the student must:

1. Maintain a minimum grade of B in honors sections of both ECON 2010 - Intro to Macroeconomics and ECON 2020 - Intro to Microeconomics.
2. Obtain the recommendation of a faculty member in the Department of Economics to the Department Honors Committee.

Once accepted to the Honors Degree Program in Economics, the student must

1. Maintain an average GPA of 3.25 in all economics courses to continue in the program.
2. Have a minimum GPA of 3.5 in all economics courses at graduation.
3. Enroll in ECON 3310 - Microeconomic Theory and ECON 3320 - Macroeconomic Theory with an honors contract. Those contracts will be discussed with and approved by the faculty member teaching each course.
4. Write an honors thesis. This begins with finding a faculty advisor for the thesis project, discussing a thesis topic, then writing the thesis. The honors thesis typically takes one semester to complete, although work on it can begin early. When working on the honors thesis, the student will enroll in a section of ECON 4996 - Honors Thesis in Economics for up to one semester. The completed thesis will be graded by the faculty advisor.

Upon successfully completing all these requirements, the student will be recognized at the commencement ceremony by having their degree conferred "With Honors in Economics." Moreover the student's diploma and the record at the University of Memphis will reflect this accomplishment.

## Accelerated B.A./M.A. Program in Economics

This program allows outstanding undergraduates to begin the coursework for the Master of Arts in Economics during their senior year. Students are encouraged to begin planning to enter the Accelerated B.A./M.A. program early in their undergraduate career, in consultation with their advisor in the Department of Economics.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.A. degree while they also begin the coursework toward their M.A.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Economics department. Each applicant will complete an interview with the graduate academic coordinator in economics.

Students must also apply to the Graduate School for the accelerated B.A./M.A. program, which allows them to take graduate courses in economics. To continue in the program past the B.A., students must apply for full admission into the Graduate School and into the Economics department's M.A. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 4-Year Economics Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH\* (3-4)
  - Humanities/Fine Arts\* (3)
  - Elective (3)
  - Foreign Language/B.A. (3)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Fine Arts\* (3)
- ECON 2010 - Intro to Macroeconomics
  - Foreign Language/B.A. (3)

Semester Totals 30-31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - Natural Science\* (4)
  - Elective (3)
- ECON 2020 - Intro to Microeconomics
  - History\* (3)
  - History\* (3)
  - Elective (3)
  - Natural Science\* (4)
  - Elective (3)
- COMM 2381 - Oral Communication

Semester Totals 32 hrs

### Junior Year

- UD elective (3)
- UD elective (3)
- UD elective (3)
- UD ECON elective (3)
- ECON 3310 - Microeconomic Theory
  - UD elective (3)
  - UD elective (3)
  - Elective (3)
- ECON 3320 - Macroeconomic Theory

- UD ECON elective (3)

Semester Totals 30 hrs

## Senior Year

- Elective (3)
- UD ECON (3)
- UD ECON (3)
- UD ECON (3)
- UD ECON (3)
- UD Elective (3)
- Elective (3)
- Elective (4)
- Elective (3)

Semester Totals 28 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Certificate

### Empirical Economic Analysis Certificate

#### Requirements

Students wishing to be certified by the Economics Department take four (4) classes to complete the Certificate Program. Three (3) of the classes can be selected from the list below:

- ECON 4120 - Economic Forecasting
- ECON 4810 - Quant Economics Analysis
- ECON 4820 - Econometrics
- MATH 4607 - Intro SAS Programming
- MATH 4611 - Intro Applied Statistics

## Note

The fourth class consists of a capstone research project. This class can be any upper-division economics class not listed above, where the student would complete the capstone research project on the subject matter discussed in the class. When an appropriate upper-division economics class is not available, an alternative is to take ECON 4910 - Independent Study in Economics under the supervision of a faculty member appointed by the Department Chair.

The economics classes taken under this certificate program count for major credits for any students majoring in Business Economics. However, the MATH classes cannot be used to substitute for any upper-division courses in the Business Economics major. Further, at least two (2) of the four (4) classes required by the Certificate Program must be economics courses.

The Economics Certificate is issued by the Economics Department and is not posted to the student's transcript.

## Department of Finance, Insurance and Real Estate

The Department of Finance, Insurance, and Real Estate offers the Finance major with concentrations in Banking and Financial Services, Business Finance, Real Estate and a minor in Risk Management, Financial Planning and Insurance. The Department curriculum provides basic concepts, principles and analytical tools essential for business decisions and affords a broad background for effective functioning within each FIR discipline.

Finance majors study the social, economic, regulatory environment, and the theory and techniques of decisions on business firms, including the applied areas of investment, financial institutions, real estate, and risk management and insurance. Finance majors also are strongly encouraged to take FIR 1220 - Personal Financial Management during their first two years of study. FIR 1220 - Personal Financial Management is available to be taken by high school students through the University's dual enrollment program. Program objectives for the B.B.A. in Finance are found [here](#).

### **Professional Certificates: Chartered Financial Analyst (CFA) Institute, the Certified Financial Planner (CFP) Board Approval, and Professional Real Estate**

The Department offers three undergraduate Certificate Programs verifying that each certificate holder possesses initial understanding of topics included in the Chartered Financial Analyst (CFA) Program Candidate Body of Knowledge has completed coursework covering all 72 topics tested on the Certified Financial Planner, CFP®, Certification Exam or has completed all course requirements for the Professional Real Estate Certificate.

The worldwide headquarters of both the Chartered Financial Analyst (CFA) and the Institute the Certified Financial Planner (CFP) Board have admitted the Finance curriculum into its recognized academic programs. This recognition indicates that the Financial Planner Certificate holder meets all 72 educational topic requirements to sit for the CFP exam. The Financial Analyst Certificate indicates that certificate holders have covered at least 70% of the CFA Program Candidate Body of Knowledge, positioning them to apply to sit for the CFA exam. Finance majors are encouraged to take one or both of these advanced financial literacy certifications and to sit for each of these licensing exams.

### **Financial Analyst Certificate**

Students wishing to receive the Financial Analyst Certificate must take: FIR 3410, 3710, 3720, 4730 and any two of the following: FIR 4331, 4721, 4770, 4911 (internship with a CFA charter holder member). When an appropriate upper-division FIR class is not available, an alternative is to take FIR 4910 (Independent Study in Finance) under the supervision of a faculty member approved by the department chair. Classes taken in conjunction with the Financial Analyst Certificate may count for credit for any students in the B.B.A. Finance major. The classes taken under this certificate program may also count as credit for any finance major.

Students qualifying for the Financial Analyst Undergraduate Certificate are required to receive a minimum of a B grade in each of the above classes. It is incumbent upon each student to provide his or her qualifications to the department chair in order to receive the certificate. The certificate is issued by the Department of Finance, Insurance, and Real Estate and is not posted on the student's transcript.

### **Financial Planner Certificate**

The CFP® Certification Education Program Undergraduate Certificate (Financial Planner Certificate) allows students to petition the CFP board regarding his or her completion of the CFP Board Educational Requirements and to sit for the Certified Financial Planner

(CFP) exam. Students wishing to receive the Financial Planner Certificate must successfully pass: FIR 3410, 3710, 4011, 4620, 4870, and ACCT 3510. The Financial Planner Certificate is issued by the Department of Finance, Insurance, and Real Estate and is not posted on the student's transcript. The classes taken under this certificate program may also count as credit for any finance major.

Qualifications for either the Financial Analyst Certificate or the CFP® Certification Education Program Certificate (Financial Planner Certificate) may be met in either the FIR undergraduate programs or the FIR graduate programs.

### **Professional Real Estate Certificate**

A Professional Real Estate Certificate is designed for students who desire careers in real estate or for the real estate professional seeking continuing education. It consists of six required courses (18 hours): FIR 3310, 3410, 4310, 4320, 4340, and 4350. This program is independent of any University of Memphis degree program. No transfer credit will be accepted for these six courses. For non-business degree students, there are no prerequisites required. These classes are available on campus and online.

## **Major**

### **Finance - Banking and Financial Services Concentration, (B.B.A.)**

#### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

#### **Lower Division Business Core**

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

### Core requirements:

A minimum of 24 upper division semester hours in courses as follows:

- FIR 3710 - Investments
- FIR 3720 - Financial Markets

### Banking and Financial Services (18 hours):

- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions

### 12 Hours From

Choose one course from the following:



- FIR 4331 - Stock Portfolio Mgmt
- FIR 4620 - Cases in Financial Planning
- FIR 4730 - Financial Analysis/Certification

Choose three courses from the following:

- ACCT 3510 - Federal Income Tax I
- ECON 3610 - Money and Banking
- FIR 3310 - Real Estate Principles
- FIR 3810 - Principles of Risk/Insurance
- FIR 4011 - Retirement and Estate Planning
- FIR 4310 - Real Estate Law
- FIR 4320 - Real Estate Finance
- FIR 4350 - Real Estate Investment
- FIR 4440 - Intermediate Managerial Finance
- FIR 4610 - Cases Managerial Finance
- FIR 4810 - Property & Liability Insurance I
- FIR 4870 - Risk Management
- FIR 4911 - Internship in Finance, Insurance, and Real Estate

## Note

A FIR 4911 internship with a financial institution is highly recommended.

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Banking and Financial Services Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- FIR 1220 - Personal Financial Management
- or
  - Elective (3)
    - Humanities/Fine Arts (3) \*
    - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - Humanities/Fine Arts (3) \*
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems
- MATH 1830 - Elementary Calculus

or

- MATH 1421 - Honors Calculus I

or

- MATH 1910 - Calculus I

## Semester Totals 28-30 hrs

## Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
  - ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
  - COMM 2381 - Oral Communication
    - Natural Science (4) \*
  - SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
  - ACCT 2020 - Fundamentals of Acct II
    - Natural Science (4) \*
    - History (3) \*
    - Elective (3)
  - ECON 2010 - Intro to Macroeconomics

## Semester Totals 32 hrs

## Junior Year

- FIR 3410 - Financial Management
  - MIS 3210 - Critical Thinking Using Analytics
  - SCMS 3711 - Business Analytics - Tools
  - MGMT 3510 - Business Communications
  - ACCT 3130 - Legal/Social/Political Environ
- 
- FIR 3710 - Investments
  - FIR 3720 - Financial Markets
  - SCMS 3510 - Operations Management
    - FIR elective (3)
  - MGMT 3110 - Organization and Mgmt

Semester Totals 30 hrs

## Senior Year

- FIR 4331 - Stock Portfolio Mgmt
- OR
- FIR 4620 - Cases in Financial Planning
- OR
- FIR 4730 - Financial Analysis/Certification
- FIR 4710 - Commercial Banking
- History (3)\*
- MKTG 3010 - Principles of Marketing
  - International Business elective (3)
- FIR 4720 - Management of Financial Institutions
- MGMT 4710 - Strategic Management
- Major elective (3)
- Major elective (3)
- Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Finance - Business Finance Concentration, (B.B.A.)**

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

## Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

## Core requirements:

A minimum of 24 upper division semester hours in courses as follows:

- FIR 3710 - Investments
- FIR 3720 - Financial Markets

## Business Finance (18 hours):

- FIR 4440 - Intermediate Managerial Finance
- FIR 4610 - Cases Managerial Finance

Choose 4 courses from the following:

- FIR 3310 - Real Estate Principles
- FIR 4011 - Retirement and Estate Planning
- FIR 4310 - Real Estate Law
- FIR 4320 - Real Estate Finance
- FIR 4331 - Stock Portfolio Mgmt
- FIR 4340 - Real Estate Appraisal
- FIR 4350 - Real Estate Investment
- FIR 4550 - International Finance
- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions
- FIR 4721 - Financial Derivative Markets
- FIR 4730 - Financial Analysis/Certification
- FIR 4770 - Security Analysis/Portfolio Management
- FIR 4870 - Risk Management
- FIR 4911 - Internship in Finance, Insurance, and Real Estate
- ECON 4112 - Organizational Econ
- ECON 4120 - Economic Forecasting
- MIS 3775 - Database/Information Management

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Business Finance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*

- FIR 1220 - Personal Financial Management

or

- Elective (1-3)

- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - History (3) \*
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

- MATH 1830 - Elementary Calculus

or

- MATH 1421 - Honors Calculus I

or

- MATH 1910 - Calculus I

Semester Totals 28-30 hrs

## Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
  - ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
  - COMM 2381 - Oral Communication
    - Natural Science (4) \*

- SCMS 2710 - Business Analytics -Statistics

or

- MATH 1530 - Prob/Statistics/Non Calculus

- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
  - History (3) \*
  - Elective (3)
  - Humanities/Fine Arts (3) \*

Semester Totals 32 hrs

## Junior Year

- FIR 3410 - Financial Management

- MIS 3210 - Critical Thinking Using Analytics
- SCMS 3711 - Business Analytics - Tools
- MGMT 3510 - Business Communications
- ACCT 3130 - Legal/Social/Political Environ
  
- FIR 3710 - Investments
- FIR 3720 - Financial Markets
- SCMS 3510 - Operations Management
  - FIR elective (3)
- MGMT 3110 - Organization and Mgmt

Semester Totals 30 hrs

## Senior Year

- FIR 4440 - Intermediate Managerial Finance
  - FIR elective (3)
  - FIR elective (3)
- MKTG 3010 - Principles of Marketing
  - Elective (3)
- FIR 4610 - Cases Managerial Finance
  - FIR elective (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Finance - Real Estate Concentration, (B.B.A.)**

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

## Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.



## Core requirements:

A minimum of 24 upper division semester hours in courses as follows:

- FIR 3710 - Investments
- FIR 3720 - Financial Markets

## Real Estate (18 hours):

- FIR 3310 - Real Estate Principles
- FIR 4320 - Real Estate Finance
- FIR 4350 - Real Estate Investment

Choose 3 courses from the following:

- FIR 4310 - Real Estate Law
- FIR 4340 - Real Estate Appraisal
- FIR 4440 - Intermediate Managerial Finance
- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions
- FIR 4911 - Internship in Finance, Insurance, and Real Estate
- ECON 4112 - Organizational Econ
- ESCI 4515 - Geographic Info Science

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Real Estate Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
    - Humanities/Fine Arts (3) \*
  - FIR 1220 - Personal Financial Management
- or
- Elective (3)
- MATH 1710 - College Algebra (if needed)
  - MIS 2749 - Foundation/Information Systems
  - ENGL 1020 - English Comp/Analysis
    - History (3) \*
  - ECON 2010 - Intro to Macroeconomics

Humanities/Fine Arts (3) \*

- MATH 1830 - Elementary Calculus

or

- MATH 1421 - Honors Calculus I

or

- MATH 1910 - Calculus I

Semester Totals 30 hrs

## Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
- Natural Science (4) \*
- COMM 2381 - Oral Communication
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - History (3) \*
  - Natural Science (4) \*
- ECON 2020 - Intro to Microeconomics
  - Elective (1-3)

Semester Totals 30-32 hrs

## Junior Year

- FIR 3410 - Financial Management
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
- MIS 3210 - Critical Thinking Using Analytics
- MGMT 3110 - Organization and Mgmt
  - FIR elective (3)
- FIR 3720 - Financial Markets
- SCMS 3510 - Operations Management
- MGMT 3510 - Business Communications

- FIR 3310 - Real Estate Principles

Semester Totals 30 hrs

## Senior Year

- FIR 3710 - Investments
- FIR 4320 - Real Estate Finance
  - FIR elective (3)
  - FIR elective (3)
  - Elective (3)
- MKTG 3010 - Principles of Marketing
- FIR 4350 - Real Estate Investment
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### **Banking and Financial Services Minor**

#### Requirements

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (9 hours):

- FIR 3720 - Financial Markets
- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions

## For Students Whose Major Is Within Another College at the University (21 hours)

- ACCT 2010 - Fundamentals of Acct I
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- FIR 3410 - Financial Management
- FIR 3720 - Financial Markets
- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions

## **Business Finance Minor**

### Requirements

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics:

9 upper division hours in finance approved by the finance undergraduate career advisor or department chair.

## For Students Whose Major Is Within Another College at the University (21 hours):

- ACCT 2010 - Fundamentals of Acct I
- ECON 2020 - Intro to Microeconomics
- FIR 3410 - Financial Management
- FIR 3710 - Investments
- FIR 3720 - Financial Markets
  - Six additional upper division hours approved by the finance undergraduate career advisor or department chair

## **Real Estate Minor**

### Requirements

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (9 hours):

- FIR 3310 - Real Estate Principles

## Six Additional Hours Chosen From

- FIR 4310 - Real Estate Law
- FIR 4320 - Real Estate Finance
- FIR 4340 - Real Estate Appraisal
- FIR 4350 - Real Estate Investment
- FIR 4911 - Internship in Finance, Insurance, and Real Estate

## For Students Whose Major Is Within Another College at the University (21 Hours):

- ACCT 2010 - Fundamentals of Acct I
- ECON 2020 - Intro to Microeconomics
- FIR 3310 - Real Estate Principles
- FIR 3410 - Financial Management

## Nine Hours Chosen From

- FIR 4310 - Real Estate Law
- FIR 4320 - Real Estate Finance
- FIR 4340 - Real Estate Appraisal
- FIR 4350 - Real Estate Investment
- FIR 4911 - Internship in Finance, Insurance, and Real Estate

## **Risk Management, Financial Planning and Insurance Minor**

### Requirements

For Students Whose Major Is in the Fogelman College of Business and Economics (9 hours):

- FIR 4870 - Risk Management

Choose two courses from the following:

- FIR 3710 - Investments
- FIR 3810 - Principles of Risk/Insurance
- FIR 4011 - Retirement and Estate Planning
- FIR 4620 - Cases in Financial Planning

## For Students Whose Major Is Within Another College at the University (21 hours):

- ACCT 2010 - Fundamentals of Acct I
- ECON 2020 - Intro to Microeconomics
- SCMS 2710 - Business Analytics -Statistics
- FIR 4011 - Retirement and Estate Planning
- FIR 4870 - Risk Management
  - and six additional upper division hours in insurance or finance approved by the department chair

## Accelerated Bachelor/Masters

### Finance - Business Finance and Real Estate Concentrations. (Accelerated B.B.A/M.S)

#### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

#### The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

#### Core requirements:

A minimum of 24 upper division semester hours in courses as follows:

- FIR 3710 - Investments
- FIR 3720 - Financial Markets

#### Business Finance (18 hours):

- FIR 4440 - Intermediate Managerial Finance
- FIR 4610 - Cases Managerial Finance

Choose 4 courses from the following:

- FIR 3310 - Real Estate Principles

- FIR 4011 - Retirement and Estate Planning
- FIR 4310 - Real Estate Law
- FIR 4320 - Real Estate Finance
- FIR 4331 - Stock Portfolio Mgmt
- FIR 4340 - Real Estate Appraisal
- FIR 4350 - Real Estate Investment
- FIR 4550 - International Finance
- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions
- FIR 4721 - Financial Derivative Markets
- FIR 4730 - Financial Analysis/Certification
- FIR 4770 - Security Analysis/Portfolio Management
- FIR 4870 - Risk Management
- FIR 4911 - Internship in Finance, Insurance, and Real Estate
- ECON 4112 - Organizational Econ
- ECON 4120 - Economic Forecasting
- MIS 3775 - Database/Information Management

## Real Estate (18 hours):

- FIR 3310 - Real Estate Principles
- FIR 4320 - Real Estate Finance
- FIR 4350 - Real Estate Investment

Choose 3 courses from the following:

- FIR 4310 - Real Estate Law
- FIR 4340 - Real Estate Appraisal
- FIR 4440 - Intermediate Managerial Finance
- FIR 4710 - Commercial Banking
- FIR 4720 - Management of Financial Institutions
- FIR 4911 - Internship in Finance, Insurance, and Real Estate
- ECON 4112 - Organizational Econ
- ESCI 4515 - Geographic Info Science

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Accelerated B.B.A./M.S. in Finance with a concentration in Business Finance or Real Estate

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Business Administration during their senior year. Students are encouraged to begin planning to enter the Accelerated B.B.A./M.S. program early in their undergraduate careers in consultation with their advisor in the Department of Finance, Insurance, and Real Estate.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.B.A. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Department of Finance, Insurance and Real Estate. Each applicant will complete an interview with the graduate academic coordinator in finance, insurance and real estate.

Students must also apply to the Graduate School for the accelerated B.B.A./M.S. program, which allows them to take graduate courses in finance, insurance and real estate. To continue in the program past the B.B.A., students must apply for full admission into the Graduate School and into the Finance, Insurance and Real Estate department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 4-Year Business Finance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
- FIR 1220 - Personal Financial Management
- or
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - History (3) \*
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems
- MATH 1830 - Elementary Calculus
- or
  - MATH 1421 - Honors Calculus I
- or
  - MATH 1910 - Calculus I

Semester Totals 28-30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage \*
- or
  - ENGL 2202 - Lit Heritage: African-American \*



- COMM 2381 - Oral Communication
  - Natural Science (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
  - History (3) \*
  - Elective (3)
  - Humanities/Fine Arts (3) \*

Semester Totals 32 hrs

## Junior Year

- FIR 3410 - Financial Management
- MIS 3210 - Critical Thinking Using Analytics
- SCMS 3711 - Business Analytics - Tools
- MGMT 3510 - Business Communications
- ACCT 3130 - Legal/Social/Political Environ
- FIR 3710 - Investments
- FIR 3720 - Financial Markets
- SCMS 3510 - Operations Management
  - FIR elective (3)
- MGMT 3110 - Organization and Mgmt

Semester Totals 30 hrs

## Senior Year

- FIR 4440 - Intermediate Managerial Finance
  - FIR elective (3)
  - FIR elective (3)
- MKTG 3010 - Principles of Marketing
  - Elective (3)
- FIR 4610 - Cases Managerial Finance
  - FIR elective (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Typical 4-Year Real Estate Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities/Fine Arts (3) \*
- FIR 1220 - Personal Financial Management

or

- Elective (3)
- MATH 1710 - College Algebra (if needed)
- MIS 2749 - Foundation/Information Systems
- ENGL 1020 - English Comp/Analysis
  - History (3) \*
- ECON 2010 - Intro to Macroeconomics

Humanities/Fine Arts (3) \*

- MATH 1830 - Elementary Calculus

or

- MATH 1421 - Honors Calculus I

or

- MATH 1910 - Calculus I

Semester Totals 30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage \*

or

- ENGL 2202 - Lit Heritage: African-American \*
- Natural Science (4) \*
- COMM 2381 - Oral Communication
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - History (3) \*
  - Natural Science (4) \*
- ECON 2020 - Intro to Microeconomics
  - Elective (1-3)

Semester Totals 30-32 hrs

## Junior Year

- FIR 3410 - Financial Management
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
- MIS 3210 - Critical Thinking Using Analytics
- MGMT 3110 - Organization and Mgmt
  - FIR elective (3)
- FIR 3720 - Financial Markets
- SCMS 3510 - Operations Management
- MGMT 3510 - Business Communications
- FIR 3310 - Real Estate Principles

Semester Totals 30 hrs

## Senior Year

- FIR 3710 - Investments
- FIR 4320 - Real Estate Finance
  - FIR elective (3)
  - FIR elective (3)
  - Elective (3)
- MKTG 3010 - Principles of Marketing
- FIR 4350 - Real Estate Investment
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Certificate

### Financial Analyst Certificate

#### Requirements

Students Wishing to Receive the Financial Analyst Certificate Must Take:

- FIR 3710 - Investments
- FIR 3720 - Financial Markets
- FIR 4730 - Financial Analysis/Certification

Any Two of the Following:

- FIR 4331 - Stock Portfolio Mgmt
- FIR 4721 - Financial Derivative Markets
- FIR 4770 - Security Analysis/Portfolio Management
- FIR 4911 - Internship in Finance, Insurance, and Real Estate (internship with a CFA charter holder member)

#### Note

When an appropriate upper-division FIR class is not available, an alternative is to take FIR 4910 - Independent Study in Finance, Insurance, Real Estate under the supervision of a faculty member appointed by the Department Chair. Classes taken in conjunction with the Financial Analyst Certificate may count for credit for any students in the BBA Finance major.

Students qualifying for the Financial Analyst Undergraduate Certificate are required to receive a minimum of a B grade in each of the above classes. It is incumbent on each student to petition the Department Chair of his or her qualifications to receive the Certificate. The certificate is issued by the Department of Finance, Insurance and Real Estate and is not posted on the student's transcript.

**Note:** For BBA students majoring in Finance with a concentration in Banking and Financial Services that wish to earn the Financial Analyst Certificate, in addition to FIR 3710, 3720, 4710, 4720, 4730; take 6 hours from FIR 4331, 4721, 4770, 4911; and take 3 hours from FIR 3310, 3810, 4011, 4310, 4320, 4331, 4350, 4440, 4610, 4620, 4810, 4870, ACCT 3510, ECON 3610.

**Note:** For BBA students majoring in Finance with a concentration in Business Finance that wish to earn the Financial Analyst Certificate, FIR 3710, 3720, 4440, 4610, 4730; take 6 hours from FIR 4331, 4721, 4770, 4911; and take 3 hours from FIR 3310, 4011, 4310, 4320, 4331, 4340, 4350, 4550, 4710, 4720, 4721, 4730, 4770, 4870, 4911, ECON 4112, 4120, MIS 3775, ACCT 3510.

## Financial Planner Certificate

### Requirements

#### Students Wishing to Receive the Education Program Certificate Must Take:

- FIR 3410 - Financial Management
- FIR 3710 - Investments
- FIR 4011 - Retirement and Estate Planning
- FIR 4620 - Cases in Financial Planning
- FIR 4870 - Risk Management
- ACCT 3510 - Federal Income Tax I

### Note

The CFP® Certification Education Program Undergraduate Certificate (Financial Planner Certificate) allows students to petition to the CFP board regarding his or her completion of the CFP Board Educational Requirements and to sit for the Certified Financial Planner (CFP) exam. Students wishing to receive the Financial Planner Certificate must successfully pass: FIR 3410, FIR 3710, FIR 4011, FIR 4620, FIR 4870, and ACCT 3510 . The Financial Planner Certificate is issued by the Department of Finance, Insurance and Real Estate and is not posted on the student's transcript. The classes taken under this certificate program may also count as credit for any finance major.

Qualifications for either the Financial Analyst Certificate or the CFP® Certification Education Program Certificate (Financial Planner Certificate) may be met in either the FIR undergraduate programs or the FIR graduate programs.

**Note:** For BBA students majoring in Finance with a concentration in Banking and Financial Services that wish to earn the Financial Planner Certificate, in addition to FIR 3710, 3720, 4710, 4720; the student must complete FIR 4011, 4620, 4870, and ACCT 3510.

**Note:** For BBA students majoring in Finance with a concentration in Business Finance that wish to earn the Financial Planner Certificate, the student must complete FIR 3710, 3720, 4011, 4440, 4610, 4620, 4870, and ACCT 3510.

## Professional Real Estate Certificate

A Professional Real Estate Certificate is designed for students who desire careers in real estate or for the real estate professional seeking continuing education.

## Requirements

It Consists of the Six Required Courses (18 hours):

- FIR 3310 - Real Estate Principles
- FIR 3410 - Financial Management
- FIR 4310 - Real Estate Law
- FIR 4320 - Real Estate Finance
- FIR 4340 - Real Estate Appraisal
- FIR 4350 - Real Estate Investment

## Note

This program is independent of any University of Memphis degree program. No transfer credit will be accepted for these six courses. For non-business degree students, there are no prerequisites required. These classes are available on campus and online.

## Department of Management

An effective manager must have competence in many disciplines, an understanding of a wide variety of relationships, and the ability to analyze evolving management requirements. Regardless of the functional specialty, the professional manager must also be a leader of people who knows how to organize and to motivate groups of people serving the goals of the organization.

Program objectives for a B.B.A. in Management are found [here](#).

Effective adaptation of management to such emergent conditions as the continued growth of science and technology, populations, and large-scale organizational demands a thorough grasp of management process theory including planning, organizing, directing, and controlling of operations.

The Management major is designed to provide students with a basic understanding of management concepts, and theories and principles, which will be useful in all kinds of organizations. All management majors take courses in management principles, business communication, human resources, management, organizational behavior, international management, and strategic management. These courses and others are designed to develop knowledge of organizations and administrative processes and to enhance skills in interpersonal relations, written and oral communication, and work project development and completion. The Management major is intended to promote the development of general knowledge and skills that can be applied in virtually any organizational setting and which will continue to be important in the future. In addition to required core courses in management, students select among several more specialized courses to complete their majors.

## Major

### **Management - Human Resources Management Concentration, (B.B.A.)**

University General Education Program (41 hours)

See University General Education Program for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) with a minimum grade of "C", ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) are specified for the B.B.A. degree.

## Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

## Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

### For Students Choosing a Major in Management With a Concentration in Human Resources Management:

A minimum of 24 upper division semester hours including

- MGMT 3215 - Management of Human Resources
- MGMT 4240 - Compensation Performance Appraisal
- MGMT 4260 - Employee Staffing/Training/Development
- MGMT 4420 - Organizational Behavior in Business
- MGMT 4461 - Managerial Leadership

either

- MGMT 4251 - Employee Relations

or

- MGMT 3812 - Managing Employee Wellness

either

- MGMT 4510 - International Business Communication

or

- MGMT 4810 - International Management

and either

- MGMT 4910 - Independent Study Management

or

- MGMT 4911 - Internship In Mgmt

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Management Sequence (concentration in Human Resources Management)



## Freshman Year

- ENGL 1010 - English Composition
  - History (3) \*
  - Humanities/Fine Arts (3) \*
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
- MIS 2749 - Foundation/Information Systems
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1421 - Honors Calculus I
  
- or
  
- MATH 1910 - Calculus I

Semester Totals 28-30 hrs

## Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
  
- ENGL 2201 - Literary Heritage \*
  
- or
  
- ENGL 2202 - Lit Heritage: African-American \*
  
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
  
- SCMS 2710 - Business Analytics -Statistics
  
- or
  
- MATH 1530 - Prob/Statistics/Non Calculus
  
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
  - History (3) \*
  
- ECON 2020 - Intro to Microeconomics
  - Elective (3)

## Semester Totals 32 hrs

### Junior Year

- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt
- SCMS 3711 - Business Analytics - Tools
- MGMT 3215 - Management of Human Resources
- MIS 3210 - Critical Thinking Using Analytics
- MGMT 4420 - Organizational Behavior in Business
- MGMT 4240 - Compensation Performance Appraisal
- FIR 3410 - Financial Management
- ACCT 3130 - Legal/Social/Political Environ
- MKTG 3010 - Principles of Marketing

## Semester Totals 30 hrs

### Senior Year

- MGMT 4510 - International Business Communication
- or
- MGMT 4810 - International Management
- MGMT 4260 - Employee Staffing/Training/Development
- MGMT 4461 - Managerial Leadership
- SCMS 3510 - Operations Management
  - Elective (3)
- MGMT 4251 - Employee Relations
- or
- MGMT 3812 - Managing Employee Wellness
- MGMT 4911 - Internship In Mgmt
- or
- MGMT 4910 - Independent Study Management
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Management, (B.B.A.)**

### University General Education Program (41 hours)

See University General Education Program for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) with a minimum grade of "C", ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) are specified for the B.B.A. degree.

### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

### Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

## For Students Choosing a Major in Management With No Concentration:

A minimum of 24 upper division semester hours including

- MGMT 3215 - Management of Human Resources
- MGMT 4420 - Organizational Behavior in Business
- MGMT 4461 - Managerial Leadership

and either

- MGMT 4510 - International Business Communication

or

- MGMT 4810 - International Management

## Additional Courses

The additional 12 hours of the 24 hour minimum for the major can be selected from the following:

- MGMT 3812 - Managing Employee Wellness
- MGMT 4240 - Compensation Performance Appraisal
- MGMT 4251 - Employee Relations
- MGMT 4260 - Employee Staffing/Training/Development
- MGMT 4481 - Teamwork/Group Dynamics in Organizations

- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MGMT 4820 - Entrepreneurship
- MGMT 4910 - Independent Study Management
  - MGMT 4110-MGMT 4119
- MGMT 4911 - Internship In Mgmt

### A Maximum of 6 Hours From the Following Courses:

- HPRM 3330 - Managing Hotel/Resort Ops
- HPRM 3315 - Hospitality Human Resource Mgm
- HPRM 4350 - Properties Develomnt/Planning
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4470 - Essentials of Negotiation
- PADM 4226 - Intro Nonprofit Organizations
- COMM 4342 - Small Group Communication

### Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

### Typical 4-Year Management Sequence (no concentration)

#### Freshman Year

- ENGL 1010 - English Composition
  - History (3) \*
  - Humanities/Fine Arts (3) \*
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
- ECON 2010 - Intro to Macroeconomics
  - Humanities/Fine Arts (3) \*
- MIS 2749 - Foundation/Information Systems
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1421 - Honors Calculus I
  
- or
  
- MATH 1910 - Calculus I

## Semester Totals 28-30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
  - History (3) \*
- ECON 2020 - Intro to Microeconomics
  - Elective (3)

## Semester Totals 32 hrs

### Junior Year

- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt
- SCMS 3711 - Business Analytics - Tools
- MGMT 3215 - Management of Human Resources
- MIS 3210 - Critical Thinking Using Analytics
- MGMT 4420 - Organizational Behavior in Business
  - MGMT elective (3)
- FIR 3410 - Financial Management
- ACCT 3130 - Legal/Social/Political Environ
- MKTG 3010 - Principles of Marketing

## Semester Totals 30 hrs

### Senior Year

- MGMT 4510 - International Business Communication
- or

- MGMT 4810 - International Management
  - MGMT elective (3)
- MGMT 4461 - Managerial Leadership
- SCMS 3510 - Operations Management
  - Elective (3)
  - MGMT elective (3)
  - MGMT elective (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### Entrepreneurship Minor

#### Requirements

For All Majors (18 hours):

- UNIV 2555 - Intro Creativity/Innov/Design
- MGMT 2820 - Intro to Entrepreneurship
  - elective
- MGMT 4920 - Independent Study in Entrepreneurship
- MGMT 4921 - Internship in Entrepreneurship
- or
- UNIV 4110 - Internship
- MGMT 4820 - Entrepreneurship

## Management Minor

### Requirements

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (12 hours):

- MGMT 3215 - Management of Human Resources
- MGMT 4420 - Organizational Behavior in Business
  - and 6 upper division semester hours in management

For Students Whose Major Is Within Another College of the University (18 hours):

- MGMT 3110 - Organization and Mgmt
- MGMT 3215 - Management of Human Resources
- MGMT 3510 - Business Communications
- MGMT 4420 - Organizational Behavior in Business
  - and 6 upper division semester hours in management

## Department of Marketing and Supply Chain Management

### Marketing Management

The objective of the Marketing and Supply Chain Management Department is to provide a broad view of the marketing process and to develop an understanding of all the factors involved in the marketing of goods and services.

Marketing Management majors study the practical application of marketing concepts, including procedures for developing promotion, pricing, distribution, and sales management strategies. Additionally, instruction is provided in market research, buyer behavior issues, and a variety of market programming topics.

Program objectives for a B.B.A. in Marketing Management are found [here](#).

### Supply Chain Management

Supply Chain Management majors study the functions that comprise supply chain management including logistics, purchasing/sourcing, operations, and transportation. Logistics procedures and strategies, warehousing, inventory management, and order processing are covered. Emphasis on analysis of the competitive environment, distribution network alternatives, and customer service aspects provide a background in each functional area to enable students to pursue their areas of interest.

### Major



## Marketing Management, (B.B.A.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

### Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy

- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

## A Minimum of 24 Upper Division Semester Hours in Marketing Courses as Follows:

- SCMS 2610 - Introduction to Supply Chain Management
- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion
- MKTG 4080 - Marketing Research
- MKTG 4901 - Management of Marketing Strategies

and either

- MKTG 3410 - Building Buyer/Seller Relationships

or

- MKTG 4470 - Essentials of Negotiation

## Six Semester Hours Chosen by the Student From the Following:

- MKTG 3320 - Retailing Management
- MKTG 3340 - Principles of Social Media Marketing
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4230 - Services Marketing
- MKTG 4470 - Essentials of Negotiation
- MKTG 4530 - International Marketing
- MKTG 4630 - Social Commerce Strategies and Analytics
- MKTG 4911 - Marketing Internship
  - MKTG 4920-MKTG 4929
- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Marketing Management Sequence:

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities/Fine Arts (3) \*
- MIS 2749 - Foundation/Information Systems
  - Elective (1-3)
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - Elective (3)
  - Humanities/Fine Arts (3) \*
- ECON 2020 - Intro to Microeconomics
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1421 - Honors Calculus I
  
- or
  
- MATH 1910 - Calculus I

Semester Totals 28-30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American
  
- COMM 2381 - Oral Communication
  - Natural Science (4) \*
  
- SCMS 2710 - Business Analytics -Statistics
  
- or
  
- MATH 1530 - Prob/Statistics/Non Calculus
  
- ACCT 2020 - Fundamentals of Acct II
  - History (3) \*
- SCMS 2610 - Introduction to Supply Chain Management
- ECON 2010 - Intro to Macroeconomics
  - Natural Science (4) \*

Semester Totals 32 hrs

## Junior Year

- MGMT 3510 - Business Communications
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion
  - MKTG major elective (3)
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt

Semester Totals 30 hrs

## Senior Year

- History (3) \*
- MKTG 4080 - Marketing Research
- MKTG 3410 - Building Buyer/Seller Relationships
- or
- MKTG 4470 - Essentials of Negotiation
- SCMS 3510 - Operations Management
  - Elective (3)
  - MKTG major elective (3)
- MKTG 4901 - Management of Marketing Strategies
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Supply Chain Management, (B.B.A.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

### Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy

- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 4530 - International Marketing

## The Major (24 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

A minimum of 24 upper division semester hours in supply chain management courses as follows:

- SCMS 2610 - Introduction to Supply Chain Management
- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management
- SCMS 4510 - Operations Planning and Resources Management

and either

- SCMS 4810 - Problems in Supply Chain Management

or

- SCMS 4811 - Internship in Supply Chain Management

The remaining six to nine semester hours chosen by the student from the following courses:

- ACCT 3310 - Cost Accounting
- MGMT 3215 - Management of Human Resources
- MGMT 4420 - Organizational Behavior in Business
- MGMT 4510 - International Business Communication
- MIS 3885 - Strategic IT Project Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4470 - Essentials of Negotiation
- SCMS 4511 - Supply Chain Strategy
- SCMS 4512 - Current Topics in Supply Chain Management
- SCMS 4810 - Problems in Supply Chain Management

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120.

## Typical 4-Year Supply Chain Management Sequence:

### Freshman Year

- ENGL 1010 - English Composition
  - History (3) \*
  - Humanities/Fine Arts (3) \*
- MIS 2749 - Foundation/Information Systems
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - History (3) \*
  - Humanities/Fine Arts (3) \*
- ECON 2010 - Intro to Macroeconomics
  
- MATH 1830 - Elementary Calculus
  
- or
  
- MATH 1421 - Honors Calculus I
  
- or
  
- MATH 1910 - Calculus I

Semester Totals 30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
  
- ENGL 2201 - Literary Heritage \*
  
- or
  
- ENGL 2202 - Lit Heritage: African-American \*
  - Natural Science (4) \*
- COMM 2381 - Oral Communication
  
- SCMS 2710 - Business Analytics -Statistics
  
- or
  
- MATH 1530 - Prob/Statistics/Non Calculus
  
- ACCT 2020 - Fundamentals of Acct II
  - Natural Science (4) \*
- SCMS 2610 - Introduction to Supply Chain Management
- ECON 2020 - Intro to Microeconomics
  - Elective (3)

Semester Totals 32 hrs

## Junior Year

- MIS 3210 - Critical Thinking Using Analytics
- SCMS 3711 - Business Analytics - Tools
  - Major elective (3)
- MKTG 3010 - Principles of Marketing
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3620 - Logistics Management
- SCMS 3510 - Operations Management
- MGMT 3510 - Business Communications
- MGMT 3110 - Organization and Mgmt
  - Elective (3)

Semester Totals 30 hrs

## Senior Year

- Elective (1-3)
- SCMS 3650 - Supply Management
- SCMS 4510 - Operations Planning and Resources Management
  - Major elective (3)
- SCMS 4810 - Problems in Supply Chain Management
- or
- SCMS 4811 - Internship in Supply Chain Management
- FIR 3410 - Financial Management
  - Major elective (if needed) (3)
  - Intl Business elective (3)
- MGMT 4710 - Strategic Management
  - Elective (3)

Semester Totals 28-30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement



## Minor

### Marketing Management Minor

#### Requirements

For Students Whose Major Is in Another College of the University (18 hours):

- MKTG 3010 - Principles of Marketing
- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion
- SCMS 2610 - Introduction to Supply Chain Management

Six Semester Hours Chosen by the Student From the Following:

- MKTG 3320 - Retailing Management
- MKTG 3340 - Principles of Social Media Marketing
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4230 - Services Marketing
- MKTG 4470 - Essentials of Negotiation
- MKTG 4530 - International Marketing
- MKTG 4630 - Social Commerce Strategies and Analytics

MKTG 4920-MKTG 4929

- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (9 hours):

- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion

Three Semester Hours Chosen by the Student From the Following:

- MKTG 3320 - Retailing Management
- MKTG 3340 - Principles of Social Media Marketing
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4230 - Services Marketing
- MKTG 4470 - Essentials of Negotiation
- MKTG 4530 - International Marketing
- MKTG 4630 - Social Commerce Strategies and Analytics

- MKTG 4920-MKTG 4929
- SCMS 2610 - Introduction to Supply Chain Management
- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management

## Professional Selling Minor

### Requirements

For Students Whose Major Is in Another College of the University (18 hours):

- MIS 2749 - Foundation/Information Systems
- MKTG 3010 - Principles of Marketing
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4470 - Essentials of Negotiation

6 Semester Hours Chosen by the Student From the Following Courses:

- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion
- MKTG 3320 - Retailing Management
- SCMS 2610 - Introduction to Supply Chain Management

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (9 hours):

- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4470 - Essentials of Negotiation

3 Semester Hours Chosen by the Student From the Following Courses:

- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion
- MKTG 3320 - Retailing Management
- SCMS 2610 - Introduction to Supply Chain Management

## Social Media Marketing Minor

### Requirements

For Students Whose Major Is in Another College of the University (18 hours):

- MKTG 3340 - Principles of Social Media Marketing
- MKTG 4630 - Social Commerce Strategies and Analytics
- MKTG 4611 - Social Commerce Internship/Practicum

Plus Any Three of the Following:

- COMM 4811 - Media 2.0
- MKTG 3010 - Principles of Marketing
- MKTG 3012 - Consumer Behavior
- MKTG 3140 - Advertising/Sales Promotion
- MIS 4160 - Mobile Application Development
- MIS 4760 - Web Site Development
- JRSM 4910 - Advanced Social Media

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics (9 hours):

- MKTG 3340 - Principles of Social Media Marketing
- MKTG 4630 - Social Commerce Strategies and Analytics
- MKTG 4611 - Social Commerce Internship/Practicum

## Supply Chain Management Minor

### Requirements

For students whose major is in another college of the University (18 hours):

- SCMS 2610 - Introduction to Supply Chain Management
- SCMS 2710 - Business Analytics -Statistics or equivalent
- SCMS 3510 - Operations Management
- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management
- MGMT 3110 - Organization and Mgmt

For students whose major is Marketing Management (9 hours):

Choose any three of the following courses:

- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management
- SCMS 4510 - Operations Planning and Resources Management
- SCMS 4511 - Supply Chain Strategy
- SCMS 4512 - Current Topics in Supply Chain Management
- SCMS 4810 - Problems in Supply Chain Management

For students whose major is in another department in the Fogelman College of Business and Economics (9 hours):

- SCMS 2610 - Introduction to Supply Chain Management

Two of the Following Courses:

- SCMS 3620 - Logistics Management
- SCMS 3650 - Supply Management
- SCMS 4510 - Operations Planning and Resources Management

## Department of International Business

The International Business major prepares undergraduate business students for entry-level careers in international business fields through a broad, interdisciplinary curriculum that combines theoretical and practical international business study with course work in the liberal arts, including foreign language and area studies. Program objectives for the B.B.A. in International Business are found [here](#).

### Major

#### International Business, (B.B.A.)

The International Business major prepares undergraduate business students for entry-level careers in international business fields through a broad, interdisciplinary curriculum that combines theoretical and practical international business study with course work in the liberal arts, including foreign language and area studies. Program objectives for the B.B.A. in International Business are found [here](#).

For further information concerning this program, contact the International Business advisor or The Fogelman College of Business and Economics Advising Office.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1830, MATH 1421, or MATH 1910 (Mathematics requirement) and ECON 2010 and ECON 2020 (Social/Behavioral Sciences requirement) with a minimum grade of "C" are specified for the B.B.A. degree.

### Lower Division Business Core

No grade below "C" and a 2.25 GPA in the following Lower Division Business Core:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics
- MIS 2749 - Foundation/Information Systems

Take either:

- SCMS 2710 - Business Analytics -Statistics

OR

- MATH 1530 - Prob/Statistics/Non Calculus

Take one from:

- MATH 1830 - Elementary Calculus
- MATH 1910 - Calculus I
- MATH 1421 - Honors Calculus I

### Upper Division Business Core

No grade below "C" and a 2.25 GPA in the following Upper Division Business Core:

- ACCT 3130 - Legal/Social/Political Environ
- FIR 3410 - Financial Management
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MGMT 4710 - Strategic Management (Registration limited to graduating seniors)
- MIS 3210 - Critical Thinking Using Analytics
- MKTG 3010 - Principles of Marketing
- SCMS 3510 - Operations Management (Take SCMS 3711 before SCMS 3510)
- SCMS 3711 - Business Analytics - Tools

Choose one of the following international business electives:

- ACCT 4625 - Internl Acct/IFRS/US GAAP
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology

- MKTG 4530 - International Marketing

## The Major (27 hours)

No grade below "C" and a minimum 2.25 GPA in the major.

## Foreign Language:

6 semester hours in one modern foreign language at or above the 2000 level or equivalent.

## Choose 4 International Business Courses From the Following (12 hours):

- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 4550 - International Finance
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MKTG 4530 - International Marketing
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology

## Choose 2 Additional Courses From the Following (6 hours):

- BA 4911 - Internship International Business
- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 3720 - Financial Markets
- FIR 4440 - Intermediate Managerial Finance
- FIR 4550 - International Finance
- FIR 4720 - Management of Financial Institutions
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4080 - Marketing Research
- MKTG 4470 - Essentials of Negotiation
- MKTG 4530 - International Marketing
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- SCMS 2610 - Introduction to Supply Chain Management
- SCMS 4510 - Operations Planning and Resources Management
- SCMS 4511 - Supply Chain Strategy

## Choose 1 (3 hours):

- BA 4911 - Internship International Business
- BA 4910 - Independent Study in International Business
  - Study Abroad

## Electives (13 hours)

Lower division or upper division courses to bring the total of hours earned to 120. See International Business advisor for recommended electives in global and area studies.

## Typical 4-Year International Business Sequence:

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities/Fine Arts (3) \*
  - Foreign Language (3)
- MIS 2749 - Foundation/Information Systems
- MATH 1710 - College Algebra (if needed)
- ENGL 1020 - English Comp/Analysis
  - Elective (3) \*
  - Foreign Language (3)
- ECON 2010 - Intro to Macroeconomics
  
- MATH 1830 - Elementary Calculus
- or
- MATH 1421 - Honors Calculus I
- or
- MATH 1910 - Calculus I

Semester Totals 30 hrs

### Sophomore Year

- ACCT 2010 - Fundamentals of Acct I
- ENGL 2201 - Literary Heritage \*
- or

- ENGL 2202 - Lit Heritage: African-American \*
- Foreign Language (3)
- Natural Science (4) \*
- SCMS 2710 - Business Analytics -Statistics
- or
- MATH 1530 - Prob/Statistics/Non Calculus
- ACCT 2020 - Fundamentals of Acct II
- COMM 2381 - Oral Communication
  - Foreign Language (3)
- ECON 2020 - Intro to Microeconomics
  - Natural Science (4) \*

Semester Totals 32 hrs

## Junior Year

- MGMT 3510 - Business Communications
- ACCT 3130 - Legal/Social/Political Environ
- SCMS 3711 - Business Analytics - Tools
- MIS 3210 - Critical Thinking Using Analytics
- MGMT 3110 - Organization and Mgmt
- SCMS 3510 - Operations Management
- Major elective (3)
- MKTG 3010 - Principles of Marketing
  - Humanities/Fine Arts (3) \*
- FIR 3410 - Financial Management

Semester Totals 30 hrs

## Senior Year

- Major elective (3)
- Major elective (3)
- History (3) \*
- Major elective (3)
- Major requirement (3)
- Major elective (3)
- History (3) \*
- Elective (1-3)
- MGMT 4710 - Strategic Management
  - Major elective (3)



Semester Totals 28 - 30 hrs

Total Hours: 120-122

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### International Business Minor

#### Requirements

For Students Whose Major Is in Another Department in the Fogelman College of Business and Economics:

12 hours from the following courses with the approval of the International Business advisor:

- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 3720 - Financial Markets
- FIR 4440 - Intermediate Managerial Finance
- FIR 4550 - International Finance
- FIR 4720 - Management of Financial Institutions
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4080 - Marketing Research
- MKTG 4470 - Essentials of Negotiation
- MKTG 4530 - International Marketing
- SCMS 2610 - Introduction to Supply Chain Management
- SCMS 4510 - Operations Planning and Resources Management
- SCMS 4511 - Supply Chain Strategy

For Students Whose Major Is in Another College of the University:

The student will take a minimum of 18 hours in The Fogelman College of Business and Economics, at least 9 hours of which must be chosen from the following:

- ECON 4350 - International Econ
- ECON 4351 - International Monetary Theory/Policy
- FIR 3720 - Financial Markets
- FIR 4440 - Intermediate Managerial Finance
- FIR 4550 - International Finance
- FIR 4720 - Management of Financial Institutions
- MGMT 4510 - International Business Communication
- MGMT 4810 - International Management
- MIS 4310 - Global Information Technology
- MIS 4321 - Global Outsourcing/Technology
- MKTG 3410 - Building Buyer/Seller Relationships
- MKTG 4080 - Marketing Research
- MKTG 4470 - Essentials of Negotiation
- MKTG 4530 - International Marketing
- SCMS 2610 - Introduction to Supply Chain Management
- SCMS 4510 - Operations Planning and Resources Management
- SCMS 4511 - Supply Chain Strategy

## College of Communication and Fine Arts

### The College of Communication and Fine Arts

ANNE F. HOGAN, Ph.D., Dean

Room 232, Communication Fine Arts Building

(901) 678-2350

<http://ccfa.memphis.edu/>

The College of Communication and Fine Arts has four primary functions. First, it offers courses of study aimed at preparing its students to work toward careers in the fine or applied arts, communications, or the performing arts, whether as practitioners, teachers, artists, or consultants. Second, the college affords broad exposure and instruction in fine arts and communication to students of other colleges in the university whose degree programs may be enhanced by such exposure. Third, with a view toward individual professional growth as well as general cultural enhancement, the college vigorously promotes both scholarly research and artistic production on the part of its faculty. Finally, the college seeks to enrich the cultural atmosphere of both the university and the community at large through a continuing variety of public programs, to include art exhibitions, media presentations, dramatic productions, concerts, recitals, lectures, seminars, debates, workshops, festivals, and the like.

Through the diversity of these constituent elements, the college reflects the unity and challenge facing the communicative artist and scholar. Ultimately it is our goal to foster a more intense and profound awareness of the broad range of human experience from which the college derives its pertinence and vitality.

## Philosophy

The College of Communication and Fine Arts is focused ultimately upon visual and audible symbols, whose rational and emotional values it is the mission of the college to create and explore. In the belief that perception is largely shaped by experience, The College of Communication and Fine Arts offers a range of symbolically rendered experiences, both individual and collective, in the hope of broadening and sensitizing the perceptions of its students.

The kind of symbolic experience that communicates emerges when, in Ruskin's phrase, "the hand, the head and the heart of man go together." Students in The College of Communication and Fine Arts receive individual and small group instruction toward this end. In the hope of furthering the capacity to impose a pattern on experience and to recognize the patterns offered by others, students of the college are exposed additionally to courses drawn from a broad base of the liberal arts.

The faculty of the college represents a diversity of academic and artistic backgrounds and interests, reflected not only in its teaching, but also in research and creative activities. It is a faculty united in the attempt to maintain the highest standards in both classroom and studio work, standards that find their limits at last only in the mystery and wonder of the human experience from which they rise.

## Organization

The College of Communication and Fine Arts comprises six academic departments: Architecture, Art, Communication, Journalism, Music, and Theatre and Dance. The requirements for the majors and minors offered by these departments are listed later in this section.

## Degrees Offered

A student may earn a Bachelor of Fine Arts, Bachelor of Music, or Bachelor of Arts degree, by majoring in one of the six departments that constitute the College of Communication and Fine Arts. The following is an outline by department of all majors and concentration areas offered by the departments in the College of Communication and Fine Arts.

A minimum grade of "C" is required in every course applicable toward a major or minor.

Every student should be aware that the mere completion of courses with a minimum grade of "C" does not guarantee classification as a major or minor in the discipline concerned; *the student must be recommended by the chair of the department in which the major or minor is sought*. If, in the opinion of the chair, the quality of the student's work is not high enough, additional work, the repetition of courses, or other evidences of superior scholarship may be required.

Credit in the College of Communication and Fine Arts may be granted for validated learning from experience or non-traditional instruction. Guidelines for this procedure may be obtained in the office of the Dean of the College of Communication and Fine Arts.

### Bachelor of Fine Arts Degree Requirements

- In ARCHITECTURE
- In ART
- In INTERIOR DESIGN
- In THEATRE

### Bachelor of Music Degree Requirements

- In MUSIC
- In MUSIC INDUSTRY

### Bachelor of Arts Degree Requirements

These hours are in addition to the University General Education Program requirements.

- Foreign Language: 6 hours in a single foreign language at or above the 2000 level or equivalent

## Residence Requirements

University residence requirements are explained in detail in the Graduation from the University section. A transfer student in The College of Communication and Fine Arts must earn at least 6 semester hours in residence in the major subject and a minimum of 3 semester hours in the minor. These credits may be earned only through regular class enrollment for a letter grade.

Individual program requirements described in the University of Memphis Undergraduate Catalog are subject to change. Please consult the college level advisor for changes that may occur before publication of the next issue of this Catalog.

## Department of Architecture

The Department of Architecture consists of the Architecture Program and the Interior Design Program. The mission of the Department of Architecture is to prepare graduates to enter the professional practice of architecture and interior design and to serve the Memphis and Mid-South region through research, engaged scholarship, interdisciplinary collaboration, and creative expression that contributes to sustainable, stable communities and enhances the quality of life for all citizens.

The goals and objectives of the Department are as follows: to provide the highest quality professional education through a well-rounded discovery-based curriculum in both the art and science of design with emphasis on processes, professional standards, and the practical

application of design and technology; to provide research opportunities for faculty and students with emphasis on "hands on" multi-disciplinary projects through which students gain valuable professional experience while providing services to the citizens of the region; and to expand opportunities for Architecture and Interior Design students by bringing them together with faculty and students in the City Planning, Real Estate Development, and other programs to address public issues, support stable and sustainable neighborhoods, and develop community visions throughout the region.

## Architecture Honors

The Department of Architecture Honors Program provides an opportunity for selected Architecture and Interior Design students to enrich their learning experience through honors courses, independent study, a senior thesis, and extracurricular learning experiences. The Honors Program requires a minimum of 15 semester hours of honors work in courses within the Department of Architecture. Students who complete the appropriate degree program with a 3.25 cumulative grade point average will earn a degree that includes the distinction "Honors in Architecture." Moreover, the diploma and record at the University of Memphis will reflect this accomplishment. Please contact the Department of Architecture honors coordinator for more detailed information.

## Major

### Architecture, (B.F.A.)

The Bachelor of Fine Arts with a major in Architecture is a pre-professional degree. At the University of Memphis, the professional degree in Architecture is the Master of Architecture degree. See the Graduate Catalog for details.

**NOTE:** Before enrolling in any Architecture course, all applicants seeking admission to the B.F.A. with a major in Architecture must complete and submit to the Department of Architecture an application form, a writing assignment, and a portfolio of five representative works. These three components comprise the Incoming Evaluation for Architecture and will be reviewed by a faculty committee. Applicants are accepted on the basis of potential in the field of architecture. After review, the department notifies the student of one of the following: (1) acceptance, (2) one semester acceptance on a probationary basis, (3) recommendation to correct the deficiencies and reapply, or (4) denial of admission. Permission to enroll in any Architecture courses for which a permit is required beyond first semester, first year is based upon this review. Contact the Department of Architecture for details and deadline.

Students transferring from another major or another institution who intend to pursue a B.F.A. degree with a major in Architecture must complete the Department of Architecture Incoming Evaluation prior to enrolling in Architecture courses. Transfer students seeking advanced standing in the Architecture major should submit a portfolio of work representing previously completed Architecture studio work. The review committee will determine if the portfolio work is equivalent to comparable courses at the University of Memphis. Placement in the major is dependent upon the review. Even if admitted to advanced standing, the student may be required to remedy previous course deficiencies.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note the following are specified by the department for this program:

### Mathematics:

- MATH 1730 - Pre-Calculus
- or
- MATH 1830 - Elementary Calculus

## Social/Behavioral Sciences:

- ANTH 1200 - Cultural Anthropology
- and
- SOCI 1010 - Introduction to Sociology

## Natural Science:

- PHYS 2010 - General Physics I/Trig
- and
- PHYS 2011 - General Physics Lab I
- and
- ESCI 1010 - Weather and Climate
  - ESCI 1020 - Landforms
- or
- ESCI 1040 - Physical Geology plus labs

## Humanities:

- ARTH 2010 - World Art I
- and
- ARTH 2020 - World Art II

## History:

- HIST 1110 - World Civilization I
- and
- HIST 1120 - World Civilization II

## The Major (87 hours)

### Major Foundation Core (32 hours)

- ARCH 1111 - Fundamentals of Design Studio
- ARCH 1112 - Architecture Graphics Studio
- ARCH 1113 - Design Visualization
- ARCH 1120 - Intro to Architecture + Design
- ARCH 1211 - History of Architecture 1
- ARCH 2212 - History of Architecture 2
- ARCH 2411 - Building Technology 1
- ARCH 2412 - Building Technology 2
- ARCH 2611 - Computer Apps in Design 1
- ARCH 2711 - Design Studio 1

## The Major

### Entrance - Completion of Major Core (32 hours)

Candidacy Review and Portfolio Requirements - A Candidacy Review is required of all students intending to major in Architecture. Admission to the University of Memphis and completion of the major core do not guarantee placement in the program. Admission is selective and is based on a portfolio evaluation reflecting professional standards and expectations of the major. A portfolio that includes but is not limited to works from the major core courses is required as part of the application. Guidelines and application forms for admission to the Architecture major are available in the department office and from faculty advisors. Consultation with a faculty advisor is recommended before or during portfolio preparation. Students may submit portfolios for review no earlier than the semester that Candidacy requirements are being completed.

Transfer students must meet entrance requirements of the major. After review, the department notifies the student of one of the following: (1) acceptance, (2) one semester acceptance on a probationary basis, (3) recommendation to correct the deficiencies and reapply, or (4) denial of admission. Permission to enroll in any 3000-4000 level Architecture course is based upon this review.

### Completion of Major (52 hours)

- ARCH 2612 - Computer Apps in Design 2
- ARCH 2712 - Design Studio 2
- ARCH 3221 - Determinants of Modern Design
- ARCH 3222 - Contemporary Architecture 1
- ARCH 3321 - Structural Design 1
- ARCH 3322 - Structural Design 2
- ARCH 3421 - Environmental Systems
- ARCH 3613 - Computer Apps in Design 3
- ARCH 3713 - Design Studio 3
- ARCH 3714 - Design Studio 4
- ARCH 4231 - Issues in City Building
- ARCH 4441 - Construction Documents
- ARCH 4715 - Design Studio 5
- ARCH 4716 - Design Studio 6

## Electives (3 hours)

Architecture, Interior Design, or open electives complete the 87 semester hours of course work. See advisor for details.

## Typical 4-Year Architecture Sequence

### Freshman Year

- ARCH 1112 - Architecture Graphics Studio
- ARCH 1120 - Intro to Architecture + Design
- ANTH 1200 - Cultural Anthropology
- ENGL 1010 - English Composition
- HIST 1110 - World Civilization I
- SOCI 1010 - Introduction to Sociology
- ARCH 1111 - Fundamentals of Design Studio
- ARCH 1113 - Design Visualization
- ARCH 1211 - History of Architecture 1
- ENGL 1020 - English Comp/Analysis
- HIST 1120 - World Civilization II
- MATH 1710 - College Algebra

Semester Totals 36 hrs

### Sophomore Year

- ARCH 2212 - History of Architecture 2
- ARCH 2411 - Building Technology 1
- ARCH 2611 - Computer Apps in Design 1
- ARCH 2711 - Design Studio 1
- COMM 2381 - Oral Communication
- ARCH 2412 - Building Technology 2
- ARCH 2612 - Computer Apps in Design 2
- ARCH 2712 - Design Studio 2
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American

Semester Totals 31 hrs

## Junior Year

- ARCH 3421 - Environmental Systems
- ARCH 3613 - Computer Apps in Design 3
- ARCH 3713 - Design Studio 3
- ARTH 2010 - World Art I

ARCH 3213

- ARCH 3431 - Professional Practice
- ARCH 3714 - Design Studio 4
- ARTH 2020 - World Art II

Semester Totals 28 hrs

## Senior Year

- ARCH 4441 - Construction Documents
- ARCH 4715 - Design Studio 5
  - ARCH elective (1-3)

Natural Science (4)\*\*

- ARCH 4421 - Sustainable Design
- ARCH 4716 - Design Studio 6
  - Natural Science (4)\*\*

Semester Totals 26 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

\*Must satisfy University General Education Program Requirement

**NOTES:** Students may take MATH 1730 or MATH 1830. See Architecture Academic Advisor.

\*\*In addition to PHYS 2010/PHYS 2011, students may take ESCI 1010, ESCI 1020, ESCI 1040 with appropriate lab to satisfy Natural Science requirement.



## Interior Design, (B.F.A.)

The Bachelor of Fine Arts with a major in Interior Design is a professional degree and is fully accredited by the Council for Interior Design Accreditation (CIDA).

**NOTE:** Before enrolling in any Architecture or Interior Design course, all applicants seeking admission to the B.F.A. with a major in Interior design must complete and submit to the Department of Architecture an application form, a writing assignment, and a portfolio of five representative works. These three components comprise the Incoming Evaluation for Interior Design and will be reviewed by a faculty committee. Applicants are accepted on the basis of potential in the field of interior design. After review, the department notifies the student of one of the following: (1) acceptance, (2) one semester acceptance on a probationary basis, (3) recommendation to correct the deficiencies and reapply, or (4) denial of admission. Permission to enroll in any Architecture or Interior Design courses for which a permit is required beyond first semester, first year is based upon this review. Contact the Department of Architecture for details and deadline.

Students transferring from another major or another institution who intend to pursue a B.F.A. degree with a major in Interior Design must complete the Department of Architecture Incoming Evaluation prior to enrolling in Architecture or Interior Design courses. Transfer students seeking advanced standing in the Interior Design major should submit a portfolio of work representing previously completed Interior Design studio work. The review committee will determine if the portfolio work is equivalent to comparable courses at the University of Memphis. Placement in the major is dependent upon the review. Even if admitted to advanced standing, the student may be required to remedy previous course deficiencies.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note: the following are specified by the department for this program:

### Social/Behavioral Sciences:

- ANTH 1200 - Cultural Anthropology
- and
- SOCI 1010

### Natural Science:

- ESCI 1010 - Weather and Climate
- or
- ESCI 1020 - Landforms
- or
- ESCI 1040 - Physical Geology plus lab

## Humanities:

- ARTH 2010 - World Art I
- and
- ARTH 2020 - World Art II

## History:

- HIST 1110 - World Civilization I
- and
- HIST 1120 - World Civilization II

## Mathematics:

- MATH 1710 - College Algebra

## The Major (79 hours)

### Major Foundations Core (32 hours)

- ARCH 1111 - Fundamentals of Design Studio
- ARCH 1112 - Architecture Graphics Studio
- ARCH 1113 - Design Visualization
- ARCH 1120 - Intro to Architecture + Design
- ARCH 1211 - History of Architecture 1
- ARCH 2212 - History of Architecture 2
- ARCH 2411 - Building Technology 1
- ARCH 2412 - Building Technology 2
- ARCH 2611 - Computer Apps in Design 1
- ARCH 2711 - Design Studio 1

## The Major

### Entrance

Completion of Major Foundations Core (30 hours)

## Candidacy Review and Portfolio Requirements

A Candidacy Review is required of all students intending to major in Interior Design. Admission to the University of Memphis and completion of the major core do not guarantee placement in the program. Admission is selective and is based on a portfolio evaluation reflecting professional standards and expectations of the major. A portfolio that includes but is not limited to works from the major core courses is required as part of the application. Guidelines and application forms for admission for the Interior Design major are available in the department office. Consultation with a faculty advisor is recommended before or during portfolio preparation. Students may submit portfolios for review no earlier than the semester that Candidacy requirements are being completed.

Transfer students must meet entrance requirements of the major. After review, the department notifies the student of one of the following: (1) acceptance, (2) one semester acceptance on a probationary basis, (3) recommendation to correct the deficiencies and reapply, or (4) denial of admission. Permission to enroll in any 3000-4000 level Architecture or Interior Design course is based upon this review.

## Completion of Major (47-49 hours)

- ARCH 2612 - Computer Apps in Design 2
- ARCH 2712 - Design Studio 2
- ARCH 3213 - Survey of Interiors+Furniture
- ARCH 3421 - Environmental Systems
- ARCH 3431 - Professional Practice
- ARCH 3613 - Computer Apps in Design 3
- ARCH 3713 - Design Studio 3
- ARCH 3714 - Design Studio 4
- ARCH 4421 - Sustainable Design
- ARCH 4441 - Construction Documents
- ARCH 4715 - Design Studio 5
- ARCH 4716 - Design Studio 6

## Electives (1-3 hours)

Architecture or approved open electives complete the 79 semester hours of course work. See advisor for details.

## Typical 4-Year Interior Design Sequence

### Freshman Year

- ARCH 1112 - Architecture Graphics Studio
- ARCH 1120 - Intro to Architecture + Design
- ANTH 1200 - Cultural Anthropology
- ENGL 1010 - English Composition
- HIST 1110 - World Civilization I
- SOCI 1010 - Introduction to Sociology
  
- ARCH 1111 - Fundamentals of Design Studio
- ARCH 1113 - Design Visualization
- ARCH 1211 - History of Architecture 1

- ENGL 1020 - English Comp/Analysis
- HIST 1120 - World Civilization II
- MATH 1710 - College Algebra

## Semester Totals 36 hrs

## Sophomore Year

- ARCH 2212 - History of Architecture 2
  - ARCH 2411 - Building Technology 1
  - ARCH 2611 - Computer Apps in Design 1
  - ARCH 2711 - Design Studio 1
  - COMM 2381 - Oral Communication
  - ARCH 2412 - Building Technology 2
  - ARCH 2612 - Computer Apps in Design 2
  - ARCH 2712 - Design Studio 2
  - ENGL 2201 - Literary Heritage
- OR
- ENGL 2202 - Lit Heritage: African-American

## Semester Totals 31 hrs

## Junior Year

- ARCH 3421 - Environmental Systems
- ARCH 3613 - Computer Apps in Design 3
- ARCH 3713 - Design Studio 3
- ARTH 2010 - World Art I
- ARCH 3213 - Survey of Interiors+Furniture
- ARCH 3431 - Professional Practice
- ARCH 3714 - Design Studio 4
- ARTH 2020 - World Art II

## Semester Totals 28 hrs

## Senior Year

- ARCH 4441 - Construction Documents
- ARCH 4715 - Design Studio 5
  - ARCH elective\*\*\* (3)
  - Natural Science\*\* (4)
- ARCH 4421 - Sustainable Design

- ARCH 4716 - Design Studio 6
  - Natural Science\*\* (4)

Semester Totals 25-27 hrs

Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement.

\*\*Natural \*\*Science (8 Credit hours required): ESCI 1010, ESCI 1020, ESCI 1040 (Must take 2 of these 3)

\*\*\*Elective must be 3000-4000 level with ARCH prefix.

A minimum of 42 upper division hours in the major required.

## Department of Art

The Bachelor of Fine Arts with a major in Art is a professional degree offering students the specialized training available in art schools, combined with the benefits of a broad liberal arts education.

Program objectives for the B.F.A. in Art are: (a) to develop a B.F.A. student who is capable of critical and analytical reasoning as a practicing art professional; (b) to provide students with a foundation for graduate or professional education; (c) to prepare students to join the community of artists at the local, national and international levels; (d) to acquire the knowledge to work comprehensively in the discipline or related discipline. The Department of Art welcomes qualified individuals who aspire to become practicing artists and designers. Professional art and design education is available in four concentration options: (1) Art Education; (2) Studio Arts; (3) Graphic Design; (4) Photography.

The Department also welcomes students considering a minor in Art or in Photography. Please see the Minors section following the listing of concentration requirements for the B.F.A. in Art.

Special requirements for the Art major are divided into five groups:

general education

foundation in art

art history

concentration area

electives to bring the total credit hours to 120 hours.

**Advanced Placement Credit:** Prior to registration, Advanced Placement portfolios should be reviewed in the Department of Art for consistency with the performance standards required of enrolled students. An A.P. portfolio with a score of three (3), four (4), or five (5) points on the General Portfolio or on the Drawing Portfolio will be reviewed for the possible award of three credit hours. If a student submits separate portfolios from the junior and senior years, a maximum of six credit hours may be awarded. For a grade of three (3) points on the Drawing Portfolio or three (3), four (4), or five (5) points on the General Portfolio, three hours of unassigned studio elective credit may be awarded. For a grade of four (4) or five (5) points in the Drawing Portfolio, three hours of credit in Art 1311 (Beginning Drawing) will be considered. Unassigned A.P. credit may be used to satisfy a University credit.

**Advising:** Student advising in the Department of Art is an essential support service that aids students in clarifying academic goals consistent with their interests, abilities, and resources. Academic advisors assist Art majors in the selection of appropriate courses and provide meaningful discussion regarding career goals, past academic experience, and future academic progress. Freshmen, transfer and returning students are encouraged to contact the Art Office (room 201, Jones Hall) to request an academic advisor. Assistance from an advisor does not relieve a student of the responsibility of studying the appropriate catalog (Catalog) and fulfilling all degree requirements.

**Transfer students** with more than 40 semester hours should see the CCFA Graduation Analyst (room 232, CFA Building) before seeing an Art advisor.

Before taking courses from another institution intended to apply towards the University of Memphis graduation, the student must obtain permission from the CCFA Dean.

**NOTES for Graphic Design Students:** Transfer students seeking advanced standing in the Graphic Design concentration should submit a portfolio of work representing previously completed Graphic Design studio work. The review committee will determine if the portfolio work is equivalent to comparable courses at the University of Memphis. Placement in the concentration is dependent upon the review. Even if admitted to advanced standing, the student may be required to remedy previous course deficiencies.

## Major

### Art - Art Education Concentration, (B.F.A.)

#### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that the Humanities category is satisfied for art students who meet all B.F.A. in Art requirements by taking two of the following three courses:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts
- And an approved literature course

#### The Major (79 hours)

##### Major Core (Foundation in Art) (12 hours)

- ART 1210 - Foundations Studio I
- ART 1215 - Foundations Studio II
- ART 1311 - Drawing I
- ART 1314 - Drawing II

## Concentrations

[Art majors must be formally accepted into a concentration. Admission to the University and completion of foundation art courses do not guarantee placement in a concentration. Admission is selective and is based on a portfolio evaluation that reflects professional standards and meets concentration expectations. Space availability may also affect admission decisions. A concentration entrance

application and a portfolio should be submitted upon completion of foundation courses (ART 1210, ART 1215, ART 1311, ART 1314) plus additional concentration-specific courses (see concentration areas for these courses). The portfolio includes, but is not limited to, artwork from these courses. Guidelines and application forms for concentration admission are available in the department office and from faculty advisors. Consultation with a faculty adviser is recommended before or during portfolio preparation. Transfer students must meet concentration entrance requirements. After review, the department notifies the student of one of the following: (1) acceptance, (2) recommendation to correct deficiencies and reapply, or (3) denial of admission.]

## Art Education (67 hours):

### Entrance (15 hours)

Students may submit portfolios for review no earlier than the semester that the entrance requirements are being completed.

- ART 3313 - Drawing And Composition
- ART 3411 - Art for Children
- ART 2351 - Intro to Printmaking
- ART 2511 - Sculpture I
- ART 2523 - Ceramics I

### Art History (3 hours)

2 upper division art history courses. Undergraduates in art education will need to take the following art history classes:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II (counted for General Education Program)
  - and ARTH elective (3)

### Completion of Concentration (43 hours)

- ART 3423 - Art Secondary Schools
- ART 4321 - Drawing and Painting I
- ART 4427 - Method/Materials Art Instruc
- ART 4441 - Art Ed Prof Seminar
- EDPR 2111 - Development Across Lifespan
- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- SPED 2000 - Foundation/Exceptional Learn
- ART 4912 - Art Education Residency II
- ART 4430 - Community Art Project
- ART 4440 - Analysis of Teaching
- ART 4914 - Art Education Residency I

## Art Electives (6 hours)

A studio specialty of three or four courses in the same field is also required; see adviser for details. All required 2000 level art courses must be completed before enrollment in 4000 level studio classes. Art electives complete the 79 semester hours of professional course work.

### Note:

See the introduction to the College of Communication and Fine Arts requirements at the Teacher Preparation section.

## Graduation

For the B.F.A. in Art, a total of 120 semester hours is required, 85 of which must be in professional course work that includes ARTH 2101 and 2102. A minimum of 42 upper division semester hours is required for the degree and a minimum grade of "C" is required for all courses in the Art major.

## Typical 4-Year Art Education Concentration Sequence

### Freshman Year

- ART 1210 - Foundations Studio I
- ART 1311 - Drawing I
- ENGL 1010 - English Composition
  - Math\* (3)
  - Natural Science\* (4)
- ART 1215 - Foundations Studio II
- ART 1314 - Drawing II
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences\* (3)
  - Natural Science\* (4)

Semester Totals 32 hrs

### Sophomore Year

- ART 2511 - Sculpture I
- COMM 2381 - Oral Communication
- ARTH 2010 - World Art I
- SPED 2000 - Foundation/Exceptional Learn
- EDPR 2111 - Development Across Lifespan



- ART 2523 - Ceramics I
- ART 2351 - Intro to Printmaking
- ARTH 2020 - World Art II
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American
  
- ART 2331 - Painting I

Semester Totals 30 hrs

## Junior Year

- UD ARTH elective (3)
- History\* (3)
- ART 3423 - Art Secondary Schools
  - Social/Behavioral Science\* (3)
- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- ART 3411 - Art for Children
  - UD ARTH elective (3)
  - ART elective (3)
- ART 4321 - Drawing and Painting I
- ART 4430 - Community Art Project
  - History\* (3)

Semester Totals 31 hrs

## Senior Year

- ART elective (3)
- ART 4914 - Art Education Residency I
- ART 4427 - Method/Materials Art Instruc
- ART 4440 - Analysis of Teaching
- ART 4441 - Art Ed Prof Seminar
  - ICL 4912 (9)

Semester Totals 27 hrs

Total Hours: 120

Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Art - Graphic Design Concentration, (B.F.A.)**

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that the Humanities category is satisfied for art students who meet all B.F.A. in Art requirements by taking two of the following three courses:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts
  - And an approved literature course

### The Major (79 hours)

#### Major Core (Foundation in Art) (12 hours)

- ART 1210 - Foundations Studio I
- ART 1215 - Foundations Studio II
- ART 1311 - Drawing I
- ART 1314 - Drawing II

### Concentrations

[Art majors must be formally accepted into a concentration. Admission to the University and completion of foundation art courses do not guarantee placement in a concentration. Admission is selective and is based on a portfolio evaluation that reflects professional standards and meets concentration expectations. Space

availability may also affect admission decisions. A concentration entrance application and a portfolio should be submitted upon completion of foundation courses (ART 1210, ART 1215, ART 1311, ART 1314) plus additional concentration-specific courses (see concentration areas for these courses). The portfolio includes, but is not limited to, artwork from these courses. Guidelines and application forms for concentration admission are available in the department office and from faculty advisors. Consultation with a faculty adviser is recommended before or during portfolio preparation. Transfer students must meet concentration entrance requirements. After review, the department notifies the student of one of the following: (1) acceptance, (2) recommendation to correct deficiencies and reapply, or (3) denial of admission.]

## Graphic Design (67 hours):

### Entrance (9 hours)

Students may submit portfolios for review no earlier than the semester that the entrance requirements are being completed. Enrollment in 3000 or 4000 level graphic design courses is based upon this review.

- ART 2213 - Typographic Design I
- ART 2219 - Visual Thinking
- ART 2223 - Computer Assisted Graphic Des

### Art History (9 hours)

- ART 4224 - History Graphic Design
  - 2 upper division art history courses

### Note:

COMM 4850 may be substituted for one art history course.

### Completion of Concentration (40 hours)

- ART 2701 - Photography I
- ART 3213 - Typographic Design II
- ART 3219 - Image Design
- ART 3222 - Graphic Design Method
- ART 3227 - Electronic Pre-Press Prod
- ART 3313 - Drawing And Composition

or

- ART 3314 - Drawing And Concepts
- ART 4211 - Writing/Design Process
- ART 4221 - Graphic Design/Print Comm
- ART 4222 - Interactive Mltimd/Graphic Des
- ART 4223 - Special Studies/Graphic Des (may be taken more than once)
- ART 4233 - Design Practice Studio (may be taken more than once)
- ART 4235 - Graphic Design Portfolio
- ART 4621 - Workshop in Art I
- ART 4230 - Graphic Design Internship

## Art Electives (9 hours)

Art electives complete the 79 hours of professional course work.

## Graduation

For the B.F.A. in Art, a total of 120 semester hours is required, 85 of which must be in professional course work that includes ARTH 2101 and 2102. A minimum of 42 upper division semester hours is required for the degree and a minimum grade of "C" is required for all courses in the Art major.

## Typical 4-Year Graphic Design Concentration Sequence

### Freshman Year

- ART 1210 - Foundations Studio I
- ART 1311 - Drawing I
- ARTH 2010 - World Art I
- ENGL 1010 - English Composition
  - MATH\* (3)
- ART 1215 - Foundations Studio II
- ART 1314 - Drawing II
- ENGL 1020 - English Comp/Analysis
- ART 2223 - Computer Assisted Graphc Des
- ARTH 2020 - World Art II

Semester Totals 30 hrs

### Sophomore Year

- ART 2213 - Typographic Design I

- ART 2701 - Photography I
- ART 2219 - Visual Thinking
  - ARTH elective (3)
  - Natural Sciences\* (4)
- ART 3213 - Typographic Design II
- ART 3219 - Image Design
  - ART elective (3)
- COMM 2381 - Oral Communication
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American

## Semester Totals 31 hrs

## Junior Year

- ART elective (3)
  
- ART 3313 - Drawing And Composition
  
- or
  
- ART 3314 - Drawing And Concepts
  
- ART 3227 - Electronic Pre-Press Prod
  - ARTH elective (3)
  - Natural Science\* (4)
- ART 3222 - Graphic Design Method
- ART 4221 - Graphic Design/Print Comm
- ART 4224 - History Graphic Design
  - Social/Behavioral Sciences\* (3)
  - History (3)

## Semester Totals 31 hrs

## Senior Year

- ART 4233 - Design Practice Studio
- ART 4222 - Interactive Mltimd/Graphic Des
- ART 4211 - Writing/Design Process
- ART 4223 - Special Studies/Graphic Des
  - History\* (3)

### Graphic Design Elective

- ART 4235 - Graphic Design Portfolio
- ART 4621 - Workshop in Art I
  - Social/Behavioral Sciences\* (3)
  - ART elective (3)

Semester Totals 28 hrs

Total Hours: 120

Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Art - Photography Concentration, (B.F.A.)**

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that the Humanities category is satisfied for art students who meet all B.F.A. in Art requirements by taking two of the following three courses:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts
  - And an approved literature course

### The Major (79 hours)

#### Major Core (Foundation in Art) (12 hours)

- ART 1210 - Foundations Studio I
- ART 1215 - Foundations Studio II
- ART 1311 - Drawing I
- ART 1314 - Drawing II

### Concentrations

[Art majors must be formally accepted into a concentration. Admission to the University and completion of foundation art courses do not guarantee placement in a concentration. Admission is selective and is based on a portfolio evaluation that reflects professional standards and meets concentration expectations. Space

availability may also affect admission decisions. A concentration entrance application and a portfolio should be submitted upon completion of foundation courses (ART 1210, ART 1215, ART 1311, ART 1314) plus additional concentration-specific courses (see concentration areas for these courses). The portfolio includes, but is not limited to, artwork from these courses. Guidelines and application forms for concentration admission are available in the department office and from faculty advisors. Consultation with a faculty adviser is recommended before or during portfolio preparation. Transfer students must meet concentration entrance requirements. After review, the department notifies the student of one of the following: (1) acceptance, (2) recommendation to correct deficiencies and reapply, or (3) denial of admission.]

## Photography (67 hours):

### Entrance (18 hours)

Students may submit portfolios for review no earlier than the semester that the entrance requirements are being completed. Enrollment in 3000 or 4000 level studio courses is based upon this review.

- ART 2301 - Digital Art I
- ART 2331 - Painting I
- or
- ART 2351 - Intro to Printmaking
- ART 2511 - Sculpture I
- or
- ART 2523 - Ceramics I
  - ART 2700
- or
- ART 2701 - Photography I
- ART 2702 - Photography II
- ART 3701 - Photography III

### Art History (9 hours)

- ARTH 4155 - High Modern Art
- ARTH 4157 - Contemp Art/Theory/Criticism
- ARTH 4721 - History Photography I
- ARTH 4722 - History Photography II

## Completion of Concentration (31 hours)

Five 4000-level photography courses, plus

- ART 4650 - Profess Art Practices
- ART 4711 - Adv Photography Seminar
- ART 4712 - Photography Portfolio Seminar
- ART 4990 - Senior Thesis Preparation
- ART 4995 - Senior Thesis Exhibition
  - Photo Lab Management

## Art Electives (9 hours)

Art electives complete the 79 semester hours of course work.

## Graduation

For the B.F.A. in Art, a total of 120 semester hours is required, 85 of which must be in professional course work that includes ARTH 2101 and 2102. A minimum of 42 upper division semester hours is required for the degree and a minimum grade of "C" is required for all courses in the Art major.

## Art - Studio Arts Concentration, (B.F.A.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that the Humanities category is satisfied for art students who meet all B.F.A. in Art requirements by taking two of the following three courses:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts
  - And an approved literature course

## The Major (79 hours)

### Major Core (Foundation in Art) (12 hours)

- ART 1210 - Foundations Studio I
- ART 1215 - Foundations Studio II



- ART 1311 - Drawing I
- ART 1314 - Drawing II

## Concentrations

[Art majors must be formally accepted into a concentration. Admission to the University and completion of foundation art courses do not guarantee placement in a concentration. Admission is selective and is based on a portfolio evaluation that reflects professional standards and meets concentration expectations. Space availability may also affect admission decisions. A concentration entrance application and a portfolio should be submitted upon completion of foundation courses (ART 1210, ART 1215, ART 1311, ART 1314) plus additional concentration-specific courses (see concentration areas for these courses). The portfolio includes, but is not limited to, artwork from these courses. Guidelines and application forms for concentration admission are available in the department office and from faculty advisors. Consultation with a faculty adviser is recommended before or during portfolio preparation. Transfer students must meet concentration entrance requirements. After review, the department notifies the student of one of the following: (1) acceptance, (2) recommendation to correct deficiencies and reapply, or (3) denial of admission.]

## Studio Arts (72 hours):

The four fields are interdependent and share the following requirements:

### Entrance (9 hours)

Students may submit portfolios for review no earlier than the semester that the entrance requirements are being completed.

Three courses selected from

- ART 2301 - Digital Art I
- ART 2331 - Painting I
- ART 2351 - Intro to Printmaking
- ART 2511 - Sculpture I
- ART 2523 - Ceramics I
- ART 2701 - Photography I

### Art History (6 hours)

- ARTH 4155 - High Modern Art

or

- ARTH 4157 - Contemp Art/Theory/Criticism
  - Plus 3 hours in upper division art history courses

## Completion of Concentration (46 hours)

Remaining lower division courses (see Entrance), plus upper division studio courses:

- ART 3313 - Drawing And Composition
- ART 3314 - Drawing And Concepts
- ART 4650 - Profess Art Practices
- ART 4990 - Senior Thesis Preparation
- ART 4995 - Senior Thesis Exhibition
- ART 4622 - Workshop in Art II

## 8 Other Courses From:

### Ceramics:

- ART 3522 - Kilns/Glazes/Tech Skill
- ART 3524 - Ceramics II
- ART 4521 - Ceramics III
- ART 4522 - Ceramics IV

### Painting:

- ART 3332 - Painting II
- ART 4321 - Drawing and Painting I
- ART 4322 - Drawing and Painting II
- ART 4331 - Painting III
- ART 4332 - Painting IV

### Printmaking:

- ART 2352 - Intro Intaglio/Lithography
- ART 3351 - Intaglio Printmaking
- ART 3352 - Lithography
- ART 4351 - Adv Printmaking I
- ART 4352 - Adv Printmaking II
- ART 4353 - Computer Image Print/Photo I
- ART 4354 - Computer Image Print/Photo II

### Sculpture:

- ART 3511 - Sculpture II
- ART 3512 - Sculpture III
- ART 4511 - Sculpture IV
- ART 4512 - Sculpture V

### Independent Studies and Book Arts:

- ART 4621 - Workshop in Art I
- ART 4314 - Art of the Book

### Note

All 2000 level art courses must be completed before enrollment in 4000 level studio courses.

### Art Electives (6 hours)

Art electives complete the 79 semester hours of professional course work.

### Graduation

For the B.F.A. in Art, a total of 120 semester hours is required, 85 of which must be in professional course work that includes ARTH 2101 and 2102. A minimum of 42 upper division semester hours is required for the degree and a minimum grade of "C" is required for all courses in the Art major.

### Typical 4-Year Studio Arts Concentration Sequence

#### Freshman Year

- ART 1210 - Foundations Studio I
- ART 1311 - Drawing I
- ARTH 2010 - World Art I
- ENGL 1010 - English Composition
  - MATH\* (3)
- ART 1215 - Foundations Studio II
- ART 1314 - Drawing II
- ENGL 1020 - English Comp/Analysis
- ART 2701 - Photography I
- ARTH 2020 - World Art II

## Semester Totals 30 hrs

### Sophomore Year

- ART 2331 - Painting I
- ART 2301 - Digital Art I
- ART 2511 - Sculpture I
  
- ARTH 4155 - High Modern Art
  
- or
  
- ARTH 4157 - Contemp Art/Theory/Criticism
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American
  
- COMM 2381 - Oral Communication
- ART 3313 - Drawing And Composition
- ART 2351 - Intro to Printmaking
- ART 2523 - Ceramics I
  - ARTH elective (3)
  - Natural Science\* (4)

## Semester Totals 34 hrs

Submit portfolio for Concentration Entrance

### Junior Year

- ART 3314 - Drawing And Concepts
  - ART (course-1) (3)
  - ART (course-2) (3)
  - ART (course-3) (3)
  - Natural Science\* (4)
  - ART (course-4) (3)
  - ART (course-5) (3)
  - ART (course-6) (3)
  - Social/Behavioral Sciences\* (3)
  - History\* (3)

Semester Totals 31 hrs

## Senior Year

- ART (course-7) (3)
- ART 4650 - Profess Art Practices
- ART 4990 - Senior Thesis Preparation
- ART 4622 - Workshop in Art II
  - History\* (3)
- ART 4995 - Senior Thesis Exhibition
  - ART (studio E1) (3)
  - ART (studio E2) (3)
  - Social/Behavioral Sciences\* (3)

Semester Totals 25 hrs

Total Hours: 120

Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Art History - African Diaspora Arts and Visual Culture Concentration, (B.A.)**

### Art History Major (B.A.)

Program objectives for a B.A. in Art History are: (a) to understand the scope of art in human culture; (b) to acquire the ability to write about art clearly and meaningfully; (c) to acquire knowledge of diverse visual cultures; (d) to acquire the ability to read, write and understand the major terms and concepts of art history; (e) to conduct original research in the discipline.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## Bachelor of Arts (B.A.) (6-9 hours)

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

### The Major (42 hours)

Completion of 36 semester hours in art history courses, including two courses selected from

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts (see concentration requirements for specific selection)
  - nine courses selected from the ARTH 4000-level series (see concentration requirements for specific selections)
- ARTH 4195 - Proseminar Art History
  - A minimum of 6 hours of studio art is also required.

### African Diaspora Arts and Visual Culture

African Diaspora Arts and Visual Culture is an interdisciplinary area of concentration within the B.A. in Art History. Its mission is to introduce students to the theoretical frameworks and methodologies for approaching the study of the diverse arts and visual cultures of peoples of African descent. Art and visual culture are examined in relation to the broader African diaspora, whereby students acquire analytical skills that enhance their understanding of historical and contemporary issues from a global perspective. Students supplement the Art History curriculum with courses drawn from a variety of disciplines. The program objectives for the concentration in African Diaspora Arts and Visual Culture emphasize research employing original sources, the ability to think and read critically, the skill of writing meaningfully, and the application of acquired knowledge in the context of cultural institutions such as museums, galleries, and historical sites.

### Within the Requirements for the Major in Art History

Within the requirements for the major in Art History, students in this concentration need to complete:

- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts
- ARTH 4184 - Arts of Colonialism/Empire
- ARTH 4185 - African American Art
- ARTH 4186 - Afr American Diaspora Cinema
- ARTH 4187 - Af Am Diaspora Photo Culture

### Two Courses From

- ARTH 4381 - Art Curatorial Techniques
- ARTH 4386 - Introduction to Museums
- ARTH 4660 - Museum Collections
- ARTH 4662 - Museum Exhibitions

## In Addition to 9 Hours ARTH 4000-level Series

Students need to take two courses outside of the Department of Art selected from the following:

- ANTH 4120 - Africa's New World Comm
- ENGL 3325 - Af/Am Lit thru Harlem Ren
- ENGL 3326 - Af/Am Lit since Harlem Ren
- ENGL 4373 - Af/Am Author since Harlem Ren
- HIST 4051 - Special Topics in History
- HIST 4222 - Race/Class in Latin America
- HIST 4288 - West Africa/Diaspora
- HIST 4879 - Africa to the Americas
- SOCI 4420 - Racial Inequality
  - SOCI 4904
  - SOCI 4905

## Electives (18-19 hours)

Completion of courses to bring the total number of hours to 120 semester hours.

## Typical 4-Year Art History Sequence

### Freshman Year

- ARTH 2010 - World Art I \*\*\*
- or
- ARTH 2030 - Visual Studies/Indigenous Arts \*\*\*
- ENGL 1010 - English Composition
  - Humanities (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Elective (3)
  - ARTH 2010 - World Art I (3)
- or
- ARTH 2020 - World Art II
- ENGL 1020 - English Comp/Analysis
  - Fine Arts (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Studio elective (3)

### Semester Totals 30 hrs

## Sophomore Year

- ARTH elective (3)
- ARTH elective (3)
- Foreign Language/B.A. (3)
- MATH (3) \*
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - ARTH elective (3)
  - ARTH elective (3)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - History (3) \*

Semester Totals 33 hrs

## Junior Year

- ARTH elective (3)
- Elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*
- ARTH elective (3)
- ARTH elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*

Semester Totals 26 hrs

## Senior Year

- ARTH elective (3)
- ARTH elective (3)
- UD Elective (3)
- UD Elective (3)
- Studio elective (3)
- History (3) \*
- ARTH 4195 - Proseminar Art History
  - Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - Elective (1)



Semester Totals 31 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Students presenting a language to meet University admission requirements cannot receive credit for 1010 in that language.

\*\*\*If student chooses ARTH 2030, then must also take an additional General Education Humanities/Fine Arts course instead of an elective.

## **Art History - Ancient Egyptian Art and Culture Concentration, (B.A.)**

### **Art History Major (B.A.)**

Program objectives for a B.A. in Art History are: (a) to understand the scope of art in human culture; (b) to acquire the ability to write about art clearly and meaningfully; (c) to acquire knowledge of diverse visual cultures; (d) to acquire the ability to read, write and understand the major terms and concepts of art history; (e) to conduct original research in the discipline.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

### **Bachelor of Arts (B.A.) (6-9 hours)**

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

### **The Major (42 hours)**

Completion of 36 semester hours in art history courses, including two courses selected from

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts (see concentration requirements for specific selection)

- nine courses selected from the ARTH 4000-level series (see concentration requirements for specific selections)
- ARTH 4195 - Proseminar Art History
  - A minimum of 6 hours of studio art is also required.

## Ancient Egyptian Art and Culture

The study of Ancient Egyptian art is by its very nature interdisciplinary, combining elements of visual analysis and art historical methods with textual evidence and archaeological and epigraphic fieldwork. This concentration will introduce students, at the undergraduate level, to various aspects of ancient Egyptian culture, focusing primarily on its art and its language and literature. The Egyptian objects currently in the collection of the Institute of Egyptian Art & Archaeology, both on display and in storage, provide an invaluable asset to this program and will greatly enhance the students' learning experience.

## Within the Requirements for the Major in Art History

Within the requirements for the major in Art History, students in this concentration need to complete:

- ARTH 2010 - World Art I
- ARTH 2030 - Visual Studies/Indigenous Arts
- ARTH 4112 - Egypt Art-Old Kingdom
- ARTH 4113 - Egypt Art-New Kingdom

## Two Courses of

Two semesters of hieroglyphs (arranged as ARTH 4197) must be taken during the student's final year of study and do not meet the Foreign Language requirement for the B.A. Students in this concentration are encouraged to take either French or German to meet their Foreign Language requirement.

- ARTH 4197 - Adv Indiv Research/ARTH (two semesters of hieroglyphs)

## Two Courses Selected From

- ARTH 4119 - Late Antique/Islamic Art/Egypt
- ARTH 4121 - Ancient Art Near East
- ARTH 4123 - Greek Art
- ARTH 4124 - Roman Art
- ARTH 4125 - Art/Archaeology Pompeii
- ARTH 4183 - Visual Arts of Africa

## In Addition to 9 Hours ARTH 4000-level Series

Students need to take two courses outside of the Department of Art, including

- HIST 4323 - Egypt of the Pharaohs

## Plus One of the Following:

- ANTH 3300 - Rise To Civilization
- ANTH 4352 - Old World Archaeology (ESCI 4352)
- HIST 3320 - Ancient World
- HIST 4068 - Special Topics in History
- HIST 4320 - Ancient Near East
- HIST 4321 - Greek Experience
- HIST 4322 - The Roman World
- JDST 4841 - Biblical Archaeology (ANTH 4841/ESCI 4841)

## Electives (18-19 hours)

Completion of courses to bring the total number of hours to 120 semester hours.

## Typical 4-Year Art History Sequence

### Freshman Year

- ARTH 2010 - World Art I \*\*\*
- or
- ARTH 2030 - Visual Studies/Indigenous Arts \*\*\*
- ENGL 1010 - English Composition
  - Humanities (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Elective (3)
  - ARTH 2010 - World Art I (3)
- or
- ARTH 2020 - World Art II
- ENGL 1020 - English Comp/Analysis
  - Fine Arts (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Studio elective (3)

### Semester Totals 30 hrs

### Sophomore Year

- ARTH elective (3)

- ARTH elective (3)
- Foreign Language/B.A. (3)
- MATH (3) \*
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - ARTH elective (3)
  - ARTH elective (3)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - History (3) \*

Semester Totals 33 hrs

## Junior Year

- ARTH elective (3)
- Elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*
- ARTH elective (3)
- ARTH elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*

Semester Totals 26 hrs

## Senior Year

- ARTH elective (3)
- ARTH elective (3)
- UD Elective (3)
- UD Elective (3)
- Studio elective (3)
- History (3) \*
- ARTH 4195 - Proseminar Art History
  - Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - Elective (1)

Semester Totals 31 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Students presenting a language to meet University admission requirements cannot receive credit for 1010 in that language.

\*\*\*If student chooses ARTH 2030, then must also take an additional General Education Humanities/Fine Arts course instead of an elective.

## Art History - European Tradition in Art Concentration, (B.A.)

### Art History Major (B.A.)

Program objectives for a B.A. in Art History are: (a) to understand the scope of art in human culture; (b) to acquire the ability to write about art clearly and meaningfully; (c) to acquire knowledge of diverse visual cultures; (d) to acquire the ability to read, write and understand the major terms and concepts of art history; (e) to conduct original research in the discipline.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### Bachelor of Arts (B.A.) (6-9 hours)

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

### The Major (42 hours)

Completion of 36 semester hours in art history courses, including two courses selected from

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts (see concentration requirements for specific selection)
  - nine courses selected from the ARTH 4000-level series (see concentration requirements for specific selections)
- ARTH 4195 - Proseminar Art History
  - A minimum of 6 hours of studio art is also required.

## European Tradition in Art

The European tradition is an area of concentration within the B.A. in Art History, whose mission is to introduce students to the visual cultures of the Western world, from antiquity to the modern (and postmodern) age. The concentration offers coursework covering the diverse visual traditions and the variety of historical periods associated with Europe and the Americas. The concentration emphasizes that its students acquire the ability to read, write and understand the major concepts of art history and to conduct original research in the discipline.

### Within the Requirements for the Major in Art History,

Within the requirements for the major in Art History, students in this concentration need to complete:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II

### One Course Each from Five of the Following Art Historical Categories

#### Classical:

- ARTH 4123 - Greek Art
- ARTH 4124 - Roman Art
- ARTH 4125 - Art/Archaeology Pompeii

#### Medieval:

- ARTH 4129 - Ancient/Medieval Architecture
- ARTH 4130 - Art/Medieval World
- ARTH 4131 - Art/Early Middle Ages
- ARTH 4134 - Art/High Middle Ages

#### Renaissance-Baroque:

- ARTH 4141 - Early Renaissance Italy
- ARTH 4142 - North Renaissance Art
- ARTH 4143 - High Renaissance Italy
- ARTH 4146 - Baroque Art

#### Modern European:

- ARTH 4148 - Neo-Class/Romanticism
- ARTH 4149 - Realism & Impressionism
- ARTH 4152 - Early Modern Art
- ARTH 4153 - Cubism through Surrealism
- ARTH 4721 - History Photography I

## American:

- ARTH 4158 - Modern Architecture
- ARTH 4166 - History of American Art
- ARTH 4185 - African American Art
- ARTH 4722 - History Photography II

## Contemporary:

- ARTH 4155 - High Modern Art
- ARTH 4157 - Contemp Art/Theory/Criticism

## Additional Courses

An additional 9 hours ARTH 4000-level series is required. A maximum of two courses from the Museum Studies sequence (ARTH 4381, ARTH 4386, ANTH 4660, or ANTH 4662) may be selected when meeting the remaining 9 hours ARTH 4000-level series.

## Electives (18-19 hours)

Completion of courses to bring the total number of hours to 120 semester hours.

## Typical 4-Year Art History Sequence

### Freshman Year

- ARTH 2010 - World Art I \*\*\*
- or
- ARTH 2030 - Visual Studies/Indigenous Arts \*\*\*
- ENGL 1010 - English Composition
  - Humanities (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Elective (3)
  - ARTH 2010 - World Art I (3)
- or
- ARTH 2020 - World Art II
- ENGL 1020 - English Comp/Analysis
  - Fine Arts (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*

- Studio elective (3)

## Semester Totals 30 hrs

## Sophomore Year

- ARTH elective (3)
- ARTH elective (3)
- Foreign Language/B.A. (3)
- MATH (3) \*
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - ARTH elective (3)
  - ARTH elective (3)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - History (3) \*

## Semester Totals 33 hrs

## Junior Year

- ARTH elective (3)
- Elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*
- ARTH elective (3)
- ARTH elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*

## Semester Totals 26 hrs

## Senior Year

- ARTH elective (3)
- ARTH elective (3)
- UD Elective (3)
- UD Elective (3)
- Studio elective (3)
- History (3) \*



- ARTH 4195 - Proseminar Art History
  - Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - Elective (1)

Semester Totals 31 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Students presenting a language to meet University admission requirements cannot receive credit for 1010 in that language.

\*\*\*If student chooses ARTH 2030, then must also take an additional General Education Humanities/Fine Arts course instead of an elective.

## Art History, (B.A.)

Program objectives for a B.A. in Art History are: (a) to understand the scope of art in human culture; (b) to acquire the ability to write about art clearly and meaningfully; (c) to acquire knowledge of diverse visual cultures; (d) to acquire the ability to read, write and understand the major terms and concepts of art history; (e) to conduct original research in the discipline.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### Bachelor of Arts (B.A.) (6-9 hours)

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

### The Major (42 hours)

Completion of 36 semester hours in art history courses, including two courses selected from

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts (see concentration requirements for specific selection)
  - nine courses selected from the ARTH 4000-level series (see concentration requirements for specific selections)
- ARTH 4195 - Proseminar Art History
  - A minimum of 6 hours of studio art is also required.

## Electives (18-19 hours)

Completion of courses to bring the total number of hours to 120 semester hours.

## Typical 4-Year Art History Sequence

### Freshman Year

- ARTH 2010 - World Art I \*\*\*
- or
- ARTH 2030 - Visual Studies/Indigenous Arts \*\*\*
- ENGL 1010 - English Composition
  - Humanities (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Elective (3)
  - ARTH 2010 - World Art I (3)
- or
- ARTH 2020 - World Art II
- ENGL 1020 - English Comp/Analysis
  - Fine Arts (3) \*
  - Foreign Language/B.A. (or elective) (3) \*\*
  - Studio elective (3)

### Semester Totals 30 hrs

### Sophomore Year

- ARTH elective (3)
- ARTH elective (3)
- Foreign Language/B.A. (3)
- MATH (3) \*
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- COMM 2381 - Oral Communication
  - ARTH elective (3)
  - ARTH elective (3)
  - Foreign Language/B.A. (3)
  - Elective (3)
  - History (3) \*

## Semester Totals 33 hrs

## Junior Year

- ARTH elective (3)
- Elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*
- ARTH elective (3)
- ARTH elective (3)
- Social/Behavioral Sciences (3) \*
- Natural Science (4) \*

## Semester Totals 26 hrs

## Senior Year

- ARTH elective (3)
- ARTH elective (3)
- UD Elective (3)
- UD Elective (3)
- Studio elective (3)
- History (3) \*
- ARTH 4195 - Proseminar Art History
  - Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - UD Elective (3)
  - Elective (1)

Semester Totals 31 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Students presenting a language to meet University admission requirements cannot receive credit for 1010 in that language.

\*\*\*If student chooses ARTH 2030 , then must also take an additional General Education Humanities/Fine Arts course instead of an elective.

## **Art, (B.F.A.)**

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that the Humanities category is satisfied for art students who meet all B.F.A. in Art requirements by taking two of the following three courses:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts
  - And an approved literature course

### The Major (79 hours)

#### Major Core (Foundation in Art) (12 hours)

- ART 1210 - Foundations Studio I
- ART 1215 - Foundations Studio II
- ART 1311 - Drawing I
- ART 1314 - Drawing II

### Concentrations

[Art majors must be formally accepted into a concentration. Admission to the University and completion of foundation art courses do not guarantee placement in a concentration. Admission is selective and is based on a portfolio evaluation that reflects professional standards and meets concentration expectations. Space availability may also affect admission decisions. A concentration entrance application and a portfolio should be submitted upon completion of foundation courses (ART 1210, ART 1215, ART 1311, ART 1314) plus additional concentration-specific courses (see concentration areas for these courses). The portfolio includes, but is not limited to, artwork from these courses. Guidelines and application forms for concentration admission are available in the department office and from faculty advisors. Consultation with a faculty adviser is recommended before or during portfolio preparation. Transfer students must meet concentration entrance requirements. After review, the department notifies the student of one of the following: (1) acceptance, (2) recommendation to correct deficiencies and reapply, or (3) denial of admission.]

## Graduation

For the B.F.A. in Art, a total of 120 semester hours is required, 85 of which must be in professional course work that includes ARTH 2101 and 2102. A minimum of 42 upper division semester hours is required for the degree and a minimum grade of "C" is required for all courses in the Art major.

## Minor

### Art History Minor

#### Requirements

Completion of 18 semester hours in Art History, including two courses selected from:

- ARTH 2010 - World Art I
- ARTH 2020 - World Art II
- ARTH 2030 - Visual Studies/Indigenous Arts
  - 12 semester hours from the ARTH 4000-level courses.

## Photography Minor

### Requirements

Completion of 18 semester hours as follows:

- ART 2700
- or
- ART 2701 - Photography I
- ART 2702 - Photography II
- ART 3701 - Photography III
- two 4000-level photography courses
- and
- ARTH 4721 - History Photography I
- or
- ARTH 4722 - History Photography II

## Studio Arts Minor

### Requirements

Completion of 24 semester hours in art courses, 9 of which must be from the upper division. Courses selected for the minor are to be approved by the advisor who will be assigned by the department chair.

## Department of Communication

The program objectives for a B.A. in Communication are linked to five key areas:

**Performance:** Students will demonstrate competence in producing messages for different purposes, audiences, and contexts.

**Analysis and Critical Thinking:** Students will analyze, interpret and evaluate messages across various forms and contexts.

**Knowledge:** Students will know the development of communication studies from its rhetorical roots through social scientific perspectives to contemporary critical approaches.

**Ethics:** Students will articulate ethical principles and apply them in diverse communication contexts.

**Mediated Communication:** Students will understand the impact of media forms on communication processes.

## Major

### Communication, (B.A.)

The program objectives for a B.A. in Communication are linked to five key areas:

1. **Performance:** Students will demonstrate competence in producing messages for different purposes, audiences, and contexts.
2. **Analysis and Critical Thinking:** Students will analyze, interpret and evaluate messages across various forms and contexts.
3. **Knowledge:** Students will know the development of communication studies from its rhetorical roots through social scientific perspectives to contemporary critical approaches.
4. **Ethics:** Students will articulate ethical principles and apply them in diverse communication contexts.
5. **Mediated Communication:** Students will understand the impact of media forms on communication processes.

### University General Education Program (41 hours)

See University General Education Program for the University General Education Program requirements.

### Bachelor of Arts (B.A.) (6-9 hours)

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

### The Major (33-37 hours)

### Major Core (6 hours)

All students must take

- COMM 2100 - Communication Inquiry
- COMM 2381 - Oral Communication (included in the University General Education Program)

### Note:

A 2.0 cumulative GPA is required for all courses completed in the major. In addition, all students must fulfill the requirements for one of the following concentrations:

## Concentrations (27-31hours):

- a. Communication Studies
- b. Film and Video Production

## Electives (12 - 20 hours)

Completion of courses to bring the total to 120 semester hours.

## Honors Program

To be eligible for admission to the Communication Honors program a student must meet the following requirements: (1) declare a major in Communication, (2) have completed 12 hours of Communication coursework, (3) have Department of Communication faculty member as an adviser, and (4) make an honors application to the adviser. Applications may be obtained from the director of the honors program or from the department office.

To be awarded departmental honors at graduation with the designation "With Honors in Communication," a student must fulfill the following requirements: (1) maintain a 3.5 GPA in communication coursework, (2) maintain a 3.5 GPA overall, (3) complete all Department of Communication major requirements, (4) complete an independent thesis or an independent film/video project sponsored by a Department of Communication faculty member consisting of six hours over two semesters: three hours in research preparation (COMM 3330, COMM 4381, or COMM 4891), and three hours in completing the thesis project (COMM 4999), and (5) successful defense of the thesis.

## Communication, Communication Studies Concentration (B.A.)

### Communication Major (B.A.)

The program objectives for a B.A. in Communication are linked to five key areas:

1. **Performance:** Students will demonstrate competence in producing messages for different purposes, audiences, and contexts.
2. **Analysis and Critical Thinking:** Students will analyze, interpret and evaluate messages across various forms and contexts.
3. **Knowledge:** Students will know the development of communication studies from its rhetorical roots through social scientific perspectives to contemporary critical approaches.
4. **Ethics:** Students will articulate ethical principles and apply them in diverse communication contexts.
5. **Mediated Communication:** Students will understand the impact of media forms on communication processes.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.



## Bachelor of Arts (B.A.) (6-9 hours)

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

## The Major (33-37 hours)

### Major Core (6 hours)

All students must take

- COMM 2100 - Communication Inquiry
- COMM 2381 - Oral Communication (included in the University General Education Program)

### Note

A 2.0 cumulative GPA is required for all courses completed in the major. In addition, all students must fulfill the requirements for the following concentration:

### Communication Studies (31 hours):

- COMM 2101 - Media and Info Literacy
- COMM 3001 - Rhetoric/Civic Controversy
- COMM 3100 - Communication Ethics
- COMM 3330 - Communication Research Methods
- COMM 4381 - Senior Capstone

### Plus Three Courses From One of the Following Focus Areas:

#### Professional & Relational Communication

- COMM 3012 - Health Communication
- COMM 3322 - Theories of Persuasion
- COMM 3341 - Discussion
- COMM 4011 - Communication in Organizations
- COMM 4014 - Communication on the Internet
- COMM 4015 - Health Literacy
- COMM 4016 - Public Health Campaigns
- COMM 4340 - Listening
- COMM 4341 - Interpersonal Communication
- COMM 4342 - Small Group Communication
- COMM 4363 - Dialogue

- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- COMM 4380 - Communication and Conflict

## Rhetoric & Public Advocacy

- COMM 3321 - Argumentation and Advocacy
- COMM 3322 - Theories of Persuasion
- COMM 3341 - Discussion
- COMM 3360 - Rhetoric/Pop Culture
- COMM 3361 - African-American Rhetoric
- COMM 4013 - Political Communication
- COMM 4340 - Listening
- COMM 4360 - American Eloquence
- COMM 4364 - Voices/American Women
- COMM 4365 - Place/Community/Communication
- COMM 4380 - Communication and Conflict

## Media & Culture

- COMM 1851 - Introduction to Film
- COMM 3003 - Television and Culture
- COMM 3322 - Theories of Persuasion
- COMM 3360 - Rhetoric/Pop Culture
- COMM 3800 - Media Industries
- COMM 3820 - Broadcast Prep and Performance
- COMM 3821 - Audio Narratives
- COMM 4811 - Media 2.0
- COMM 4850 - Film History I
- COMM 4851 - Film History II
- COMM 4853 - Documentary Form Film
- COMM 4854 - Documentary Form Broadcasting
- COMM 4856 - Gender and Film
- COMM 4858 - Contemporary Cinema
- COMM 4859 - Monster Films
- COMM 4860 - Reality TV
- COMM 4014 - Communication on the Internet

## Plus 6 Additional Hours of Comm Electives

## Electives (12 - 20 hours)

Completion of courses to bring the total to 120 semester hours.

## Honors Program

To be eligible for admission to the Communication Honors program a student must meet the following requirements: (1) declare a major in Communication, (2) have completed 12 hours of Communication coursework, (3) have Department of Communication faculty member as an adviser, and (4) make an honors application to the adviser. Applications may be obtained from the director of the honors program or from the department office.

To be awarded departmental honors at graduation with the designation "With Honors in Communication," a student must fulfill the following requirements: (1) maintain a 3.5 GPA in communication coursework, (2) maintain a 3.5 GPA overall, (3) complete all Department of Communication major requirements, (4) complete an independent thesis or an independent film/video project sponsored by a Department of Communication faculty member consisting of six hours over two semesters: three hours in research preparation (COMM 3330, COMM 4381, or COMM 4891), and three hours in completing the thesis project (COMM 4999), and (5) successful defense of the thesis.

## Typical 4-Year Communication Studies Concentration Sequence

### Freshman Year

- COMM 2100 - Communication Inquiry
- ENGL 1010 - English Composition
  - Math\* (3-4)
  - Foreign Language/B.A. (or elective)\*\* (3)
  - Social/Behavioral Science (3)\*
- COMM 2101 - Media and Info Literacy
- ENGL 1020 - English Comp/Analysis
  - Humanities/Fine Arts\* (3)
  - Foreign Language/B.A. (or elective)\*\* (3)
  - Social/Behavioral Science (3)\*

### Semester Totals 30-31 hrs

### Sophomore Year

- COMM 2381 - Oral Communication
  - ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
    - Foreign Language/B.A. (3)
    - Natural Science (4)\*
    - History\* (3)
  - COMM 3001 - Rhetoric/Civic Controversy
  - COMM 1851 - Introduction to Film
    - Foreign Language/B.A. (3)
    - Natural Science (4)\*
    - History\* (3)

## Semester Totals 32 hrs

### Junior Year

- COMM 3100 - Communication Ethics
  - COMM Focus Area Course 1 (3)
  - COMM elective (3)
  - UD elective (3)

Elective (3)

- COMM 3330 - Communication Research Methods
  - COMM Focus Area Course 2 (3)
  - UD Elective (3)
  - UD Elective (3)

Elective (3)

## Semester Totals 31 hrs

### Senior Year

- COMM Focus Area Course 3 (3)
- UD COMM Elective (3)
- UD Elective (3)
- UD Elective (3)

Elective (3)

- COMM 4381 - Senior Capstone
  - UD COMM Elective (3)
  - Elective (3)
  - Elective (3)

## Semester Totals 27 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\* Must satisfy University General Education Program Requirement

\*\*Students presenting a language to meet University admission requirements cannot receive credit for 1010 in that language.

## Film and Video Production Concentration, Communication (B.A.)

### Communication Major (B.A.)

The program objectives for a B.A. in Communication are linked to five key areas:

1. **Performance:** Students will demonstrate competence in producing messages for different purposes, audiences, and contexts.
2. **Analysis and Critical Thinking:** Students will analyze, interpret and evaluate messages across various forms and contexts.
3. **Knowledge:** Students will know the development of communication studies from its rhetorical roots through social scientific perspectives to contemporary critical approaches.
4. **Ethics:** Students will articulate ethical principles and apply them in diverse communication contexts.
5. **Mediated Communication:** Students will understand the impact of media forms on communication processes.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### Bachelor of Arts (B.A.) (6-9 hours)

The **Bachelor of Arts requirements** are in addition to the University General Education Program requirements.

### The Major (33-37 hours)

#### Major Core (6 hours)

All students must take

- COMM 2100 - Communication Inquiry
- COMM 2381 - Oral Communication (included in the University General Education Program)

#### Note

A 2.0 cumulative GPA is required for all courses completed in the major. In addition, all students must fulfill the requirements for the following concentration:

## Film and Video Production (27-29 hours):

- COMM 3823 - Motion Picture Prod I
- COMM 3824 - Motion Picture Prod II
- COMM 3842 - TV Studio Production I

## Three Production or Writing courses:

- COMM 4822 - Audio Production Film/Video
- COMM 4824 - Cinema/Videography
- COMM 4825 - Editing/Post Production
- COMM 4841 - Television Workshop
- COMM 4842 - TV Studio Production II
- COMM 4891 - Producing/Directing Film/Video
- COMM 4960 - Documentary Writing
- COMM 4970 - Screenwriting

## Two Film Studies courses

(Selection may not include course used to satisfy core)

- COMM 3003 - Television and Culture
- COMM 4220 - Special Topics in Film
- COMM 4221 - Special Topics in Film
- COMM 4222 - Special Topics in Film
- COMM 4223 - Special Topics in Film
- COMM 4224 - Special Topics in Film
- COMM 4225 - Special Topics in Film
- COMM 4226 - Special Topics in Film
- COMM 4227 - Special Topics in Film
- COMM 4228 - Special Topics in Film
- COMM 4229 - Special Topics in Film
- COMM 4850 - Film History I
- COMM 4851 - Film History II
- COMM 4853 - Documentary Form Film
- COMM 4854 - Documentary Form Broadcasting
- COMM 4856 - Gender and Film
- COMM 4858 - Contemporary Cinema
- COMM 4859 - Monster Films
- COMM 4860 - Reality TV

## Electives (12 - 20 hours)

Completion of courses to bring the total to 120 semester hours.

## Honors Program

To be eligible for admission to the Communication Honors program a student must meet the following requirements: (1) declare a major in Communication, (2) have completed 12 hours of Communication coursework, (3) have Department of Communication faculty member as an adviser, and (4) make an honors application to the adviser. Applications may be obtained from the director of the honors program or from the department office.

To be awarded departmental honors at graduation with the designation "With Honors in Communication," a student must fulfill the following requirements: (1) maintain a 3.5 GPA in communication coursework, (2) maintain a 3.5 GPA overall, (3) complete all Department of Communication major requirements, (4) complete an independent thesis or an independent film/video project sponsored by a Department of Communication faculty member consisting of six hours over two semesters: three hours in research preparation (COMM 3330, COMM 4381, or COMM 4891), and three hours in completing the thesis project (COMM 4999), and (5) successful defense of the thesis.

## Typical 4-Year Film and Video Production Concentration Sequence

### Freshman Year

- COMM 1851 - Introduction to Film
- ENGL 1010 - English Composition
  - Math (3)
  - Foreign Language/B.A. (or elective)\*\* (3)
  - Natural Science (4)\*
- COMM 2100 - Communication Inquiry
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Science\* (3)
  - Foreign Language/B.A. (or elective)\*\* (3)

Natural Science (4)\*

### Semester Totals 32-33 hrs

### Sophomore Year

- COMM 3823 - Motion Picture Prod I
  - Foreign Language/B.A. (3)
  - Social/Behavioral Science (3)\*
  - History\* (3)
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- COMM 3824 - Motion Picture Prod II
  - COMM Film Studies Course (3)
  - Foreign Language/B.A. (3)
  - Humanities (3)\*
  - History\* (3)

## Semester Totals 32 hrs

### Junior Year

- COMM 2381 - Oral Communication
- COMM 3842 - TV Studio Production I
  - Elective (3)
  - UD elective (3)

UD elective (3)

COMM Production/Writing Course (3)

COMM Film Studies Course

UD elective (3)

UD elective (3)

Elective (3)

## Semester Totals 31 hrs

### Senior Year

- COMM Production/Writing Course (3)
- UD COMM elective (3)
- UD Elective (3)
- Elective (3)

- COMM Production/Writing Course (3)
- UD COMM elective (3)
- Elective (3)
- Elective (3)

## Semester Totals 25 hrs

Total Hours: 120-121

Total Hours Required for Graduation: 120

\* Must satisfy University General Education Program Requirement



\*\*Students presenting a language to meet University admission requirements cannot receive credit for 1010 in that language.

## Minor

### Communication Minor

#### Requirements

Any student wishing to minor in any area in the Department of Communication should see the department chair who will assign an appropriate advisor. The minor must consist of at least 18 hours of approved coursework, 9 of which must be upper division. Coursework for all minors will be determined by the student in conference with the advisor with the approval of the department chair.

#### Accelerated Bachelor/Masters

### Communication, Accelerated B.A./M.A.

#### Accelerated B.A./M.A Program in Communication

This program allows outstanding undergraduates to begin the coursework for the Master of Arts in Communication during their senior year. Students must begin planning to enter the Accelerated B.A./M.A. program early in their undergraduate career, in consultation with their advisor in the Department of Communication.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.A. degree while they also begin the coursework toward their M.A.

To apply, students should have a minimum 3.25 grade point average, and must submit a copy of their transcript and two reference letters from Department of Communication faculty to the Department chair. Each applicant will complete an interview with the undergraduate and graduate studies coordinator.

Students must also apply to the Graduate School for "combination senior" status, which allows them to take graduate courses in Communication. To continue in the program past the B.A., students must apply for full admission into the Graduate School and into the Communication department's M.A. program.

Up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs.

## Department of Journalism and Strategic Media

The Department of Journalism and Strategic Media at the University of Memphis offers preparation for careers in advertising, broadcast news, web journalism, newspaper/magazine, public relations and visual media. Students are required to take career-oriented skills courses to enhance skills in writing, multimedia, media literacy, professionalism, and critical thinking as they relate to careers in the media.

Program objectives for a B.A. in Advertising, Journalism, or Public Relations are:

- To think critically, creatively and independently
- To conduct research and evaluate information by methods appropriate to the communications professions in which they work
- To write correctly and clearly in forms and styles appropriate for the communications professions, audiences and purposes they serve
- To critically evaluate one's own work and that of others for accuracy and fairness, clarity, appropriate style and grammatical correctness.

The Department offers three majors: advertising, journalism, and public relations. Graduates of the Department of Journalism and Strategic Media typically work as newspaper or television reporters and photographers, editors and anchors, advertising executives, public relations professionals, freelance writers and producers, web content producers, web designers and editors, brand managers, social media coordinators, and visual media designers. No matter which program is selected, each student must have a strong background in liberal arts and an understanding of the social sciences to augment his or her professional skills. Consequently, no more than 48 hours of courses from the Department of Journalism and Strategic Media may be included in the 120 hours required for graduation. The remainder of the student's course work must follow the guidelines provided by the university to qualify for a Bachelor of Arts degree.

On-campus practical experience is available on The Daily Helmsman news paper, radio station WUMR, Tiger News campus TV newscast productions and through the Meeman 901 Strategies public relations and advertising firm, as well as through publicity and communications offices throughout campus.

JRSM 2121 is a prerequisite for journalism majors taking more advanced writing courses in the program. Prerequisite courses must be completed with a minimum grade of "C" before moving on to any course in the program to which the prerequisites are applied. A grade point average of 2.0 is required to declare and maintain a major in the Department of Journalism and Strategic Media. JRSM 1700, JRSM 1750, JRSM 2121 and JRSM 3900 must be completed within the first calendar year as a major. Students who fail to comply with the above criteria may be permanently dropped from the program. Additionally, students must have a 2.0 grade point average in journalism and strategic media classes to graduate.

Students in the Department of Journalism and Strategic Media may select only one major in the department. Of the 120 hours required for graduation, 72 hours must be from outside the Department of Journalism and Strategic Media.

Students are recommended to have a minor; each major has recommended minors.

#### **Portfolio requirement**

All undergraduate students are required to develop and maintain an active portfolio of their work. Students are to begin the portfolio in JRSM 2121 and JRSM 3900 and contribute to it during every skills course thereafter. The portfolio should contain samples of the student's work from their courses and/or professional experience and should develop as the student builds skills. Portfolios will undergo a final review while students are enrolled in the capstone course for their major.

## **Major**

### **Advertising (B.A.)**

#### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

#### **Bachelor of Arts (B.A.) (6-9 hours)**

Students must take at least 42 hours but may not exceed 48 hours of coursework in the department of Journalism and Strategic Media. The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

#### **Journalism and Strategic Media Core (21 hours)**

## Major Core (15 hours)

Completion of

- JRSM 1700 - Survey of Media
- JRSM 1750 - Precision Language
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
- JRSM 4700 - Media Law

## One of the Following (3 Hours):

- JRSM 4702 - Media, Diversity & Society
- JRSM 4704 - Issues in Sport and Media
- JRSM 4708 - Media Ethics
- JRSM 4716 - Media History
- JRSM 4720 - Presidents and the Press

## Select one from (3 hours):

- JRSM 4930 - Media Internship
- or
- JRSM 4940 - Student Media Practicum

## Advertising (24 Journalism and Strategic Media and 6 Marketing hours):

- ADVR 3300 - Survey of Advertising
- ADVR 3310 - Branding and Strategic Media
- ADVR 3324 - Creative Strategy
- ADVR 4326 - Advertising Research
- ADVR 4327 - Media Planning
- ADVR 4328 - Strategic Adv Campaigns
- JOUR 4900 - Advanced Visual Media

ADVR/JOUR/JRSM/PBRL elective (3)

- MKTG 3010 - Principles of Marketing
- MKTG 3012 - Consumer Behavior

## Electives (13 hours)

Completion of courses to bring the total to 120 semester hours.

## Typical 4-Year Advertising Sequence

### Freshman Year

- JRSM 1700 - Survey of Media \*\*
- JRSM 1750 - Precision Language
  - Foreign Language/B.A. (3)
  - Social/Behavioral Sciences (3) \*
- ENGL 1010 - English Composition
  
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
  - Foreign Language/B.A. (3)
  - Fine Arts (3) \*
- ENGL 1020 - English Comp/Analysis

Semester Totals 30 hrs

### Sophomore Year

- ADVR 3300 - Survey of Advertising
  - Non-JRSM Elective (Minor) (3)
  - Foreign Language/B.A. (3)
  - History (3) \*
- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American
  
- ADVR 3310 - Branding and Strategic Media
  - Humanities/Fine Arts (3)\*
  - Natural Science (4) \*
  - Foreign Language/B.A. (3)
  - MATH (3) \*

Semester Totals 31 hrs

### Junior Year

- ADVR 3324 - Creative Strategy
- MKTG 3010 - Principles of Marketing
  - Natural Science (4) \*
  - History (3) \*
  - Non-JRSM Elective (Minor) (3)
  
- JOUR 4900 - Advanced Visual Media
- MKTG 3012 - Consumer Behavior
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM elective (Minor) (3)
- COMM 2381 - Oral Communication

Semester Totals 31 hrs

## Senior Year

- ADVR 4326 - Advertising Research
- ADVR 4327 - Media Planning
  - Non-JOUR Elective (Minor) (3)
  - Non-JOUR Elective (Minor) (1)
- JRSM 4700 - Media Law
  
- ADVR 4328 - Strategic Adv Campaigns
- JRSM 4930 - Media Internship or
- JRSM 4940 - Student Media Practicum
  - UD JRSM Elective (3)
  - ADVR/JOUR/JRSM/PBRL elective (3)
  - Non-JRSM Elective (Minor) (3)

Semester Totals 28 hrs

Total Hours: 120

Internship elective highly recommended last semester to enhance employability and complete minimum of 120 hours for degree.

Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*JRSM 1700 fulfills Social Science General Education Requirement

## Journalism (B.A.)

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

Bachelor of Arts (B.A.) (6-9 hours)

Students must take at least 42 hours but may not exceed 48 hours of coursework in the department of Journalism and Strategic Media. The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

## Journalism and Strategic Media Core (21 hours)

### Major Core (15 hours)

Completion of

- JRSM 1700 - Survey of Media
- JRSM 1750 - Precision Language
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
- JRSM 4700 - Media Law

### One of the Following (3 Hours):

- JRSM 4702 - Media, Diversity & Society
- JRSM 4704 - Issues in Sport and Media
- JRSM 4708 - Media Ethics
- JRSM 4716 - Media History
- JRSM 4720 - Presidents and the Press

### Select one from (3 hours):

- JRSM 4930 - Media Internship
- or
- JRSM 4940 - Student Media Practicum

## Journalism Major Core (24 hours)

- JOUR 3120 - Reporting
- JOUR 3526 - Multimedia Storytelling
- JOUR 4998 - Multimedia News Lab

Two of the following:

- JOUR 3130 - Feature Writing/Reporting
- JOUR 4124 - Data Writing/Reporting
- JOUR 4150 - Sports Writing/Reporting
- JOUR 4160 - Food Writing/Reporting
- JOUR 4170 - Business Writing/Reporting
- JOUR 4180 - Public Issues Writing/Reporting
- JOUR 4190 - Opinion Writing/Reporting

- JOUR 4629 - TV News Writing/Reporting

Two of the following:

- JOUR 4140 - Publication Design
- JOUR 4500 - Web Publish I: html/CSS
- JOUR 4550 - Web Publish II: html/CSS
- JOUR 4560 - Interactive Media
- JOUR 4920 - Information Design
- JOUR 4526 - Advanced Photojournalism
- JOUR 4639 - TV News Producing
- JOUR 4155 - Multimedia Sports Reporting
- JRSM 4910 - Advanced Social Media

One ADVR/JOUR/JRSM/PBRL elective

## Electives (13 hours)

Completion of courses to bring the total to 120 semester hours.

## Typical 4-Year Journalism Sequence

### Freshman Year

- JRSM 1700 - Survey of Media \*\*
- JRSM 1750 - Precision Language
  - Foreign Language/B.A. (3)
  - Social/Behavioral Sciences (3) \*
- ENGL 1010 - English Composition
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
  - Foreign Language/B.A. (3)
  - Humanities/Fine Arts (3) \*
- ENGL 1020 - English Comp/Analysis

### Semester Totals 30 hrs

### Sophomore Year

- JOUR 3526 - Multimedia Storytelling
- JOUR 3120 - Reporting
  - Foreign Language/B.A. (3)
  - History (3) \*
- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American

- Humanities/Fine Arts (3) \*
- Natural Science (4) \*
- Foreign Language/B.A. (3)
- MATH (3) \*
- JOUR writing elective (3)

**Semester Totals 31 hrs**

## Junior Year

- Non-JRSM Elective (Minor) (3)
- JOUR writing elective (3)
- JOUR production elective (3)
- History (3)
- Natural Science\* (4)
- COMM 2381 - Oral Communication
  - ADVR/JOUR/JRSM/PBRL elective (3)
  - JOUR production elective (3)
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM Elective (Minor) (3)

**Semester Totals 30-31 hrs**

## Senior Year

- JRSM 4700 - Media Law
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM Elective (Minor) (1)
- JOUR 4998 - Multimedia News Lab
- JRSM 4930 - Media Internship or
- JRSM 4940 - Student Media Practicum
  - UD JRSM Elective (3)
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM Elective (Minor) (3)

**Semester Totals 28 hrs**

**Total Hours: 120**

Internship elective highly recommended last semester to enhance employability and complete minimum of 120 hours for degree.



## Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*JRSM 1700 fulfills Social Science General Education Requirement

## Public Relations, (B.A.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### Bachelor of Arts (B.A.) (6-9 hours)

Students must take at least 42 hours but may not exceed 48 hours of coursework in the department of Journalism and Strategic Media. The College and Bachelor of Arts requirements are in addition to the University General Education Program requirements.

### Journalism and Strategic Media Core (21 hours)

### Major Core (15 hours)

Completion of

- JRSM 1700 - Survey of Media
- JRSM 1750 - Precision Language
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
- JRSM 4700 - Media Law

### One of the Following (3 Hours):

- JRSM 4702 - Media, Diversity & Society
- JRSM 4704 - Issues in Sport and Media
- JRSM 4708 - Media Ethics
- JRSM 4716 - Media History
- JRSM 4720 - Presidents and the Press

### Select one from (3 hours):

- JRSM 4930 - Media Internship
- or
- JRSM 4940 - Student Media Practicum

### Public Relations (24 journalism and strategic media and 6 non-journalism hours):

- PBRL 3400 - Survey of Public Relations
- PBRL 3421 - Public Relations Writing
- PBRL 4410 - Public Relations Research
- PBRL 4440 - Public Relations Campaigns

One of the following:

- PBRL 3409 - Public Relations Case Studies
- PBRL 4301 - Event Management/HPRM& PR
- PBRL 4421 - Crisis Comm in Public Relation
- PBRL 4431 - Music Promo/Public Relations

One of the following:

- JOUR 3120 - Reporting
- JOUR 3130 - Feature Writing/Reporting
- JOUR 3526 - Multimedia Storytelling
- One of the following:
- ADVR 3300 - Survey of Advertising
- ADVR 3310 - Branding and Strategic Media
- JOUR 4500 - Web Publish I: html/CSS
- JRSM 4910 - Advanced Social Media

One ADVR, JOUR, JRSM or PBRL elective

- MGMT 3110 - Organization and Mgmt
- MKTG 3010 - Principles of Marketing

### Electives (13 hours)

Completion of courses to bring the total to 120 semester hours.

## Typical 4-Year Public Relations Sequence

### Freshman Year

- JRSM 1700 - Survey of Media \*\*
- JRSM 1750 - Precision Language
  - Foreign Language/B.A. (3)
  - Social/Behavioral Sciences (3) \*
- ENGL 1010 - English Composition
  
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
  - Foreign Language/B.A. (3)
  - Humanities/Fine Arts (3) \*
- ENGL 1020 - English Comp/Analysis

Semester Totals 30 hrs

### Sophomore Year

- PBRL 3400 - Survey of Public Relations
  - Non-JRSM elective (Minor) (3)
  - Foreign Language/B.A. (3)
  - History (3) \*
- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American
  
- PBRL 3421 - Public Relations Writing
  - Natural Science\* (4)
  
- Foreign Language/BA (3)
  - Fine Arts\* (3)
  
- Math\* (3)

Semester Totals 31 hrs

### Junior Year

- JOUR 3120 - Reporting or
- JOUR 3130 - Feature Writing/Reporting or
- JOUR 3526 - Multimedia Storytelling
- MKTG 3010 - Principles of Marketing
  - Natural Science (4) \*
  - History (3) \*
  - Non-JRSM Elective (Minor) (3)

- PBRL 3409 - Public Relations Case Studies or
- PBRL 4301 - Event Management/HPRM& PR or
- PBRL 4421 - Crisis Comm in Public Relation or
- PBRL 4431 - Music Promo/Public Relations
- MGMT 3110 - Organization and Mgmt
- COMM 2381 - Oral Communication
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM Elective (Minor) (3)

Semester Totals 31 hrs

## Senior Year

- PBRL 4410 - Public Relations Research
  - ADVR/JOUR/JRSM/PBRL Elective (3)
- JRSM 4700 - Media Law
  - Non-JRSM Elective (Minor) (3)
  - Non-JRSM Elective (Minor) (1)
- PBRL 4440 - Public Relations Campaigns
  - UD JRSM Elective (3)
- ADVR 3300 - Survey of Advertising or
- ADVR 3310 - Branding and Strategic Media or
- JRSM 4910 - Advanced Social Media or
- JOUR 4500 - Web Publish I: html/CSS
  - Non-JOUR Elective (Minor) (3)

Semester Totals 28 hrs

Total Hours: 120

Internship elective highly recommended last semester to enhance employability and complete minimum of 120 hours for degree.

Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*JRSM 1700 fulfills Social Science General Education Requirement

\*\*\*Unless Fine Arts was taken in General Education humanities/Fine Arts, take Non-JOUR Elective (Minor)

## Minor

### Advertising Minor

To complete the minor in Advertising, a student must earn 18 hours of credit in the Department of Journalism and Strategic Media meeting the following conditions:

(NOTE: Coursework for the minor will be determined by the student in conference with the advisor with the approval of the department chair.)

#### Advertising Minor Core

- JRSM 1750 - Precision Language
- JRSM 2121 - Media Writing
- JRSM 3900 - Visual Media
- ADVR 3300 - Survey of Advertising

Select Two of the Following:

- ADVR 3310 - Branding and Strategic Media
- ADVR 3324 - Creative Strategy
- ADVR 4326 - Advertising Research
- ADVR 4327 - Media Planning
- ADVR 4328 - Strategic Adv Campaigns
- JOUR 4900 - Advanced Visual Media

### Journalism Minor

To complete the minor in Journalism, a student must earn 18 hours of credit in the Department of Journalism and Strategic Media meeting the following conditions:

(NOTE: Coursework for the minor will be determined by the student in conference with the advisor with the approval of the department chair.)

#### Journalism Minor Core

- JRSM 1750 - Precision Language
- JRSM 2121 - Media Writing
- JOUR 3120 - Reporting
- JOUR 3526 - Multimedia Storytelling

Select two of the Following:

- JOUR 3130 - Feature Writing/Reporting
- JOUR 4124 - Data Writing/Reporting
- JOUR 4150 - Sports Writing/Reporting
- JOUR 4155 - Multimedia Sports Reporting
- JOUR 4160 - Food Writing/Reporting

- JOUR 4170 - Business Writing/Reporting
- JOUR 4180 - Public Issues Writing/Reporting
- JOUR 4190 - Opinion Writing/Reporting

## Public Relations Minor

To complete the minor in Public Relations, a student must earn 18 hours of credit in the Department of Journalism and Strategic Media meeting the following conditions:

(NOTE: Coursework for the minor will be determined by the student in conference with the advisor with the approval of the department chair.)

### Public Relations Minor Core

- JRSM 1750 - Precision Language
- JRSM 2121 - Media Writing
- PBRL 3400 - Survey of Public Relations
- PBRL 3421 - Public Relations Writing

Select two of the Following:

- JRSM 3900 - Visual Media
- PBRL 4301 - Event Management/HPRM& PR
- PBRL 4410 - Public Relations Research
- PBRL 4421 - Crisis Comm in Public Relation
- PBRL 4431 - Music Promo/Public Relations
- PBRL 4440 - Public Relations Campaigns

## Rudi E. Scheidt School of Music

### Rudi E. Scheidt School of Music

Program objectives for a B.M. in Music are: (a) to be prepared for entrance into accredited graduate programs in music; (b) to be prepared to pursue graduate studies in music performance; (c) to be prepared to pursue careers in the music profession.

The Bachelor of Music with a major in Music is a professional degree, the requirements for which provide the student with an opportunity for specialization in the traditional disciplines of music and music education. A minimum grade of "C-" is required in every graded music course applicable toward the major. The student must maintain an overall grade point average of 2.0. Exception: Music Education concentration: overall grade point average of 2.75 and a minimum grade of "C-" in each professional education and music course.

The specific degree requirements are divided into four groups: (1) University General Education Program, (2) basic music courses, (3) courses required for the specific emphasis chosen by the student, (4) electives to bring the total of semester hours taken to 120 (124 hours for Music Education choral emphasis, 125 hours for Music Education instrumental emphasis). All students must complete a minimum of 42 hours at the upper division level. Transfer students must complete a minimum of 30 semester hours of music and/or music education courses at the upper division level at the University of Memphis.

**Admission:** All applicants seeking admission as freshman music majors or as transfer students must complete and submit to the Admissions Office of the University of Memphis an appropriate formal application form. In addition to academic considerations, admission to the music degree program requires a personal interview and an audition. The audition consists of (1) performance in the student's major applied area, (2) a music theory examination and (3) a piano placement exam. Candidates are accepted on the basis of accomplishment, potential and suitability for the concentration they wish to pursue. Additional information on specific audition requirements and on interview/audition appointments may be obtained through the office of the School of Music or at <http://www.memphis.edu/music>.

## Music Industry

The Bachelor of Music degree in Music Industry is designed for students whose interests and abilities indicate a strong potential for significant achievement in the music industry.

Two concentrations are available: Music Business and Recording Technology

**Admission:** Admission is based on selective procedures, and admission to the University does not guarantee placement in the Music Industry Program. Stringent quality control is essential; therefore, an assessment is required of all students desiring to enter the program. Entrance requirements vary by concentration. Specific admissions criteria may be obtained through the office of the Director, School of Music. Through the admissions procedure, preliminary estimates of student commitment and potential success can be made. Upon admission, the student will be assigned an advisor.

**Retention:** The student's progress and continued potential will be reviewed twice yearly by the appropriate Music Industry faculty. Permission to continue in the program will be based upon this evaluation. Retention criteria may be obtained through the office of the Director, School of Music.

**Ensembles:** Students in Music Business or Recording Technology must complete two (2) credit hours of ensemble.

**Concert Attendance:** All students in Music Business and Recording Technology are required to attend a minimum of 50 concerts or recitals during their four-year program. Records will be maintained in the School on the number of events attended by each student and a report will be filed with the Director of the School each year.

**Experiential Learning:** Credit may be awarded for validated learning from experience or non-traditional instruction. Students who wish to apply for credit for experiential learning may obtain guidelines for this procedure from the Dean of the College of Communication and Fine Arts. (See Fees and Charges, for related fee information.)

**Graduation from the Program:** A minimum of 120 hours is required for graduation; a minimum grade of "C-" is required in every graded course applicable to the major as well as an overall grade point average of 2.5.

## Music

Program objectives for a B.M. in Music are: (a) to be prepared for entrance into accredited graduate programs in music; (b) to be prepared to pursue graduate studies in music performance; (c) to be prepared to pursue careers in the music profession.

The Bachelor of Music with a major in Music is a professional degree, the requirements for which provide the student with an opportunity for specialization in the traditional disciplines of music and music education. A minimum grade of "C-" is required in every graded music course applicable toward the major. The student must maintain an overall grade point average of 2.0. Exception: Music Education concentration: overall grade point average of 2.75 and a minimum grade of "C-" in each professional education and music course.

The specific degree requirements are divided into four groups: (1) University General Education Program, (2) basic music courses, (3) courses required for the specific emphasis chosen by the student, (4) electives to bring the total of semester hours taken to 120 (124 hours for Music Education choral emphasis, 125 hours for Music Education instrumental emphasis). All students must complete a minimum of 42 hours at the upper division level. Transfer students must complete a minimum of 30 semester hours of music and/or music education courses at the upper division level at the University of Memphis.

**Admission:** All applicants seeking admission as freshman music majors or as transfer students must complete and submit to the Admissions Office of the University of Memphis an appropriate formal application form. In addition to academic considerations, admission to the music degree program requires a personal interview and an audition. The audition consists of (1) performance in the student's major applied area, (2) a music theory examination and (3) a piano placement exam. Candidates are accepted on the basis of accomplishment, potential and suitability for the concentration they wish to pursue. Additional information on specific audition requirements and on interview/audition appointments may be obtained through the office of the School of Music or at <http://www.memphis.edu/music>.

## Major

### Music - Commercial Music Performance Concentration. (B.M.)

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commercial Music concentration. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

The Major (85-90 hours)

Major Core (36 - 43 hours)

Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III



## Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

## Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

## Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

## Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

## Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

## History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

## Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

## Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

## With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Concentration (42 hours)

## Commercial Music Performance

- MUAP 1XX1 (1)
- MUAP 1XX2 (10)
- MUAP 4XX2 (4)
- MUAP 3103 - Commercial Music Combo
- MUAP 4895 - Sr Proj Jazz/Studio Perform
- MUID 2201 - Intro to Music Industry
- MUID 3103 - Contmp Songwrt/Prod Technique
- MUID 3905 - Digital Audio Workstations
- MUID 4840 - Entrepreneurship Comm Music
- MUTC 3301 - Commercial Music Arranging
- MUTC 3825 - Material/Techniques Improv I

## Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Commercial Music Performance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Social/Behavioral Sciences (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
- MUID 1001 - Intro Music Technology
  - MUAP (applied music) (2)
- MUAP 3103 - Commercial Music Combo
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences (3) \*
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
- MUAP 1116 - Jazz Class Piano
  - MUAP (applied music) (2)
  - MUAP 3103 - Commercial Music Combo (1)

Semester Totals 30 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- MUTC 2008 - Music Theory III

or

- MUTC 4210 - Music Theory: Popular Styles
- MUTC 2010 - Ear Training III
- MUTC 2103 - Theory Jazz/Pop/Commercial I
  - MUAP (ensemble) (1)
- MUID 2201 - Intro to Music Industry
  - MUAP (applied music) (2)
- MUAP 3103 - Commercial Music Combo
  - MATH (3) \*
  - History (3) \*
- MUTC 3301 - Commercial Music Arranging
- MUID 3103 - Contmp Songwrt/Prod Technique
  - MUAP (ensemble) (1)
  - MUAP (applied music) (2)
  - MUAP 3103 - Commercial Music Combo (1)

**Semester Totals 32 hrs**

## Junior Year

- Natural Science (4) \*
- COMM 2381 - Oral Communication
- MUSE 3700 - Basic Conducting
- MUTC 3825 - Material/Techniques Improv I
  - MUAP (ensemble) (1)
  - MUAP (applied music) (2)
- MUAP 3103 - Commercial Music Combo
  - Natural Science (4) \*
  - History (3) \*
- MUHL 3303 - Western Music History
- MUID 3905 - Digital Audio Workstations
  - MUAP (ensemble) (1)
  - MUAP (applied music) (1)
  - MUAP 3103 - Commercial Music Combo (1)

**Semester Totals 32 hrs**

## Senior Year

- Music Elective (3)
- MUHL Elective (3)
- MUID 4840 - Entrepreneurship Comm Music
  - MUAP (ensemble) (1)
  - MUAP (applied music) (2)
- MUAP 3103 - Commercial Music Combo

- Elective (3)
- MUAP 4895 - Sr Proj Jazz/Studio Perform
  - MUHL Elective (3)
  - MUAP (ensemble) (1)
  - MUAP (applied music) (2)
  - MUAP 3103 - Commercial Music Combo (1)

Semester Totals 26 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Music - Composition Concentration. (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commercial Music concentration. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

The Major (85-90 hours)

Major Core (36 - 43 hours)

Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

## Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II

- MUTC 2008 - Music Theory III

or

- MUTC 4210 - Music Theory: Popular Styles
- MUTC 2010 - Ear Training III

## Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

## Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

## Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

## Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

## Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

### History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

### Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

### Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

### With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

### Intro Music Technology

- MUID 1001 - Intro Music Technology

### Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program

exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Concentration (42 hours except Music Education)

### Composition:

Individual instruction in applied music to include two semesters of piano (8)

- MUTC 2501 - Composition
- MUTC 2502 - Composition minimum two semesters
- MUTC 4501 - Composition (minimum three semesters)
- MUTC 4511 - Electronic Music II
- MUTC 4512 - Electronic Music III

### Choose One of the Following Courses:

- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4209 - Advanced Orchestration
- MUTC 4599 - Senior Composition Recital
- MUTC 4106 - Composition Processes 20th Cent

## Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Composition Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition



- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUTC 2501 - Composition
- ENGL 1020 - English Comp/Analysis
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUID 1001 - Intro Music Technology

Semester Totals 26 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - Natural Science (4) \*
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
  - MUAP 2502 (3)
- MUAP 2107 - Class Instruction in Piano III
- MUTC 2502 - Composition
  - Natural Science (4) \*
  - MATH (3) \*
  - MUAP (large ensemble) (1)
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV
- MUAP 2108 - Class Instruct Piano IV
  - MUAP (applied music) (2)

Semester Totals 36 hrs

## Junior Year

- History (3) \*
- COMM 2381 - Oral Communication
- MUHL 3301 - History of Music to 1750
- MUTC 4209 - Advanced Orchestration
  - MUAP (large ensemble) (1)
- MUTC 4501 - Composition
- MUSE 3700 - Basic Conducting
  - History (3) \*
  - MUTC 420x (2)

- MUHL 3302 - History of Music Since 1750
- MUTC 4511 - Electronic Music II
  - MUAP (large ensemble) (1)
  - MUTC 4501 - Composition (3)

Semester Totals 32 hrs

## Senior Year

- Social/Behavioral Sciences (3) \*
- MUTC 4501 - Composition
- MUTC 4512 - Electronic Music III
  - Theory elective (3)
  - MUAP (large ensemble) (1)
- MUTC 4599 - Senior Composition Recital
  - MUHL elective (3) \*\*
  - MUAP (large ensemble) (1)
- MUTC 4106 - Composition Processes 20th Cent
  - Social/Behavioral Sciences (3) \*

Semester Totals 26 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one from MUHL 4008 MUHL 4009 MUHL 4010 MUHL 4013 MUHL 4406 MUHL 4407 MUHL 4800 MUHL 4801 MUHL 4805 MUHL 4806 MUHL 4807

## **Music - Jazz and Studio Composition/Arranging. (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commercial Music concentration. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

## The Major (85-90 hours)

### Major Core (36 - 43 hours)

#### Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

#### Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III

#### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

#### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

## Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

## Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

## Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

## History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

## Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

## Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

## With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Concentration (42 hours)

### Jazz and Studio Composition/Arranging

- MUAP 1312 - Commercial Music Piano

Pianists take:

- MUAP 1550 - Guitar Intro Instr

OR

- MUSE 1119 - Guitar/Music Teacher
- MUTC 2501 - Composition
- MUTC 2504 - Comp/Arrange Jazz/Commercial II
- MUTC 2511 - Electronic Music I
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3501 - Comp/Arrange/Jazz/Commercial III
- MUTC 3825 - Material/Techniques Improv I
- MUTC 4106 - Composition Processes 20th Cent

- MUTC 4503 - Comp/Arrange Jazz/Commercial IV
- MUTC 4896 - Sr Prj Jazz Studio/Comp Arrang
  - MUAP 1xx2 (5)

## Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Jazz Composition and Arranging Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Social/Behavioral Sciences (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (2)
- MUTC 1001 - Basic Music Theory
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences (3) \*
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
- MUTC 2501 - Composition
- MUAP 1116 - Jazz Class Piano

Semester Totals 29 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
  - MUAP (applied music) (3)
- MUTC 3825 - Material/Techniques Improv I
- MUTC 2103 - Theory Jazz/Pop/Commercial I
- MUAP 3012 - Univ Instrumentl Jazz Ensemble
- or

- MUAP 3013 - Univ Voice Jazz Ensemble
    - MATH (3) \*
    - Music elective (3)
  - MUAP 3103 - Commercial Music Combo
  - MUTC 3008 - Music Theory IV
  - MUTC 3009 - Ear Training IV
  - MUTC 3201 - Jazz Arrange/Orchestration
    - MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)
- or
- MUAP 3013 - Univ Voice Jazz Ensemble

## Semester Totals 32 hrs

## Junior Year

- Natural Science (4) \*
  - MUSE 3700 - Basic Conducting
  - MUAP 1312 - Commerical Music Piano
  - MUTC 2511 - Electronic Music I
  - COMM 2381 - Oral Communication
  - MUTC 2504 - Comp/Arrange Jazz/Commrcial II
  - MUAP 3012 - Univ Instrumentl Jazz Ensemble
- or
- MUAP 3013 - Univ Voice Jazz Ensemble
    - Natural Sciences (4) \*
    - History (3) \*
  - MUHL 3303 - Western Music History
    - MUAP 1312 - Commerical Music Piano (2)
    - MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)
- or
- MUAP 3013 - Univ Voice Jazz Ensemble (1)
  - MUTC 3501 - Comp/Arrang/Jazz/Comrcial III

## Semester Totals 31 hrs

## Senior Year

- History (3) \*
- MUTC 4503 - Comp/Arrange Jazz/Commrcial IV
  - Music Elective (3)
- MUAP 3012 - Univ Instrumentl Jazz Ensemble

or

- MUAP 3013 - Univ Voice Jazz Ensemble
  - MUHL Elective (3)
- MUAP 3103 - Commercial Music Combo
  - Music Elective (3)
  - MUAP 4896 (4)
- MUHL 4806 - History of Jazz
- MUTC 4106 - Composition Processes 20th Cent
  - MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)

or

- MUAP 3013 - Univ Voice Jazz Ensemble (1)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Music - Jazz and Studio Performance Concentration. (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commerical Music concentraton. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.



## The Major (85-90 hours)

### Major Core (36 - 43 hours)

#### Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

#### Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III

#### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

#### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

## Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

## Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

## Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

## History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

## Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

## Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

## With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Concentration (42 hours)

### Jazz and Studio Performance

- MUAP 3103 - Commercial Music Combo
  - 4xx2 (4)
- MUAP 4895 - Sr Proj Jazz/Studio Perform
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3825 - Material/Techniques Improv I
- MUTC 3826 - Material/Techniques Improv II
- MUTC 3827 - Material/Techniques Improv III

### Jazz Vocal Students Take

- MUHL 4016 - Jazz Vocal Styles instead of
- MUTC 3827 - Material/Techniques Improv III

## Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Jazz and Studio Performance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Social/Behavioral Sciences (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (2)
- MUAP 3012 - Univ Instrumentl Jazz Ensemble
- or
- MUAP 3013 - Univ Voice Jazz Ensemble
- MUID 1001 - Intro Music Technology
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences (3) \*
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
  - MUAP (applied music) (2)
  - MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)
- or
- MUAP 3013 - Univ Voice Jazz Ensemble (1)
- MUAP 1116 - Jazz Class Piano

### Semester Totals 30 hrs

### Sophomore Year

- History (3) \*
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
  - MUAP (applied music) (2)
- MUTC 3825 - Material/Techniques Improv I
- MUTC 2103 - Theory Jazz/Pop/Commercial I
- MUAP 3012 - Univ Instrumentl Jazz Ensemble

or

- MUAP 3013 - Univ Voice Jazz Ensemble
- MUAP 3103 - Commercial Music Combo
  - MATH (3) \*
  - History (3) \*
  - MUAP 3103 - Commercial Music Combo (1)
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV
- MUTC 3201 - Jazz Arrange/Orchestration
  - MUAP (applied music) (2)
  - MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)

or

- MUAP 3013 - Univ Voice Jazz Ensemble (1)

## Semester Totals 34 hrs

## Junior Year

- Natural Science (4) \*
- MUSE 3700 - Basic Conducting
- MUAP 3103 - Commercial Music Combo
- MUTC 3826 - Material/Techniques Improv II
- COMM 2381 - Oral Communication
  - MUAP (applied music) (2)
- MUAP 3012 - Univ Instrumentl Jazz Ensemble

or

- MUAP 3013 - Univ Voice Jazz Ensemble
  - Natural Sciences (4) \*
  - MUAP 3103 - Commercial Music Combo (1)
- MUHL 3303 - Western Music History
  - MUAP (2nd instrument) (1)
  - MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)

or

- MUAP 3103 - Commercial Music Combo (1)
- Elective (2)
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American

Semester Totals 31 hrs

## Senior Year

- MUID 3827 (3)
- Music Elective (3)
- MUAP 3103 - Commercial Music Combo
- MUAP 3012 - Univ Instrumentl Jazz Ensemble
- or
- MUAP 3013 - Univ Voice Jazz Ensemble
- MUAP 4xx2 (2)
- MUHL Elective (3)
- Elective (3)
- MUAP 4895 - Sr Proj Jazz/Studio Perform
- MUHL 4806 - History of Jazz
  - MUAP 4xx2 (2)
- MUAP 3012 - Univ Instrumentl Jazz Ensemble (1)
- or
- MUAP 3013 - Univ Voice Jazz Ensemble (1)

Semester Totals 25 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Music - Music Education (Choral) Concentration,. (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commerical Music concentraton. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

## The Major (85-90 hours)

### Major Core (36 - 43 hours)

#### Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

#### Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III

#### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

#### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

## Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

## Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

## Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

## History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

## Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

## Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

## With Two Exceptions:



Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Music Education (47-48 hours):

### Core (32 hours):

- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- MUSE 4901 - Residency I
- MUSE 4999 - Professional Seminar
- MUSE 4405 - Matrl/Method Choral Mus 7-12
- EDPR 2111 - Development Across Lifespan
- MUSE 2002 - Foundations Music Ed
- MUAP 3999 - Junior Recital
- SPED 2000 - Foundation/Exceptional Learn
- MUSE 4911 - Residency II
- MUSE 4213 - Mat/Method/Elementary Music

### Choral Emphasis (21 hours):

- MUSE 1112 - Class Inst Voice

or

- MUAP 1610 - Voice Intro Instr

(Not required of students enrolled in applied voice)

- MUAP 2108 - Class Instruct Piano IV
- MUSE 4211 - Vocal Diction I
- MUSE 4701 - Choral Conducting

## Applied Music:

at least 2 hours at the upper division level (12)

- MUSE 4405 - Matrl/Method Choral Mus 7-12

## Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Music Education (Choral) Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUID 1001 - Intro Music Technology
- ENGL 1020 - English Comp/Analysis
- MUSE 2002 - Foundations Music Ed
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- EDPR 2111 - Development Across Lifespan

## Semester Totals 31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MUTC 2008 - Music Theory III
- COMM 2381 - Oral Communication
- MUTC 2010 - Ear Training III
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUAP 2107 - Class Instruction in Piano III
- SPED 2000 - Foundation/Exceptional Learn
  - Natural Science (4) \*
- PSYC 1030 - General Psychology
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV
- MUAP 2108 - Class Instruct Piano IV
  - MUAP (ensemble) (1)
  - MUAP (applied music) (2)
- MUSE 3700 - Basic Conducting

## Semester Totals 34 hrs

### Junior Year

- MUSE 4213 - Mat/Method/Elementary Music
  - History (3) \*
- MUHL 3301 - History of Music to 1750
- MUSE 4701 - Choral Conducting
  - MUAP (applied music) (2)
  - MUAP (small ensemble) (1)
  - MUAP (large ensemble) (1)
- MUSE 4211 - Vocal Diction I
  - Social/Behavioral Sciences (3) \*
- ICL 3333 - Stdnt Assess/Inst Dec Mkng
- MUSE 4405 - Matr/Method Choral Mus 7-12
- MUHL 3302 - History of Music Since 1750
  - MUAP (applied music) (2)
  - MUAP (ensemble) (1)
- MUSE 4523 - Vocal Pedagogy
- MUAP 3999 - Junior Recital

Semester Totals 34 hrs

Senior Year

- MUSE 4901 - Residency I
  - History (3) \*
  - Natural Science (4) \*
  - MUAP (large ensemble) (1)
- MUSE 4999 - Professional Seminar
- MUSE 4911 - Residency II

Semester Totals 25 hrs

Total Hours: 124

Total Hours Required for Graduation: 124

\*Must satisfy University General Education Program Requirement

## **Music - Music Education (Instrumental) Concentration, (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commercial Music concentration. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

## The Major (85-90 hours)

### Major Core (36 - 43 hours)

#### Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

#### Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III

#### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

#### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

## Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

## Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

## Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

## History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

## Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

## Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

## With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Music Education: (47-48 hours)

### Core (32 hours):

- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- MUSE 4901 - Residency I
- MUSE 4999 - Professional Seminar
- EDPR 2111 - Development Across Lifespan
- MUSE 2002 - Foundations Music Ed
- MUAP 3999 - Junior Recital
- SPED 2000 - Foundation/Exceptional Learn
- MUSE 4911 - Residency II
- MUSE 4213 - Mat/Method/Elementary Music

### Instrumental Emphasis (22 hours):

- MUSE 1101 - Class Inst Brass

- MUSE 1103 - Class Inst Percussion
- MUSE 1104 - Class Inst Woodwinds
- MUSE 1116 - Class Instr Strings
- MUSE 4205 - Marching Band Technique
- MUSE 4403 - Material/Meth Inst Musc Grades 9-12
- MUSE 4700 - Instrumental Conducting

## Applied Music:

at least 2 hours at the upper division level (12)

## Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Music Education (Instrumental) Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUID 1001 - Intro Music Technology
- MUSE 1104 - Class Inst Woodwinds
- ENGL 1020 - English Comp/Analysis
- MUSE 2002 - Foundations Music Ed
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- EDPR 2111 - Development Across Lifespan
- MUSE 1103 - Class Inst Percussion

Semester Totals 33 hrs

### Sophomore Year



- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- SPED 2000 - Foundation/Exceptional Learn
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUAP 2107 - Class Instruction in Piano III
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUSE 1116 - Class Instr Strings
- COMM 2381 - Oral Communication
- PSYC 1030 - General Psychology
- MUSE 3700 - Basic Conducting
- MUSE 1101 - Class Inst Brass
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV
  - MUAP (applied music) (2)
  - MUAP (ensemble) (1)
  - Natural Science (4) \*

Semester Totals 35 hrs

## Junior Year

- MUSE 4213 - Mat/Method/Elementary Music
  - History (3) \*
- MUHL 3301 - History of Music to 1750
- MUSE 4700 - Instrumental Conducting
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUSE 4205 - Marching Band Technique
  - MUAP (ensemble) (1)
  - Social/Behavioral Sciences (3) \*
- MUSE 4403 - Material/Meth Inst Musc Grades 9-12
- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- MUHL 3302 - History of Music Since 1750
  - MUAP (ensemble) (1)
  - MUAP (applied music) (2)
- MUAP 3999 - Junior Recital

Semester Totals 32 hrs

## Senior Year

- MUSE 4901 - Residency I
  - History (3) \*
  - Natural Science (4) \*
  - MUAP (large ensemble) (1)
- MUSE 4999 - Professional Seminar
- MUSE 4911 - Residency II

Semester Totals 25 hrs

Total Hours: 125

Total Hours Required for Graduation: 125

\*Must satisfy University General Education Program Requirement

## **Music - Music History Concentration, (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commercial Music concentration. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

The Major (85-90 hours)

Major Core (36 - 43 hours)

Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I

- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III

or

- MUTC 4210 - Music Theory: Popular Styles
- MUTC 2010 - Ear Training III

### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I

### Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

### Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

### Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

### History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

## Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

## Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

## With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Concentration (42 hours except Music Education)

### Music History:

- Individual instruction in applied music (10)
- MUHL 4259 - Studies in Bibliography
  - Electives (11)
  - Advanced Music History (9)
  - Foreign Language: 6 semester hours in addition to requirements for admission (6)
- MUHL 4999 - Music History Senior Project

### Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Music History Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Social/Behavioral Sciences (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (2)
  - MUAP (small ensemble) (1)
- MUID 1001 - Intro Music Technology
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences (3) \*
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
  - MUAP (applied music) (2)
  - MUAP (ensemble) (1)

## Semester Totals 29 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - History (3) \*
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
  - MUAP (applied music) (2)
  - MUAP (large ensemble) (1)
- MUAP 2107 - Class Instruction in Piano III
  - Foreign Language (3)
  - MATH (3) \*
- MUAP 2108 - Class Instruct Piano IV
  - History (3) \*
  - MUAP (ensemble) (1)
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV
  - MUAP (applied music) (2)
  - Foreign Language (3)

## Semester Totals 34 hrs

### Junior Year

- Natural Science (4) \*
- MUHL 3301 - History of Music to 1750
  - MUAP (applied music) (2)
- MUSE 3700 - Basic Conducting
  - MUAP (ensemble) (1)
- COMM 2381 - Oral Communication
  - Natural Sciences (4) \*
  - Concentration elective (3)
- MUHL 3302 - History of Music Since 1750
  - Concentration elective (2)
  - MUAP (ensemble) (1)
  - MUHL elective (3) \*\*\*

## Semester Totals 31 hrs

### Senior Year

- Concentration Elective (2)

- MUHL elective (3)
- MUHL elective (3)
- MUHL 4259 - Studies in Bibliography
  - MUAP (ensemble) (1)
- MUHL 4999 - Music History Senior Project
  - MUHL elective (3) \*\*\*
  - MUAP (ensemble) (1)
  - Concentration elective (2)
  - Concentration elective (2)
  - MUTC elective (3)

Semester Totals 26 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one from MUTC 3101 MUTC 3102 MUTC 3109 MUTC 3201 MUTC 4205, MUTC 4206 MUTC 4210

\*\*\*Choose one from MUHL 4008, MUHL 4009, MUHL 4010, MUHL 4013 MUHL 4406 MUHL 4407 MUHL 4800 MUHL 4801 MUHL 4805 MUHL 4806 MUHL 4807

## **Music - Performance Concentration, (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3301 and MUHL 3302 for Music majors (excluding Jazz concentrations), MUHL 3303 and MUHL 4806 for Jazz and Studio Performance and Jazz Composition and Arranging concentrations., and MUHL 3303 and elective MUHL 4XXX for Commercial Music concentration. Students in Music Education must take PSYC 1030 for one of the Social/Behavioral Sciences requirements.

## The Major (85-90 hours)

### Major Core (36 - 43 hours)

#### Completion of (16 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV

#### Commercial Music Take (12 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III

#### Theory Elective (One From the Following):

(Music Education is exempt)

- MUTC 3101 - Orchestration
- MUTC 3102 - Analysis of Tonal Music
- MUTC 3109 - Analysis of Post-Tonal Music
- MUTC 3201 - Jazz Arrange/Orchestration
- MUTC 3301 - Commercial Music Arranging
- MUTC 4205 - 16th Cent Counterpoint
- MUTC 4206 - 18th Cent Counterpoint
- MUTC 4210 - Music Theory: Popular Styles

#### Jazz and Commercial Music Take (3 hours)

- MUTC 2103 - Theory Jazz/Pop/Commercial I



## Music History

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750

## Jazz Take (6 hours)

- MUHL 3303 - Western Music History
- MUHL 4806 - History of Jazz

## Commercial Music Take

- MUHL 3303 - Western Music History
  - 4XXX

## History Elective (One From the Following) (3 hours):

- MUHL 4008 - The Symphony
- MUHL 4009 - Choral Literature I
- MUHL 4010 - Choral Literature II
- MUHL 4013 - Women and Music
- MUHL 4406 - Music since 1900
- MUHL 4407 - History of Opera
- MUHL 4800 - World Musical Styles
- MUHL 4801 - American Folk/Popular Music
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music (Music Education is exempt)

## Basic Conducting (2 hours)

- MUSE 3700 - Basic Conducting

## Piano

- MUAP 1105 - Class Inst Piano I
- MUAP 1106 - Class Instr Piano II
- MUAP 2107 - Class Instruction in Piano III
- MUAP 2108 - Class Instruct Piano IV

## With Two Exceptions:

Music Education instrumental majors are not required to take MUAP 2108 and Jazz and Commercial Music majors must take MUAP 1105, MUAP 1106, MUAP 1116. Jazz majors take a proficiency examination administered by the jazz faculty. All undergraduate Music majors, irrespective of concentration, must take a piano placement examination before enrolling in the School of Music. This evaluation will place students in the appropriate course in the class-piano sequence. All piano proficiency requirements as appropriate to the concentration must be passed before graduation (or, for Music Education majors, before student teaching). Students already proficient in piano may be permitted to bypass the class-piano sequence and enroll in MUSE 3101, which will satisfy this requirement and any student may choose to take the departmental Piano Proficiency Examination in lieu of coursework. Since the requirements for this exam vary according to the area of concentration, contact the Coordinator of Class Piano for specific details.

## Intro Music Technology

- MUID 1001 - Intro Music Technology

## Ensemble Requirement:

All Music majors must take a minimum of eight (8) semesters of ensemble. The specific requirements for this are determined by each division and degree program. Please consult with your adviser for the specific outline for your applied area and degree program exceptions. Music Education Instrumental students must take two semesters of Marching Band (string players exempt) and one semester of University Singers, Chamber Choir, or Collegiate Choir as part of their ensemble requirement.

## Concert Attendance:

All Music majors are required to attend a minimum of 100 concerts or recitals in the four-year program (suggested 25 per year). Records will be maintained in by the School of Music on the number of events attended by each student and an annual report will be filed with the Director.

## Concentration (42 hours except Music Education)

### Performance

Instruction in performance leading to the Bachelor of Music in Music with a concentration in Performance is provided for the following areas: Trumpet, Horn, Trombone, Tuba, and Euphonium (Brass Instruments); Piano, Harpsichord, and Organ (Keyboard Instruments); Percussion; Violin, Viola, Violoncello, Bass, Guitar, and Harp (String Instruments), Flute, Oboe, Clarinet, Saxophone, and Bassoon (Woodwind Instruments); Voice.

## Individual Instruction in Major Performance Area (24 hours)

### Instruction in Secondary Performance Area, Repertory, and/or Pedagogy (6 hours):

#### For Brass Instruments:

- MUHL 4020 - Solo Brass Literature
- MUSE 4514 - Brass Pedagogy

#### For Woodwind Instruments:

- MUSE 4521 - Woodwind Pedagogy
- MUAP 4004 - Orchestral Excerpts

In addition, Bassoon and Oboe take:

- MUAP 4263 - Reed Making

#### Flute and Saxophone Players Should Take

- MUAP 3701 - Woodwind Ensemble instead of reed making

#### For Percussion:

- MUHL 4030 - Percussion Repertory
- MUSE 4520 - Percussion Pedagogy

#### For Bowed Strings:

6 hours chosen from

- MUHL 4500 - String Repertory
- MUAP 4004 - Orchestral Excerpts
- MUHL 4008 - The Symphony
- MUHL 4022 - Early Chamber Music
- MUHL 4011 - String Quartet Literature
- MUSE 4506 - Suzuki String Pedagogy I
  - and/or up to 2 hours of an approved secondary string instrument

#### For Guitar:

- MUHL 4015 - Guitar Literature

- MUSE 4251 - Guitar Pedagogy

### For Voice:

- MUSE 4523 - Vocal Pedagogy
- MUHL 4002 - Song Repertory I
- MUHL 4003 - Song Repertory II

### For Piano:

- MUHL 4001 - Piano Repertory
- MUSE 4501 - Piano Pedagogy I
- MUSE 4505 - Collab Piano Technique

### Junior Recital (1 hour)

### Artist Recital (4 hours)

- MUAP 4999 - Artist Recital

### Small Ensembles (4-6 hours)

Four semesters of small ensembles, chosen from those listed under "Small Ensembles and Chamber Music" in consultation with the major advisor, is required. Piano performance students must take a minimum of four (4) semesters of MUAP 3301, Chamber Music for Keyboard, as part of the music core requirements for ensembles.

For students in voice, MUSE 4211 - Vocal Diction I, MUSE 4212 - Vocal Diction II, and a demonstrated proficiency equivalent to the first semester university level courses in French, German, and Italian.

For Piano performance students, the following is to be taken in lieu of the four hours of class piano: MUSE 3101 Functional Keyboard Skills, MUAP 1320, Harpsichord, and MUAP 1330, Organ.

### Music Electives

As needed to satisfy 120 hours degree requirement.

### Electives (0 - 12 hours)

Completion of elective courses to bring the total to a minimum of 120 semester hours (124 or 125 for students in the Music Education concentration depending on emphasis). Courses will be chosen by the student in consultation with the advisor and major professor.

## Typical 4-Year Performance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Social/Behavioral Sciences (3) \*
- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (3)
  - MUAP (large ensemble) (1)
- MUID 1001 - Intro Music Technology
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences (3) \*
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
- MUAP 1106 - Class Instr Piano II
  - MUAP (applied music) (3)
  - MUAP (large ensemble) (1)

Semester Totals 31 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MUTC 2008 - Music Theory III
- MUTC 2010 - Ear Training III
  - MUAP (applied music) (3)
- MUAP 2107 - Class Instruction in Piano III
  - MUAP (ensemble) (1)
  - MUAP (small ensemble) (1)
  - History (3) \*
  - Small ensemble (1)
  - MATH (3) \*
  - History (3) \*
- MUTC 3008 - Music Theory IV
- MUTC 3009 - Ear Training IV
- MUAP 2108 - Class Instruct Piano IV
  - MUAP (applied music) (3)
  - MUAP (ensemble) (1)

## Semester Totals 32 hrs

### Junior Year

- Natural Science (4) \*
- Small ensemble (1)
- MUHL 3301 - History of Music to 1750
  - MUAP (ensemble) (1)
- COMM 2381 - Oral Communication
  - MUAP (applied music) (4)
  - Natural Science (4) \*
  - MUTC (3) \*\*
- MUHL 3302 - History of Music Since 1750
  - MUAP (applied music) (4)
  - MUAP (ensemble) (1)
- MUAP 3999 - Junior Recital

## Semester Totals 32 hrs

### Senior Year

- MUHL Elective (3)
- Music Elective (3)
- MUAP (ensemble) (1)
- MUSE 3700 - Basic Conducting
  - MUAP (applied music) (4)
- MUAP 4999 - Artist Recital
  - Music Elective (3)
  - Music Elective (3)
  - UD elective (3)
  - MUAP (ensemble) (1)
  - MUAP (small ensemble) (1)

## Semester Totals 25 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Choose one from MUTC 3101 MUTC 3201 MUTC 3301 MUTC 4205 MUTC 4206 MUTC 4210

\*\*\*Choose one from MUHL 4008 MUHL 4010 MUHL 4013 MUHL 4406 MUHL 4407 MUHL 4800 MUHL 4801 MUHL 4805 MUHL 4806 MUHL 4807

## Clarinet Chooses from

- MUAP 3701 - Woodwind Ensemble
- MUAP 4004 - Orchestral Excerpts

## Music Industry - Music Business Concentration, (B.M.)

### University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3303 and MUHL 48XX. Note the following B.M. degree with a major in Music Industry program specifications: (1) Music Business must complete ECON 2010 and ECON 2020 to fulfill the Social/Behavioral Sciences requirement; (2) for the mathematics requirement, Music Business must complete MATH 1530 and Recording Technology must complete MATH 1830; (3) PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121 (Natural Science requirement) is recommended for the Recording Technology concentration. The Humanities category is satisfied for students who meet all B.M. requirements.

### The Major (85 hours)

#### Major Core (29 hours)

- MUTC 1008 - Music Theory I
- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III
- MUHL 3303 - Western Music History
  - MUAP xxxx (ensembles) (2)
- MUAP 1105 - Class Inst Piano I
- MUAP 1116 - Jazz Class Piano
  - 1xxx (applied instruction) (4)
- MUID 3103 - Contmp Songwrt/Prod Technique

#### Choose One:

- MUHL 4801 - American Folk/Popular Music
- MUHL 4804 - Blues

- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music
  - 50 concert/recital attendance requirements prior to graduation.

## Music Business (56 hours)

- ACCT 2010 - Fundamentals of Acct I
- ACCT 3011 - Business Law
- FIR 1220 - Personal Financial Management
- PBRL 3400 - Survey of Public Relations
- JRSM 3900 - Visual Media
- MGMT 3110 - Organization and Mgmt
- MGMT 3510 - Business Communications
- MKTG 3010 - Principles of Marketing
- MUID 1001 - Intro Music Technology
- MUID 2201 - Intro to Music Industry
- MUID 3105 - Music Marketing & Management
- MUID 3506 - Music Distribution
- MUID 4604 - Legal Aspects Music Industry
- MUID 4825 - Concerts and Touring
- MUID 4840 - Entrepreneurship Comm Music
- MUID 4850 - Record Company Operations I
- MUID 4851 - Record Company Operations II
- MUID 4898 - Sr Proj Music Bus/Rec Technlgy
- MUID 4899 - Internship

## Electives (0 - 3 hours)

Elective courses may be chosen to bring the total number of hours to 120.

## Typical 4-Year Music Business Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1530 - Prob/Statistics/Non Calculus
  - Natural Science (4) \*
- MUTC 1008 - Music Theory I
  - Applied music (1)
- MUTC 1010 - Ear Training I
- MUAP 1105 - Class Inst Piano I
- ENGL 1020 - English Comp/Analysis
- MUTC 1009 - Music Theory II
  - Natural Science (4) \*
- MUAP 1116 - Jazz Class Piano
- MUID 2201 - Intro to Music Industry
  - MUAP (applied music) (1)



- MUTC 1011 - Ear Training II
- MUID 1001 - Intro Music Technology

## Semester Totals 32 hrs

## Sophomore Year

- MUTC 2008 - Music Theory III
- or
- MUTC 4210 - Music Theory: Popular Styles
  - History (3) \*
- ACCT 2010 - Fundamentals of Acct I
  - MUAP (applied music) (1)
  - MUAP Ensemble (1)
- ECON 2010 - Intro to Macroeconomics
- MUTC 2010 - Ear Training III
- COMM 2381 - Oral Communication
  - History (3) \*
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - MUAP (applied music) (1)
- ECON 2020 - Intro to Microeconomics
  - Ensemble (1)

## Semester Totals 29 hrs

## Junior Year

- MKTG 3010 - Principles of Marketing
- ACCT 3011 - Business Law
- MUID 3506 - Music Distribution
- MUHL 3303 - Western Music History
- MUID 4604 - Legal Aspects Music Industry
- MGMT 3110 - Organization and Mgmt
- MUID 3105 - Music Marketing & Management
- MUID 3103 - Contmp Songwrt/Prod Technique
- MUID 4825 - Concerts and Touring
- PBRL 3400 - Survey of Public Relations

## Semester Totals 30 hrs

## Senior Year

- MUID 4840 - Entrepreneurship Comm Music
- MUID 4850 - Record Company Operations I
- FIR 1220 - Personal Financial Management
- MUID 4899 - Internship
- JRSM 3900 - Visual Media
- MUID 4851 - Record Company Operations II
- MGMT 3510 - Business Communications
- MUID 4898 - Sr Proj Music Bus/Rec Technlgy
  - MUHL (3) \*\*

Semester Totals 29 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\* Choose one: MUHL 4801, MUHL 4804, MUHL 4805, MUHL 4806, MUHL 4807

## **Music Industry - Recording Technology Concentration, (B.M.)**

University General Education Program (35 hours in addition to 6 hours of Music History)

See Graduation from the University for the University General Education Program requirements. Six hours of Humanities are satisfied by taking MUHL 3303 and MUHL 48XX. Note the following B.M. degree with a major in Music Industry program specifications: (1) Music Business must complete ECON 2010 and ECON 2020 to fulfill the Social/Behavioral Sciences requirement; (2) for the mathematics requirement, Music Business must complete MATH 1530 and Recording Technology must complete MATH 1830; (3) PHYS 2110/PHYS 2111 and PHYS 2120/PHYS 2121 (Natural Science requirement) is recommended for the Recording Technology concentration. The Humanities category is satisfied for students who meet all B.M. requirements.

The Major (85 hours)

Major Core (29 hours)

- MUTC 1008 - Music Theory I

- MUTC 1010 - Ear Training I
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  
- MUTC 2008 - Music Theory III
  
- or
  
- MUTC 4210 - Music Theory: Popular Styles
  
- MUTC 2010 - Ear Training III
- MUHL 3303 - Western Music History
  - MUAP xxxx (ensembles) (2)
- MUAP 1105 - Class Inst Piano I
- MUAP 1116 - Jazz Class Piano
  - 1xxx (applied instruction) (4)
- MUID 3103 - Contmp Songwrt/Prod Technique

### Choose One:

- MUHL 4801 - American Folk/Popular Music
- MUHL 4804 - Blues
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music
  - 50 concert/recital attendance requirements prior to graduation.

### Recording Technology (50 hours)

- MUID 2201 - Intro to Music Industry
- MUID 3800 - Recording Studio Technology
- MUID 3801 - Digital Data Structures
- MUID 3901 - Critical Listening I
- MUID 3902 - Critical Listening II
- MUID 3903 - Critical Listening III
- MUID 3905 - Digital Audio Workstations
- MUID 4604 - Legal Aspects Music Industry
- MUID 4800 - Basic Recording
- MUID 4802 - Advanced Recording
- MUID 4803 - Adv Mix/Master Audio
- MUID 4811 - Studio Maintenance Practicum
- MUID 4822 - Applied Lessons in Recording
- MUID 4830 - Trends Business Pract/Tech
- MUID 4833 - Applied Lessons in Mixing
- MUID 4840 - Entrepreneurship Comm Music
- MUID 4850 - Record Company Operations I
- MUID 4898 - Sr Proj Music Bus/Rec Technlgy
- MUID 4899 - Internship
- TECH 1811 - Electronic Circuit Technology
- TECH 2821 - Solid State Technology

### Recording Technology Elective Path (6 hours)

Students are to complete the elective hours in one academic area. Electives are to be chosen from an approved list of classes, which is available from the student's advisor.

## Electives (0 - 3 hours)

Elective courses may be chosen to bring the total number of hours to 120.

## Typical 4-Year Recording Technology Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1830 - Elementary Calculus
  - Social/Behavioral Sciences (3) \*
- MUTC 1008 - Music Theory I
- MUAP 1105 - Class Inst Piano I
  - MUAP (applied music) (1)
- MUTC 1010 - Ear Training I
- ENGL 1020 - English Comp/Analysis
- MUID 2201 - Intro to Music Industry
  - Social/Behavioral Sciences (3) \*
- MUAP 1116 - Jazz Class Piano
- MUTC 1009 - Music Theory II
- MUTC 1011 - Ear Training II
  - MUAP (applied music) (1)
- TECH 1811 - Electronic Circuit Technology

### Semester Totals 32 hrs

### Sophomore Year

- MUTC 2008 - Music Theory III
- or
- MUTC 4210 - Music Theory: Popular Styles
- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- TECH 2821 - Solid State Technology
  - MUAP (applied music) (1)
- MUID 3800 - Recording Studio Technology
  - Music ensemble (1)

- MUID 3901 - Critical Listening I
- MUTC 2010 - Ear Training III
- MUID 4800 - Basic Recording
  - Music Ensemble (1)
- MUID 3905 - Digital Audio Workstations
- MUID 3801 - Digital Data Structures
  - MUAP (applied music) (1)
- MUID 3902 - Critical Listening II

Semester Totals 28 hrs

## Junior Year

- Elective (3)
- MUID 4811 - Studio Maintenance Practicum
- MUID 4822 - Applied Lessons in Recording
- MUID 4802 - Advanced Recording
- MUID 3903 - Critical Listening III
  - Natural Science (4) \*
- MUID 4604 - Legal Aspects Music Industry
  - Elective (3)
- MUID 4833 - Applied Lessons in Mixing
  - History (3) \*
- MUID 4803 - Adv Mix/Master Audio
- MUID 3103 - Contmp Songwrt/Prod Technique
- MUID 4899 - Internship

Semester Totals 31 hrs

## Senior Year

- MUID 4840 - Entrepreneurship Comm Music
  - History (3) \*
  - MUHL (3) \*\*
- MUID 4850 - Record Company Operations I
- MUID 4830 - Trends Business Pract/Tech
  - Natural Science (4) \*
- MUHL 3303 - Western Music History
- COMM 2381 - Oral Communication
- MUID 4898 - Sr Proj Music Bus/Rec Technlgy

Semester Totals 29 hrs

Total Hours: 120

## Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\* Choose one: MUHL 4801, MUHL 4804, MUHL 4805, MUHL 4806, MUHL 4807

## Minor

### Music Minor

#### Requirements

Students wishing to minor in music should contact the School of Music Audition Coordinator to declare Music as their minor and schedule appropriate placement test. The minor in Music consists of 21 credit hours and is available to any student who completes the following requirements:

Applied Music Individual Instruction (4 hours)

2 Semesters Appropriate Ensembles (2 hours)

Music Theory (6 hours)

- MUTC 1008 - Music Theory I
- MUTC 1009 - Music Theory II

Choose One From (3 hours)

- MUHL 3301 - History of Music to 1750
- MUHL 3302 - History of Music Since 1750
- MUHL 3303 - Western Music History

## Upper Division Electives (6 hours)

### In Addition

All music minors are required to attend a minimum of 25 concerts or recitals.

## Theatre and Dance

The Bachelor of Fine Arts degree is a program specifically designed for students whose certain interests and abilities strongly suggest the potential for pursuing careers as artists in the resident, professional, community, or academic theatre.

To expand the student's creative powers and deepen the commitment to a vocation in the theatre, the B.F.A. program offers the student (1) a basic probing of all the arts and crafts of the theatre and dance; (2) an exploration in depth of one area of special interest; (3) the opportunity to participate creatively as a theatre or dance artist through extensive production experience.

Four concentrations are offered: (1) Performance, (2) Musical Theatre, (3) Dance and (4) Design and Technical Production. Students entering the B.F.A. program will elect one of these four concentrations. The University of Memphis is an accredited institutional member of the National Association of Schools of Theatre (NAST).

**Admission and Retention Criteria:** Admission to the concentration in Performance or Musical Theatre is by audition. Admission to the concentration in Dance is by application only. Admission to the concentration in Design and Technical Production is by interview. Admission to the concentration in Performance with an emphasis in dance is by application only. To remain in good standing as a major in Theatre and Dance, the student must be evaluated through the evaluation and interview, or portfolio and interview process. Following their examination and interview, or portfolio and interview, applicants will be notified as to whether they have been accepted into the program, accepted for one more semester on a probationary basis, or advised to pursue another degree.

1. Performance: Retention in the Performance concentration is based on a required annual examination and interview. In addition to the interview, the student is expected to present an audition package consisting of two contrasting monologues from plays of distinctly different styles or periods, and depending on the student's preference, 16-32 bars of a song. The duration of material to be presented will vary based on the student's standing in the program and is at the discretion of the faculty.
2. Musical Theatre: Retention in the Musical Theatre concentration is based on a required annual examination and interview. In addition to the interview, the student is expected to present an audition package consisting of monologues from plays, songs from the musical theatre canon, and a demonstration of dance styles specific to the genre. The duration of material to be presented will vary based on the student's standing in the program and is at the discretion of the faculty.
3. Dance: Retention is based on recommendation of dance faculty.
4. Design and Technical Production: Retention in the Design and Technical Production concentration is based on an annual required portfolio review and interview. In addition to the interview, the student is expected to present a portfolio of artistic and production work. This may consist of items including photographs, sketches, costume plates, elevations, lighting plots, ground plans, and audio designs.

The fact must be emphasized that admission to the B.F.A curriculum does not imply a student's permanent tenure in the program. Beyond the audition interview or portfolio review, the student's active participation in the co-curricular activities of the department will be assessed by the theatre and dance faculty. Artistic growth, development of technical facility, and continuing commitment to creative excellence on the part of the student will be evaluated. Permission to continue in the program will be based on this evaluation.

Former B.F.A. students who have left the program for a fall or spring term must apply for readmission to the department. A new audition or interview may be required at the discretion of the faculty. The readmission process is not required if the absence is approved by the area coordinator and the department chair in advance.

Internship (THEA 4541): The intent of this requirement and course is to provide the student experience in a full-time theatre or dance related production situation. Off-campus participation (usually following the junior year) is an essential element of the B.F.A. program. Details are to be planned in advance in conference with the student's advisor.

**Transfer of Credit:** In certain cases students may be admitted to an advanced level of the B.F.A. program. Such admission will be based upon a departmental advisor's evaluation of previous course work and theatre experience. Even if admitted to an advanced standing, the student will be required to remedy previous course deficiencies.

**Advising:** Upon application to the B.F.A. program, each student will be assigned a faculty advisor. For this degree, 120 semester hours are required for graduation. A minimum grade of "C-" is required in all departmental courses applicable to the major. The student must maintain an overall grade point average of 2.0. A 2.0 cumulative GPA is required for all courses completed in the major.

## Major

### Theatre - Dance Concentration, (B.F.A.)

#### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that DANC 1151 or THEA 1030 and THEA 4548 or THEA 4549 will satisfy the General Education Humanities requirement. However, a minimum grade of "C-" is required in all departmental courses applicable to the major. Dance majors are required to take MUS 1030 as a second Humanities/Fine Arts requirement.

#### The Major (79 hours)

#### Major Core (11 hours)

Completion of

- THEA 1561 - Introduction to Design
- or
- THEA 2511 - Intro Theatre Production
- THEA 3412 - Directing Experiments
  - THEA 3601-3609
- THEA 4541 - Internship

#### Note

While not listed within the previous course numbers, please note that DANC 1151 , THEA 4548 and THEA 4549 are courses that are used to satisfy a Humanities/Fine Arts General Education requirement. Transfer students who have completed the Humanities/Fine Arts requirements and have not taken any of these in order to fulfill the requirements of the concentration must do so as a department elective.



## Concentration (68 hours)

### Dance

- DANC 2101 - Dance Improvisation
- DANC 2825 - Ballet II Credits / Units: 12
- DANC 3201 - Dance Movement Analysis
- DANC 3829 - Adv Dance Techniques Credits / Units: 12
- DANC 4101 - Dance Repertory
- DANC 4201 - Dance Composition
- DANC 4202 - Adv Dance Composition
- DANC 4402 - Dance Ed/Diverse Setting
- DANC 4404 - Dance Teaching Methods

### Remaining Courses

Remaining courses are dance and acting emphasis electives (15) and free electives (5) approved the student's advisor.

## Typical 4-Year Dance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Social Science (3) \*
- DANC 1151 - Introduction to Dance
  - DANC Elective (3)
- THEA 2511 - Intro Theatre Production or
- THEA 1561 - Introduction to Design
  - THEA 3601-THEA 3609
- ENGL 1020 - English Comp/Analysis
  - Social Science (3) \*
  - DANC Elective (3)
- THEA 3412 - Directing Experiments
  - THEA 3601-THEA 3609
- MUS 1030 - Introduction to Music

### Semester Totals 32 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American

- DANC Elective (3)
- DANC 2101 - Dance Improvisation
- DANC 4201 - Dance Composition
- THEA 2501 - Stage Movement
  
- COMM 2381 - Oral Communication
  - History (3) \*
  - MATH (3) \*
- DANC 2827 - Jazz Dance II
- DANC 4202 - Adv Dance Composition

Semester Totals 30 hrs

## Junior Year

- DANC 2825 - Ballet II
- DANC 3101 - History of Dance
- DANC 3829 - Adv Dance Techniques
- DANC 4101 - Dance Repertory

DANC Elective

- DANC 4402 - Dance Ed/Diverse Settng
  - Natural Science
  - DANC 2825
  - DANC 3829

Semester Totals 28 hrs

## Senior Year

- History (3) \*
- DANC 2825 - Ballet II
- DANC 3201 - Dance Movement Analysis
- DANC 3829 - Adv Dance Techniques
- THEA 4541 - Internship
  
- DANC 4404 - Dance Teaching Methods
  - Natural Science (4) \*
  - Elective (3)
  - DANC 2825 - Ballet II (3)
  - DANC 3829 - Adv Dance Techniques (3)

Semester Totals 30 hrs

Total Hours: 120

Total Hours required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Theatre - Design and Technical Production Concentration, (B.F.A.)**

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that DANC 1151 or THEA 1030 and THEA 4548 or THEA 4549 will satisfy the General Education Humanities requirement. However, a minimum grade of "C-" is required in all departmental courses applicable to the major. Dance majors are required to take MUS 1030 as a second Humanities/Fine Arts requirement.

The Major (79 hours)

Major Core (11 hours)

Completion of

- THEA 1561 - Introduction to Design
- or
- THEA 2511 - Intro Theatre Production
- THEA 3412 - Directing Experiments
  - THEA 3601-3609
- THEA 4541 - Internship

### Note

While not listed within the previous course numbers, please note that DANC 1151 , THEA 4548 and THEA 4549 are courses that are used to satisfy a Humanities/Fine Arts General Education requirement. Transfer students who have completed the Humanities/Fine Arts requirements and have not taken any of these in order to fulfill the requirements of the concentration must do so as a department elective.

## Concentration (68 hours)

### Design and Technical Production:

- THEA 1561 - Introduction to Design

or

- THEA 2511 - Intro Theatre Production (whichever is not taken as part of the Major Core)
- THEA 2512 - Intro Theatre Graphics
- THEA 3511 - Stagecraft

or

- THEA 3515 - Costume Construction
- THEA 3561 - Principles Scene Design
- THEA 3562 - Principles Costume Dsgn
- THEA 3563 - Principles of Light& Sound Design
  - THEA 3601-3609
- THEA 4542 - Dramatic Literature I
- THEA 4543 - Dramatic Literature II
- THEA 4582 - Script Interpretation
- THEA 4591 - Professional Theatre Practice

### Ten hours of Technology Courses:

- THEA 4555 - Scenic Technology
- THEA 4556 - Lighting Technology
- THEA 4557 - Costume Technology

### Sixteen hours of Design courses:

- THEA 4561 - Scenic Design I
- THEA 4562 - Lighting Design I
- THEA 4563 - Costume Design I
- THEA 4596 - Sound Design I

### Remaining Credits (6)

Remaining credits (6) are Design and Technical courses, other department courses, or non-department electives approved by the student's advisor.

## Typical 4-Year Design and Technical Production Concentration Sequence

## Freshman Year

- ENGL 1010 - English Composition
  - MATH (3) \*
  - History (3) \*
- THEA 1030 - Intro to Theatre
- THEA 1561 - Introduction to Design
  - THEA 3601-THEA 3609
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences (3) \*
  - History (3) \*
- THEA 2511 - Intro Theatre Production
- THEA 2512 - Intro Theatre Graphics
  - THEA 3601-THEA 3609

Semester Totals 32 hrs

## Sophomore Year

- Natural Science (4) \*
- Social/Behavioral Sciences (3) \*
- Elective
- Design Course
- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American
- THEA 3561 - Principles Scene Design or
- THEA 3562 - Principles Costume Dsgn
- COMM 2381 - Oral Communication
- THEA 3511 - Stagecraft
- THEA 3412 - Directing Experiments
- THEA 3563 - Principles of Light& Sound Design
  - Technology Course
- THEA 4582 - Script Interpretation

Semester Totals 34 hrs

## Junior Year

- THEA 3561 - Principles Scene Design or
- THEA 3562 - Principles Costume Dsgn
  - Design Course
  - Design Course
  - THEA 3601-THEA 3609
  - Technology Course
- THEA 4554 - Visual History I
  - Technology Course
  - Design Course

- THEA 4549 - Theatre History
  - THEA 3601-THEA 3609
- THEA 4558 - Visual History II
  - Elective (3)

Semester Totals 27 hrs

## Senior Year

- Technology Course
- THEA 4541 - Internship
- THEA 4542 - Dramatic Literature I
  - Design Course
  - Design Course
  - THEA 3601-THEA 3609
- THEA 4591 - Professional Theatre Practice
  - Natural Science (3)
  - THEA 3601-THEA 3609
  - Design Course
  - Design Course
  - Elective (3)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Theatre - Musical Theatre Concentration, (B.F.A.)**

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that DANC 1151 or THEA 1030 and THEA 4548 or THEA 4549 will satisfy the General Education Humanities requirement. However, a minimum grade of "C-" is required in all departmental courses applicable to the major. Dance majors are required to take MUS 1030 as a second Humanities/Fine Arts requirement.

## The Major (79 hours)

### Major Core (11 hours)

Completion of

- THEA 1561 - Introduction to Design
- or
- THEA 2511 - Intro Theatre Production
- THEA 3412 - Directing Experiments
  - THEA 3601-3609
- THEA 4541 - Internship

### Note

While not listed within the previous course numbers, please note that DANC 1151 , THEA 4548 and THEA 4549 are courses that are used to satisfy a Humanities/Fine Arts General Education requirement. Transfer students who have completed the Humanities/Fine Arts requirements and have not taken any of these in order to fulfill the requirements of the concentration must do so as a department elective.

## Concentration (68 hours)

### Musical Theatre

- THEA 2501 - Stage Movement
- THEA 2503 - Basic Keyboard Skills/Actors
- THEA 2532 - Acting I
  - THEA 3200
- THEA 3212 - Dynamics/Vocal Prod I
- THEA 3213 - Dynamics/Vocal Prod II
- THEA 3531 - Acting II
- THEA 3551 - Audition Prep Performance
  - THEA 3601-3609
- THEA 4220 - Acting/Musical Theatre
- THEA 4223 - Musical Theatre Performance Practicum
- THEA 4224 - Principle/Music Theory/Theatre
- THEA 4542 - Dramatic Literature I
- THEA 4548 - Musical Theatre History
- THEA 4582 - Script Interpretation
- THEA 4591 - Professional Theatre Practice

### Remaining Courses

Remaining courses are Dance elective (12) and free electives (8) approved by the student's advisor.

## Typical 4-Year Musical Theatre Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
- THEA 1030 - Intro to Theatre
- THEA 2511 - Intro Theatre Production or
- THEA 1561 - Introduction to Design
- THEA 2501 - Stage Movement
- THEA 2503 - Basic Keyboard Skills/Actors
- THEA 4224 - Principle/Music Theory/Theatre
  
- ENGL 1020 - English Comp/Analysis
  - Social/Behavioral Sciences (3) \*
  - MATH (3) \*
  - History (3) \*
- THEA 3412 - Directing Experiments
  - THEA 3601-THEA 3609

Semester Totals 32 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American
- THEA 3212 - Dynamics/Vocal Prod I
  - DANC (Ballet) (3)
- THEA 3200 - Musical Theatre Applied Voice
- THEA 2532 - Acting I
  - THEA 3601-THEA 3609
  
- COMM 2381 - Oral Communication
  - History (3) \*
  - THEA 3200 - Musical Theatre Applied Voice (1)
  - DANC (Ballet)
- THEA 3213 - Dynamics/Vocal Prod II
- THEA 3531 - Acting II



Semester Totals 30 hrs

## Junior Year

- THEA 3200 - Musical Theatre Applied Voice
- THEA 3551 - Audition Prep Performance
- DANC 3826 - Musical Theatre Dance I
  - Elective (3)
  - THEA 3601-THEA 3609
- THEA 4220 - Acting/Musical Theatre
  
- THEA 4223 - Musical Theatre Performance Practicum
  - Social/Behavioral Sciences (3) \*
  - THEA 3200 - Musical Theatre Applied Voice (1)
- THEA 4548 - Musical Theatre History
- DANC 3827 - Musical Theatre Dance II
  - THEA 3601-THEA 3609

Semester Totals 28 hrs

## Senior Year

- Natural Science (4) \*
- THEA 3200 - Musical Theatre Applied Voice
- THEA 4542 - Dramatic Literature I
- THEA 4541 - Internship
- THEA 4582 - Script Interpretation
  - Elective (3)
  
- THEA 4549 - Theatre History
  - THEA 3200
  - Natural Science (4) \*
- THEA 4591 - Professional Theatre Practice
  - Elective (3)

Semester Totals 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Theatre - Performance Concentration, (B.F.A.)

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that DANC 1151 or THEA 1030 and THEA 4548 or THEA 4549 will satisfy the General Education Humanities requirement. However, a minimum grade of "C-" is required in all departmental courses applicable to the major. Dance majors are required to take MUS 1030 as a second Humanities/Fine Arts requirement.

### The Major (79 hours)

#### Major Core (11 hours)

Completion of

- THEA 1561 - Introduction to Design
- or
- THEA 2511 - Intro Theatre Production
- THEA 3412 - Directing Experiments
  - THEA 3601-3609
- THEA 4541 - Internship

#### Note

While not listed within the previous course numbers, please note that DANC 1151 , THEA 4548 and THEA 4549 are courses that are used to satisfy a Humanities/Fine Arts General Education requirement. Transfer students who have completed the Humanities/Fine Arts requirements and have not taken any of these in order to fulfill the requirements of the concentration must do so as a department elective.

### Concentration (68 hours)

#### Performance

- THEA 2501 - Stage Movement
- THEA 2532 - Acting I
- THEA 3212 - Dynamics/Vocal Prod I
- THEA 3213 - Dynamics/Vocal Prod II
- THEA 3505 - Movement Styles
- THEA 3506 - Stage Combat

- THEA 3531 - Acting II
- THEA 3532 - Acting III
- THEA 3551 - Audition Prep Performance
  - THEA 3601-3609
- THEA 4457 - Vocal Style/Performance
- THEA 4542 - Dramatic Literature I
- THEA 4582 - Script Interpretation
- THEA 4591 - Professional Theatre Practice

## Remaining Courses

Remaining courses are acting emphasis electives (18) and free electives (9) approved by the student's advisor.

## Typical 4-Year Performance Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3) \*
  - History (3) \*
- THEA 1030 - Intro to Theatre
  - THEA 3601-THEA 3609
- THEA 2511 - Intro Theatre Production or
- THEA 1561 - Introduction to Design
  
- ENGL 1020 - English Comp/Analysis
  - Natural Science (4) \*
  - History (3) \*
- THEA 3412 - Directing Experiments
  - THEA 3601-THEA 3609
  - Social/Behavioral Sciences (3) \*

### Semester Totals 33 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American
- THEA 3212 - Dynamics/Vocal Prod I
- THEA 2501 - Stage Movement
- THEA 2532 - Acting I
  - THEA 3601-THEA 3609
  - Elective
  
- COMM 2381 - Oral Communication
- THEA 3505 - Movement Styles

- THEA 3213 - Dynamics/Vocal Prod II
  - THEA 3601-THEA 3609
- THEA 3531 - Acting II
- THEA 4582 - Script Interpretation

Semester Totals 32 hrs

## Junior Year

- THEA 3551 - Audition Prep Performance
  - Social/Behavioral Sciences (3) \*
- THEA 3532 - Acting III
- THEA 4557 - Costume Technology
  - Elective (3)
  
- THEA 3506 - Stage Combat
  - Elective (3)
  - Elective (3)
- THEA 4549 - Theatre History

Semester Totals 27 hrs

## Senior Year

- Elective (3)
- Natural Science (4) \*
- THEA 4542 - Dramatic Literature I
  - Elective (3)
- THEA 4541 - Internship
  
- THEA 4591 - Professional Theatre Practice
  - Elective (3)
  - Elective (3)
  - Elective (3)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### Dance Minor

Any student wishing to minor in Dance should see the administrative secretary who will assign an advisor. The minor must consist of a minimum of 18 hours of approved coursework, 9 of which must be upper division. Coursework for all minors will be determined by the student in conference with the advisor.

### Theatre Minor

Any student wishing to minor in a theatre concentration - Performance, Musical Theatre, or Design/Technical - should see the administrative secretary who will assign an advisor. The minor must consist of a minimum of 18 hours of approved coursework, 9 of which must be upper division. Coursework for all minors will be determined by the student in conference with the advisor.

## College of Education

### College of Education

ERNEST A. RAKOW, Ph.D., Interim Dean  
Room 215, E.C. Ball Hall  
(901) 678-4265  
<http://www.memphis.edu/coe/>

The College of Education is dedicated to preparing students for careers in a variety of professional and related occupational areas. In helping the university pursue its three broad objectives of teaching, public service, and research, the College of Education is committed to the following missions.

The first mission of the College of Education is to prepare teachers, other licensed school personnel, and educationally related professionals who are qualified and competent in both practice and theory. The second mission is to conduct educational and educationally related research and to engage in the dissemination of the outcomes of that research. The third mission of the college is tightly interwoven with the two preceding missions, that is: to provide teaching, research and service that extends beyond the confines of the campus and to make educational delivery available in its urban setting and at other outreach locations.

The departments in the college value the pursuit and practice of quality teaching and research in a multicultural setting. Specifically, the college actively seeks to foster the advancement of knowledge and pedagogy involved in educational training in school and non-school settings. With a priority on urban related studies, both faculty and students are engaged in timely, diverse experiences of a scholarly nature.

This mission and vision for the College of Education is embodied in the theme of Educational Leaders. The college seeks to prepare leaders who demonstrate a thorough knowledge of the learning process, skill in instructional planning and delivery, and a disposition to create dynamic learning environments that incorporate multi-cultural knowledge into instructional design and delivery. Multiple performance assessment measures are used to identify what teacher candidates know and can do and their impact on P-12 students based on eleven learning outcomes derived from the Interstate New Teacher Assessment Support Consortium (INTASC) standards for teacher preparation.

## Organization

Three academic departments make up the College of Education: Counseling, Educational Psychology and Research; Instruction and Curriculum Leadership; and Leadership. One department offers undergraduate degrees, and all departments offer a variety of graduate degree programs.

In addition, there are several research and service units in the college: The Office of Teacher Education, Advising and Student Services, The Center for the Study of Higher Education, The Reading Center, The Center for Research in Educational Policy, The Barbara K. Lipman Early Childhood School and Research Institute, and the University Campus School.

## **BSED Requirements**

### **Professional Studies for Educators**

Professional studies in the College of Education consist of both subject matter, pedagogical knowledge, and specialized studies related to specific P-12 settings. All teacher education students will study knowledge and skills in human development, methods, technology, classroom management, cultural diversity, balanced assessment, and how to differentiate instruction. Students must also know and display professional dispositions expected of educators. Skills in assessment, behavior management and specialized instructional methods are incorporated in courses delivered by their respective specialty areas. Specific requirements are listed in the section of the Catalog addressing each major.

### **Accreditation**

The College of Education holds membership in the American Association of Colleges for Teacher Education. Its undergraduate programs, as well as all graduate degree programs through the doctoral degree for the preparation of teachers and related school personnel, are approved by the Tennessee State Department of Education. The College is fully accredited by the National Council for Accreditation of Teacher Education (NCATE).

### **Licensure Areas**

Areas of licensure that are available at the completion of undergraduate education programs include:

Special Education

Modified K-12 (460)

Comprehensive K-12 (461) (as an add-on endorsement only)

Physical Education K-12 (420)

Elementary K-6 (499)

Middle Grades 4-8 (440)

Early Childhood PrK-3 (467)

Visual Arts (427)

Music Inst. K-12 (429)

Music Voc./Gen K-12 (428)

Dance K-12 (445)

Recommendation for teacher licensure in any of the following teaching areas is contingent upon the completion of a baccalaureate degree in the appropriate academic area followed by completion of the Master of Arts in Teaching degree:

Visual Arts (K-12) English as a Second Language (K-12)

Elementary K-6 (499); Middle Grades 4-8 (440)

Early Childhood Pre K-3 (467)

Special Education

Modified K-12 (460)

Comprehensive K-12 (461)

Early Childhood Pre K-1 (465)

Physical Education K-12 (420)

## Secondary

English 7-12 (407)

French K-12 (491)

German K-12 (492)

Spanish K-12 (495)

Russian K-12 (494)

Latin K-12 (493)

Other Foreign Language (496)

Mathematics 7-12 (413)

Biology 7-12 (415)

Chemistry 7-12 (416)

Physics 7-12 (417)

Earth Science 7-12 (418)

History 7-12 (421)

Government 7-12 (423)

Geography 7-12 (422)

Psychology 9-12 (426)

Sociology 9-12 (425)

Students who intend to enter the Master of Arts in Teaching program should consult the MAT advisor and the College of Education Advisor for information about this program to ensure that the general education curriculum, pre-professional studies, and teacher licensure requirements are completed.

## Endorsements at the Graduate Level

Speech/Language Pre K-12 (464)

Counselor K-12 (487)

School Administrator

Beginning Administrator K-12 (A Standard) (480)

Professional Administrator PreK-12 (483)

School Psychologist (089)

Library Information Specialist (073)

English as a Second Language (490)

Reading Specialist (486)

## Admission to Teacher Education Program

Students who plan to pursue an undergraduate program of studies leading to teacher licensure must submit a formal application to the College of Education Teacher Education Program (TEP). Students are encouraged to apply for admission in their sophomore year.

Prerequisites for Provisional admission to the Teacher Education Program are as follows:

1. Complete a minimum of 45 semester hours.
2. Complete and submit the TEP application. Applications can be downloaded from the following site:  
<http://www.memphis.edu/coe/>
3. Complete with a grade of C- or above ENGL 1010, ENGL 1020, EDPR 2111, an appropriate course in speech, and the general education required Math course(s).
4. Take and submit satisfactory scores on the CORE Academic Skills for Educators. Students scoring a 22 or above on the Enhanced ACT do not have to take the CORE. Passing scores for the CORE: Reading 1156, Writing 162, and Mathematics 150.
5. Earn and maintain a GPA of no less than 2.75. An undergraduate student whose cumulative grade point average drops below 2.75 will not be provisionally admitted/retained in the Teacher Education Program.
6. Interview successfully with College of Education, Health and Human Sciences faculty and P-12 teachers/administrators. You must have passed the CORE and have a 2.75 GPA to be interviewed.
7. Obtain recommendations from two college or university professors. Recommendation forms are included with the TEP application.
8. Submit and request forwarding to the Office of Teacher Education and Student Support Services a Tennessee Bureau of Investigation criminal history background check.

Candidates who do not meet the regular Teacher Education Program (TEP) Provisional Admissions criteria may apply for alternative admission based on the following policy:

## Alternative Admission Based on CORE Scores

1. The candidates must meet the minimum cut-off scores for two of the three subtests or they cannot appeal. The writing subtest must be passed by all candidates.
2. The appealed CORE subtest score (math or reading) cannot vary more than 3% (5 points) from the acceptable minimum score.
3. Candidates who do not meet the minimum requirements must meet the following guidelines to submit an appeal based on CORE:
  - a. Must have a GPA of 3.00.
  - b. Must have taken the CORE subtest in question twice.
  - c. If appealing the Reading Subtest, the student must have at least a 3.00 average in general education literature course and an general education history course.
  - d. If appealing the Mathematics Test, the student must have a 3.00 average in all required mathematics courses in the general education curriculum.
  - e. All of the above courses must be taken at an accredited college.
4. Candidates MUST have take all relevant core courses as described above for their appeals to be considered.
5. Candidates who have the required grade point average and the required grades in the specified courses may be approved by the Director of Teacher Education without further appeal committee action.

## Alternative Admission Based on Grade Point Average

Candidates appealing to be Provisionally admitted to TEP because their grade point average has fallen below 2.75 must meet the following requirements in order to appeal:

1. Must have passed all sections of the CORE



2. Must provide, as part of their appeal, a plan describing the courses they will repeat or take to raise their grade point average to the 2.75 minimum and a proposed timeline. No restricted courses can be included in the plan.

#### Special Notes:

Candidates may not appeal for alternative admission if they have less than a 2.50 grade point average and have not met the minimum requirements of the CORE. These students will be advised individually regarding a remediation plan to improve their grade point average and/or PPST performance. In some instances, the candidate may be counseled out of the program.

## Retention

Candidates may be referred for retention throughout their program of studies. If candidates' grade point average drops below the required 2.75 while in Provisional Admission status, they will not be allowed to take any restricted courses in subsequent semesters and will lose their TEP admission status. Referrals can be made for academics, but also for professional dispositions related to ethical or attitudinal problems. There are also specific actions that can result in Disqualification (<http://www.memphis.edu/tep/admission/disqualification.php>). The College of Education Professional Dispositions guide the retention process. Candidates may be referred for counseling or be reviewed before the TEP Retention Committee.

## Pre-Student Teaching Clinical Experiences

Students pursuing teacher licensure complete, as a part of their program, a variety of required clinical experiences incorporated into professional education courses. Students will be expected to have experiences in a variety of settings (real and virtual) and with pupils who reflect differences in age, socioeconomic backgrounds, and cultural heritage.

Clinical experiences include both laboratory experiences (typically fulfilled on campus) and clinical experiences (typically fulfilled in PreK-12 schools). The early childhood programs require field experiences in PreK-3 grades. Other licensure programs require placements in a variety of grades (K-12). The amount of time spent in a clinical experience varies according to the specific requirement being met. Fulfillment of these experiences requires that students make available out-of-class time between 7:00 a.m. and 4:00 p.m. All students are required to complete the number of clinical experience hours expected in their licensure area.

Completion of field experiences will occur in sites arranged and approved by the University of Memphis College of Education Office of School Based Clinical Practice.

## Full Admission to Teacher Education Program and Residency

Teacher candidates entering their Junior year of study must meet the requirements for Full Admission to the Teacher Education Program and the Yearlong Residency. These requirements include:

1. Overall grade point average of 3.0.
2. Passing score on the appropriate Praxis Content Knowledge Exam.
3. Successful interview with Program Faculty.
4. Successful on-demand writing task.
5. Provide for review an exemplar work sample (e.g., lesson plan, etc.).
6. Complete an online aptitude for teaching questionnaire.
7. Evidence of professional liability insurance of at least one million dollars.

## Residency II/ Second Semester Senior Year

Students who pursue degree programs at the University of Memphis that lead to teacher licensure must complete their Residency II in placements arranged, coordinated, and approved by the Clinical Coordinator of the College of Education. Residency II teaching assignments are full day in length for 15 weeks.

Residency II is offered only during the spring semesters in partnership schools. No Residency assignments for initial licensure are made during the summer semester. Under the direction of Preservice Instructive Mentors (PIM), and Residency II Supervisors, candidates are

afforded opportunities to co-plan, co-teach, and co-assess in the PIM's classroom. In addition, all teacher candidates must submit an edTPA for national scoring. edTPA is the capstone assessment for all programs and success is required for a successful Residency II.

**NO OTHER COURSES MAY BE TAKEN DURING RESIDENCY II EXCEPT FOR THE PROFESSIONAL SEMINAR.**

Grades in Residency II are reported as "S" (satisfactory) or "U" (unsatisfactory).

Requirements for enrollment in yearlong Residency are:

1. File an application the semester before Residency I.
2. Gain full admittance to and be in good standing in the Teacher Education Program one semester before the Residency Year (senior year).
3. Attain classification as a senior with a minimum grade point average of 3.0.
4. Complete of all prerequisite professional education courses.
5. Earn a minimum grade of "C" in University General Education Program courses, each required professional education course, and each course in the major.
6. Submit passing scores on all remaining required Praxis II licensure exams for the specific area of licensure being sought prior to Residency II. Candidates must submit scores on the exam no later than 30 days prior to the first day of Residency II.
7. Must have a background check on file.

## Graduation

To be recommended for graduation and licensure, teacher candidates must complete the requirements listed below:

1. Minimum of 120 semester hours, including at least 45 hours of upper division courses.
2. Overall minimum GPA of 3.0.
3. A minimum GPA of 3.0 in all courses taken at the University of Memphis, excluding all credit transferred from other institutions.
4. Minimum grade of "C" in each required professional education course and each course in the major. Candidates can only repeat a professional education course once. Failure to make a satisfactory grade on the second attempt will result in disqualification from the teacher education program.
5. Submit scores for all Praxis II licensure exams.
6. Successfully complete the Teacher Performance Assessment (edTPA).

For Tennessee Teacher Licensure, students must obtain satisfactory scores in Principles of Learning and Teaching and Specialty Area Examinations of the PRAXIS II, according to the criteria established by the Tennessee State Board of Education.

Any courses taken in excess of those needed to fulfill the requirements of professional education courses and major and minor endorsement areas, are considered to be general electives and are included only in the calculation of the overall GPA. In those areas where students are required to take elective courses, the student, in consultation with and approval of the major advisor, designates where the elective courses are to be applied.

## Majors

In addition to completing the degree requirements listed above for teacher licensure, B.S.Ed., students must complete requirements for the Human Development and Learning, Integrative Studies, Physical Education Teacher Education, and Teaching All Learners. Following the requirements for these majors are the requirements for the non-licensure degree and majors offered through other departments in the college.

## B.S. ED REQUIREMENTS (NON-LICENSURE)

Students may complete a non- major in the Department of Instruction and Curriculum Leadership. Degree requirements for this include the following:

## Graduation

In addition to specific course requirements listed below, students must complete the following:

1. Minimum of 120 semester hours of which at least 45 hours must be upper division and at least 45-51 hours must be liberal content courses.
2. Overall minimum GPA of 2.00.
3. A minimum GPA of 2.00 in all credits earned at the University of Memphis excluding all credit transferred from other institutions.
4. A minimum GPA of 2.25 in all courses required for fulfilling the completion of the major.

**NOTE:** Any courses taken in excess of those needed to fulfill the requirements of the major are considered to be general electives and are included only in the calculation of the overall GPA. In those areas where students are required to take elective courses, the student in consultation with and approval of the major advisor, designates where the elective courses are to be applied.

Individual program requirements described in *the University of Memphis Undergraduate Catalog* are subject to change. Please consult the college level advisor for changes that may occur before publication of the next issue of this *Catalog*.

## Department of Instruction and Curriculum Leadership

Program objectives for a B.S.Ed. are: (a) to understand how learning occurs, how students construct knowledge and acquire skill, and to provide learning opportunities that support students' intellectual, social, and personal development; (b) to adapt instructional techniques to students of diverse cultural and language backgrounds and those with exceptional learning needs.

Successful completion of B.S.Ed. requirements with a major in Teaching All Learners will qualify a person to apply for licensure in Elementary (K-6) and/or Special Education Modified (K-12). All candidates must complete program requirements and will be eligible for either one or both licensure areas. Consult an advisor in the College of Education.

## Major

### Human Development and Learning, (B.S.Ed.)

Program objective for a B.S.Ed. in Human Development and Learning are: (a) to promote child development and learning; (b) to build family and community relationships; (c) to observe, document, and assess young children and families; (d) to teach and learn, to design, implement and evaluate experiences that promote positive development and learning for all children.

Successful completion of B.S.Ed. requirements with a major in Human Development and Learning will qualify a person to apply for licensure in Early Childhood Education (PreK-3).

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### Mathematics (3 hours)

- MATH 1420 - Foundations of Mathematics

## Humanities (9 hours)

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- ART 1030 - Intro to Art
- MUS 1030 - Introduction to Music
- or
- THEA 1030 - Intro to Theatre
- CLAS 2481 - Mythology
- PHIL 1101 - Fundamental Issues/Philosophy
- PHIL 1102 - Values and Modern World
- POLS 1101 - Intro Ancient Political Thgt
- or
- POLS 1102 - Intro Modern Political Thought

## History (6 hours)

### Choose One:

- HIST 2010 - U S to 1877
- HIST 2020 - The U S Since 1877
- HIST 2030 - Tennessee History

### Choose One:

- HIST 1110 - World Civilization I
- HIST 1120 - World Civilization II

## Social/Behavioral Sciences (6 hours)

### Choose Either

- ESCI 1301 - Survey of World Regions
- or
- ESCI 1401 - Intro/Cultural Geography

## Must Take

- POLS 1030 - American Government

## Natural Science (8 hours)

(choose one course from List 1 and one course from List 2)

### List 1

- BIOL 1010 - Biology of Cells  
and
- BIOL 1011 - Biology of Cells Lab  
or
- BIOL 1020 - Biology of Organisms  
and
- BIOL 1021 - Biology of Organisms Lab

### List 2

- PHYS 1010 - Introductory Physics
- PHYS 1001 - Introductory Physics Lab
- PHYS 1020 - Survey of Astronomy I
- PHYS 1002 - Astronomy Laboratory
- ESCI 1010 - Weather and Climate
- ESCI 1020 - Landforms
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

## Related Liberal Studies (8 hours):

- EDPR 2111 - Development Across Lifespan
- PETE 3604 - Teach Phys Ed/Health/K-Middle
- ART 3411 - Art for Children

## The Major (30 hours)

## Core (24 hours):

- SPED 2000 - Foundation/Exceptional Learn
- SPED 3803 - Classroom/Behavior Management
- IDT 3600 - Technology in Education
- EDPR 4301 - Early Child Dev/Begin Teacher
- ICL 4001 - Teaching/Diverse Environment
- ENGL 4531 - Methods and Techniques ESL
- RDNG 4240 - Literacy in Grades K-4
- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch

## Select One Course From Each of the Following Two Areas:

### Race and Ethnicity:

- SOCI 3401 - Social Inequality
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 3322 - Methods of Social Research
- SOCI 4420 - Racial Inequality
- SOCI 4442 - Sociology of Poverty

### Family/Culture/Gender:

- ANTH 3511 - Culture/Kin/Family
- ANTH 4411 - Urban Anthropology
- HIST 4863 - History/Childhood in America
- SOCI 3432 - Sociology of Gender or
- SOCI 4460 - Black/White Women in South

## Pre-Residency Semester (15 hours) offered in spring

Early Childhood Education (Grades PreK-3 Licensure) must take

- ICL 3333 - Stdnt Assess/Inst Dec Mkng
- ECED 4500 - Emergent Literacy/Lang Dev \*
- ECED 4005 - Fam/Sch Collaboration/ECED \*
- ECED 4520 - Plan/Facilitn Social Lrng/Dev \*
- ECED 4530 - Plan/Faciltn Math/Science Lrng \*

## Residency I Semester (14 hours) offered in fall

Early Childhood Education (Grades PreK-3 Licensure) must take

- ECED 4510 - Early Chld Prgms/Pr \*
- ECED 4515 - Teach/Lrng Erly Chld Ed \*
- ECED 4540 - Pln/Fcilt Infant/Toddler Dev \*
- ICL 4914 - Residency I Practicum \*

## Residency II Semester (12 hours) offered in spring

Early Childhood Education (Grades PreK-3 Licensure) must take

- ICL 4800 - Residency II Prof Seminar \*
- ICL 4904 - Residency II Clinical \*

## Note

\*Requires admission to TEP.

## Typical 4-Year Human Development and Learning: PreK-3 Teacher Licensure Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities (3) \*
- MATH 1420 - Foundations of Mathematics
  - History (3)
  - Fine Arts (3) \*
- ENGL 1020 - English Comp/Analysis
- EDPR 2111 - Development Across Lifespan
- POLS 1030 - American Government
  - Natural Science (4) \*
  - History Selective (3)

## Semester Totals 31 hrs

### Sophomore Year

Take the CORE test once you have complete ENGL 1010, ENGL 1020, and MATH 1420.

- EDPR 2111 - Development Across Lifespan
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- IDT 3600 - Technology in Education
  - Natural Science (4) \*
- ESCI 1301 - Survey of World Regions

or

- ESCI 1401 - Intro/Cultural Geography
- SPED 3803 - Classroom/Behavior Management
  - Race & Ethnicity Selective (3)
- ART 3411 - Art for Children
- COMM 2381 - Oral Communication
- ENGL 4531 - Methods and Techniques ESL
- PETE 3604 - Teach Phys Ed/Health/K-Middle

## Semester Totals 33 hrs

### Junior Year

TEP APPROVAL You will be delayed in graduating if you are not provisionally admitted to TEP by the end of the sophomore year and fully admitted by the of the junior year. You must have a 3.0 GPA at this time.

- ICL 4001 - Teaching/Diverse Environment
- EDPR 4301 - Early Child Dev/Begin Teacher
- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch
  - Family/Culture/Gender Selective (3)
- ECED 4005 - Fam/Sch Collaboration/ECED
- ECED 4520 - Plan/Facilitn Social Lrng/Dev
- ECED 4530 - Plan/Faciltn Math/Science Lrng
- ECED 4500 - Emergent Literacy/Lang Dev
- ICL 3333 - Stdnt Assess/Inst Dec Mkng

## Semester Totals 30 hrs

### Senior Year



- ECED 4510 - Early Chld Prgms/Pr
- ECED 4515 - Teach/Lrng Erly Chld Ed
- ECED 4540 - Pln/Fcilt Infant/Toddler Dev
- ICL 4914 - Residency I Practicum
- ICL 4904 - Residency II Clinical
- ICL 4800 - Residency II Prof Seminar

Semester Totals 26 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Integrative Studies, Secondary Math Concentration (B.S.Ed.)**

Program objectives for a B.S.Ed. in Integrative Studies are: (a) to understand how learning occurs, how students construct knowledge and acquire skills, and knows how to provided learning opportunities that support their intellectual, social, and personal development; (b) to adapt instructional techniques to youth of diverse cultural and language backgrounds and to students who have exceptional learning needs.

Integrative Studies/Secondary Math Concentration: Program objectives for a B.S.Ed. in Integrative Studies/Secondary Math are: (a) to understand how learning occurs, how students construct knowledge and acquire skills, and knows how to provided learning opportunities that support their intellectual, social, and personal development; (b) preparing, through intensive clinical experiences, highly qualified math teachers grades 6-12.

## **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

NOTE: The following University General Education Program requirements are specified by the department for this major:

### **Mathematics (3 hours):**

- MATH 1420 - Foundations of Mathematics (Youth Services)
- MATH 1530 - Prob/Statistics/Non Calculus (Secondary Math Licensure)

## Humanities/Fine Arts (9 hours):

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American

Select one Fine Arts:

- ART 1030 - Intro to Art
- or
- MUS 1030 - Introduction to Music
- or
- THEA 1030 - Intro to Theatre

Select an additional Fine Arts or one of these courses:

- CLAS 2481 - Mythology
- PHIL 1101 - Fundamental Issues/Philosophy
- or
- PHIL 1102 - Values and Modern World
- POLS 1101 - Intro Ancient Political Thgt
- or
- POLS 1102 - Intro Modern Political Thought

## History (6 hours):

- HIST 1110 - World Civilization I
- or-
- HIST 1120 - World Civilization II
- HIST 2010 - U S to 1877
- or-
- HIST 2020 - The U S Since 1877
- or-
- HIST 2030 - Tennessee History

## Social/Behavioral Sciences (6 hours):

- POLS 1030 - American Government
- plus
- ESCI 1301 - Survey of World Regions
- or
- ESCI 1401 - Intro/Cultural Geography

## Natural Sciences (8 hours):

One biological science plus lab from:

- BIOL 1010 - Biology of Cells
- BIOL 1011 - Biology of Cells Lab

or

- BIOL 1020 - Biology of Organisms
- BIOL 1021 - Biology of Organisms Lab

One physical science plus lab from:

- ESCI 1010 - Weather and Climate
- ESCI 1020 - Landforms
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet
- PHYS 1010 - Introductory Physics
- PHYS 1001 - Introductory Physics Lab
- PHYS 1020 - Survey of Astronomy I
- PHYS 1002 - Astronomy Laboratory
- CHEM 1010 - Chemistry of Materials
- CHEM 1011 - Chemistry of Materials Lab
- CHEM 1020 - Chemistry of Life
- CHEM 1021 - Chemistry of Life Lab

## Secondary Math (grades 6-12)

The purpose of the Secondary Math Concentration is to prepare classroom teachers for the teaching of mathematics in grades 6-12.

## Related Liberal Studies (15 hours):

- ENGL 4531 - Methods and Techniques ESL
- SPED 2000 - Foundation/Exceptional Learn
- EDPR 3302 - Child/Adolescent Development
- ICL 4001 - Teaching/Diverse Environment
- IDT 3600 - Technology in Education

## Major Core (26 hours)

- MATH 1910 - Calculus I
- MATH 1920 - Calculus II
- MATH 2702 - Intro Proof/Fundamental Math
- MATH 3581 - College Geometry
- MATH 4151 - History of Mathematics
- MATH 4082 - Math/Mid School Teacher
- MATH 4080 - Math/Sec School Teachers I \*
- MATH 4081 - Math/Sec School Teachers II \*

## Professional Education (38 hours below)

Requires admission to TEP. An application for the Residency Program must be submitted during your Pre-Residency Semester (by the first Tuesday in March) in Ball Hall Room 204. [Application may be found here.](#)

## PreResidency (12 hours)

Requires admission to TEP:

- RDNG 4241 - Literacy in Grades 4-8
- ICL 4004 - Teach Mid Grade/Math
- ICL 4080 - Math Methods High School I
- ICL 4081 - Math Methods HS Teachers II

## Residency I Semester (14 hours) offered in Fall:

- ICL 3333 - Stdnt Assess/Inst Dec Mkng
- ICL 4007 - Curriculum/Instr Sec Math
- ICL 4008 - Teaching Math in Urban Schools
- ICL 4914 - Residency I Practicum

## Residency II Semester (12 hours) offered in Spring:

- ICL 4907 - Stdnt Tchng/Secondary School
- ICL 4800 - Residency II Prof Seminar

## Typical 4-Year Sequence for ITGS: Secondary (6-12) Math Licensure

### Freshman Year

- ENGL 1010 - English Composition
  - MATH 1530 - Prob/Statistics/Non Calculus
  - POLS 1030 - American Government
    - Fine Arts (3)
    - Humanities (3)
  - ENGL 1020 - English Comp/Analysis
  - MATH 1910 - Calculus I
  - ESCI 1301 - Survey of World Regions
- or
- ESCI 1401 - Intro/Cultural Geography
    - US History (3)
  - SPED 2000 - Foundation/Exceptional Learn

Semester Totals 31 hrs

### Sophomore Year

Take the CORE once you have completed ENGL 1010, ENGL 1020, and MATH 1530.

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - EDPR 3302 - Child/Adolescent Development
    - History (3)
  - COMM 2381 - Oral Communication
  - MATH 1920 - Calculus II
  - ICL 4001 - Teaching/Diverse Environment
  - IDT 3600 - Technology in Education
  - ESCI 1010 - Weather and Climate
  - MATH 2702 - Intro Proof/Fundamental Math
  - BIOL 1010 - Biology of Cells
  - BIOL 1011 - Biology of Cells Lab

Semester Totals 33 hrs

### Junior Year

TEP APPROVAL You will be delayed in graduating if you are not provisionally admitted to TEP by the end of the sophomore year and fully admitted by the end of the junior year. You must have a 3.0 GPA at this time.

- MATH 4151 - History of Mathematics
- ICL 4004 - Teach Mid Grade/Math \*
- MATH 4082 - Math/Mid School Teacher
- ENGL 4531 - Methods and Techniques ESL
- MATH 3581 - College Geometry
  
- ICL 4080 - Math Methods High School I \*
- ICL 4081 - Math Methods HS Teachers II \*
- MATH 4080 - Math/Sec School Teachers I
- RDNG 4241 - Literacy in Grades 4-8 \*
- MATH 4081 - Math/Sec School Teachers II

Semester Totals 31 hrs

## Senior Year

- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- ICL 4007 - Curriculum/Instr Sec Math
- ICL 4008 - Teaching Math in Urban Schools
- ICL 4914 - Residency I Practicum
  
- ICL 4907 - Stdnt Tchng/Secondary School
- ICL 4800 - Residency II Prof Seminar

Semester Totals 26 hrs

Total: 120 hours

\* TEP restricted-Students should be provisionally admitted to TEP by the end of the sophomore year and full admitted by the end of junior year and have a 3.0 GPA.

\*\*Take the CORE once you have completed ENGL 1010, ENGL 1020, and MATH 1530

## **Integrative Studies, Youth Services Concentration (B.S.Ed.)**

The Integrative Studies Youth Services concentration, a non-licensure concentration, does not require admittance to the Teacher Education Program (TEP). It does, however, require a 2.25 grade point average, C- or better in all courses in the major, and 45 upper-division hours for graduation.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

NOTE: The following University General Education Program requirements are specified by the department for this major:

### Mathematics (3 hours):

- MATH 1420 - Foundations of Mathematics (Youth Services)
- MATH 1530 - Prob/Statistics/Non Calculus (Secondary Math Licensure)

### Humanities/Fine Arts (9 hours):

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American

Select one Fine Arts:

- ART 1030 - Intro to Art
- or
- MUS 1030 - Introduction to Music
- or
- THEA 1030 - Intro to Theatre

Select an additional Fine Arts or one of these courses:

- CLAS 2481 - Mythology
- PHIL 1101 - Fundamental Issues/Philosophy
- or
- PHIL 1102 - Values and Modern World
- POLS 1101 - Intro Ancient Political Thgt
- or
- POLS 1102 - Intro Modern Political Thought

### History (6 hours):

- HIST 1110 - World Civilization I
- or-
- HIST 1120 - World Civilization II
- HIST 2010 - U S to 1877

-or-

- HIST 2020 - The U S Since 1877

-or-

- HIST 2030 - Tennessee History

### Social/Behavioral Sciences (6 hours):

- POLS 1030 - American Government

plus

- ESCI 1301 - Survey of World Regions

or

- ESCI 1401 - Intro/Cultural Geography

### Natural Sciences (8 hours):

One biological science plus lab from:

- BIOL 1010 - Biology of Cells
- BIOL 1011 - Biology of Cells Lab

or

- BIOL 1020 - Biology of Organisms
- BIOL 1021 - Biology of Organisms Lab

One physical science plus lab from:

- ESCI 1010 - Weather and Climate
- ESCI 1020 - Landforms
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet
- PHYS 1010 - Introductory Physics
- PHYS 1001 - Introductory Physics Lab
- PHYS 1020 - Survey of Astronomy I
- PHYS 1002 - Astronomy Laboratory
- CHEM 1010 - Chemistry of Materials
- CHEM 1011 - Chemistry of Materials Lab
- CHEM 1020 - Chemistry of Life
- CHEM 1021 - Chemistry of Life Lab

### Youth Services Concentration

### Related Liberal Studies (Youth Services)



- IDT 3600 - Technology in Education
- SPED 2000 - Foundation/Exceptional Learn
- ENGL 3500 - Practical English Grammar
- EDPR 2111 - Development Across Lifespan
- ICL 4001 - Teaching/Diverse Environment
- PETE 3604 - Teach Phys Ed/Health/K-Middle
- PSYC 1030 - General Psychology
- SOCI 1010 - Introduction to Sociology

## Major Core (Youth Services)

- EDPR 3302 - Child/Adolescent Development
- RDNG 4240 - Literacy in Grades K-4
- SPED 4111 - Intro/Appl Behav Analysis
- SPED 4112 - Assess/Measure/Appl Behav Anly
- SPED 4113 - Appl Behav Intervent/Strateg
- SPED 4114 - Practitioner Issues/ABA
- ENGL 4531 - Methods and Techniques ESL
- ECED 4005 - Fam/Sch Collaboration/ECED
- RDNG 3001 - Literacy Tutoring
- EDSV 4850 - Practicum/Training Settings

## Guided Electives (Youth Services)

Guided Electives (26 hours) - The following recommended:

- ECED 4500 - Emergent Literacy/Lang Dev
- ECED 4510 - Early Chld Prgms/Pr
- ECED 4540 - Pln/Fcilt Infant/Toddler Dev
- PADM 4226 - Intro Nonprofit Organizations
- PADM 4412 - Neighborhood Dev/Social Entrep
- EDSV 4950 - Internship/Training Settings

## Typical 4-Year Sequence for ITGS: Youth Services

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1420 - Foundations of Mathematics

Fine Arts Selection

- HIST 1110 - World Civilization I

or

- HIST 1120 - World Civilization II
- POLS 1030 - American Government
- ENGL 1020 - English Comp/Analysis

- EDPR 2111 - Development Across Lifespan
- COMM 2381 - Oral Communication
  - American History
  - Humanities Selection

Semester Totals 30 hrs

## Sophomore Year

- SPED 2000 - Foundation/Exceptional Learn
- SOCI 1010 - Introduction to Sociology
- PETE 3604 - Teach Phys Ed/Health/K-Middle
- ENGL 2201 - Literary Heritage -or-
- ENGL 2202 - Lit Heritage: African-American
  - Natural Science & Lab
- ENGL 3500 - Practical English Grammar
- IDT 3600 - Technology in Education
- ICL 4001 - Teaching/Diverse Environment
  - ESCI 1301 or 1401
  - Natural Science & Lab

Semester Totals 31 hrs

## Junior Year

- EDPR 3302 - Child/Adolescent Development
- RDNG 4240 - Literacy in Grades K-4
- SPED 4111 - Intro/Appl Behav Analysis
- SPED 4113 - Appl Behav Intervent/Strateg
- ECED 4005 - Fam/Sch Collaboration/ECED
- ENGL 4531 - Methods and Techniques ESL
- PSYC 1030 - General Psychology
- SPED 4112 - Assess/Measure/Appl Behav Anly
- SPED 4114 - Practitioner Issues/ABA
- EDSV 4850 - Practicum/Training Settings

Semester Totals 30 hrs

## Senior Year

- EDSV 4950 - Internship/Training Settings
- RDNG 3001 - Literacy Tutoring
  - Elective (3)
  - Elective (3)

- EDSV 4950 (6) Internship
- Elective (3)
- Elective (3)
- Elective (2)

Semester Totals 29 hrs

Total: 120 Hours

## **Teaching All Learners (leading to Elementary K-6 and Special Education Modified K-12 licensure), (B.S.Ed.)**

University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

The following University General Education Program requirements are specified by the department for this major:

### Humanities/Fine Arts:

Choose one of these:

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American

Plus one of these:

- ART 1030 - Intro to Art
- or
- MUS 1030 - Introduction to Music
- or
- THEA 1030 - Intro to Theatre

### Recommended Humanities

Select one of these recommended Humanities:

- CLAS 2481 - Mythology
- PHIL 1101 - Fundamental Issues/Philosophy
- PHIL 1102 - Values and Modern World
- POLS 1101 - Intro Ancient Political Thgt
- POLS 1102 - Intro Modern Political Thought

## Social/Behavioral Sciences:

- POLS 1030 - American Government

## Choose Either

- ESCI 1301 - Survey of World Regions
- ESCI 1401 - Intro/Cultural Geography

## History:

### Choose Either

- HIST 2010 - U S to 1877
- or
- HIST 2020 - The U S Since 1877
- or
- HIST 2030 - Tennessee History

### Choose Either

- HIST 1110 - World Civilization I
- or
- HIST 1120 - World Civilization II

## Natural Sciences:

Choose one from list 1 and choose one from list 2

**List 1:**

- BIOL 1010 - Biology of Cells
- and
- BIOL 1011 - Biology of Cells Lab
- or
- BIOL 1020 - Biology of Organisms
- and
- BIOL 1021 - Biology of Organisms Lab

**List 2:**

- ESCI 1010 - Weather and Climate
- ESCI 1020 - Landforms
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet
  
- PHYS 1010 - Introductory Physics
- PHYS 1001 - Introductory Physics Lab
- or
- PHYS 1020 - Survey of Astronomy I
- PHYS 1002 - Astronomy Laboratory

**Related Liberal Studies (8 hours):**

- EDPR 2111 - Development Across Lifespan
- IDT 3600 - Technology in Education
- PETE 3604 - Teach Phys Ed/Health/K-Middle

**Major Core (18 hours):**

Major core for Teaching All Learners:

- SPED 2000 - Foundation/Exceptional Learn
- MATH 1480 - Math/Elem School Teachers I
- MATH 1481 - Math/Elem School Teachers II
- ICL 4001 - Teaching/Diverse Environment

## Professional Education (18 hours):

Teaching All Learners (Elementary (K-6) / Special Education Modified):

- SPED 3803 - Classroom/Behavior Management
- ELED 3242 - Teaching/Learning Elem School
- RDNG 4240 - Literacy in Grades K-4 \*
- SPED 3800 - Methods I/Instruct/Literacy
- ELED 3251 - Method/Teach Math/Elem Grades
- ELED 3271 - Method/Social Studies/Elem Grd

## Pre-residency (15 hours)

Elementary/Special Education Modified Licensure:

- RDNG 4241 - Literacy in Grades 4-8 \*
- SPED 3802 - Ed Assessment/Inclusive Set
- ENGL 4531 - Methods and Techniques ESL
- ELED 3261 - Method/Teach/Science/Elem Grde
- SPED 3804 - SPED Methods II. Content Area

## Residency I Semester (14 hours), offered in fall

Elementary/Special Education Modified Licensure:

- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- SPED 4020 - Language/Comm/Diverse Classrm
- ICL 4021 - Professional/Ethical Practices
- ICL 4914 - Residency I Practicum \*

## Residency II Semester (12 hours), offered in spring

Elementary/Special Education Modified Licensure:

- ICL 4800 - Residency II Prof Seminar \*
- ICL 4904 - Residency II Clinical

## Note

\*Requires admission to TEP.

NOTE: Several courses are taken as corequisites. Please refer to the latest degree plan and course descriptions for specifics.

## Typical 4-Year Sequence for Teaching All Learners: Elementary Education (K-6) and Special Education Modified (K-12) Licensure

### Freshman Year

- ENGL 1010 - English Composition \*
  - ART 1030 - Intro to Art \*
- or
- MUS 1030 - Introduction to Music \*
- or
- THEA 1030 - Intro to Theatre \*
  - MATH 1420 - Foundations of Mathematics
  - HIST 1110 - World Civilization I
- or
- HIST 1120 - World Civilization II
  - ESCI 1301 - Survey of World Regions
- or
- ESCI 1401 - Intro/Cultural Geography
- ENGL 1020 - English Comp/Analysis \*
  - MATH 1480 - Math/Elem School Teachers I \*
- Humanities
- HIST 2010 - U S to 1877
- or
- HIST 2020 - The U S Since 1877
- or
- HIST 2030 - Tennessee History
  - EDPR 2111 - Development Across Lifespan

Semester Totals 30 hrs

### Sophomore Year

- ELED 3242 - Teaching/Learning Elem School
  - ENGL 2201 - Literary Heritage \*
- or
- ENGL 2202 - Lit Heritage: African-American \*
  - IDT 3600 - Technology in Education
  - MATH 1481 - Math/Elem School Teachers II

Natural Science and Lab

- PETE 3604 - Teach Phys Ed/Health/K-Middle
- POLS 1030 - American Government

Natural Science and Lab

- SPED 2000 - Foundation/Exceptional Learn
- COMM 2381 - Oral Communication \*

Semester Totals 31 hrs

## Junior Year

- RDNG 4240 - Literacy in Grades K-4
- ELED 3251 - Method/Teach Math/Elem Grades
- ELED 3271 - Method/Social Studies/Elem Grd
- SPED 3803 - Classroom/Behavior Management
- SPED 3800 - Methods I/Instruct/Literacy
- ICL 4001 - Teaching/Diverse Environment
- RDNG 4241 - Literacy in Grades 4-8
- SPED 3802 - Ed Assessment/Inclusive Set
- SPED 3804 - SPED Methods II. Content Area
- ELED 3261 - Method/Teach/Science/Elem Grde
- ENGL 4531 - Methods and Techniques ESL

Semester Totals 33 hrs

## Senior Year (Residency Year)

- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- ICL 4021 - Professional/Ethical Practices
- ICL 4914 - Residency I Practicum
- SPED 4020 - Language/Comm/Diverse Classrm
- ICL 4904 - Residency II Clinical
- ICL 4800 - Residency II Prof Seminar

Semester Totals 26 hrs

Total Hours Required for Graduation: 120

\*Must satisfy General Education Program Requirements



# School of Health Studies

## The School of Health Studies

Richard J. Bloomer, PhD, Interim Director  
 106 Roane Fieldhouse  
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[www.memphis.edu/shs](http://www.memphis.edu/shs)

The School of Health Studies (SHS) provides students with a quality education focused on the fundamental principles of health, exercise, nutrition, and physical activity, while equipping them with the cutting-edge knowledge and skills needed to fulfill leadership roles in their chosen area of specialty. From introductory courses in health and wellness, to specialized courses in nutrition therapy, biomechanics, health sciences, exercise physiology, and physical education teacher education, students are taught to analyze and synthesize data, and to develop alternative approaches to problem solving. As a result, students are prepared to move rapidly upward in their chosen career path upon graduation, whether seeking employment or advanced graduate study.

Undergraduate degrees in SHS may prepare students for graduate work in a variety of settings (e.g., physical therapy, occupational therapy, physical education and recreation, strength and conditioning, medicine, physician assistant, dietetics and clinical nutrition, and more). Faculty members serve as mentors to students through laboratory and research activities, as well as through internships and study abroad opportunities. Five undergraduate and six graduate degree programs are currently offered within SHS. In addition, a University-wide physical activity program is coordinated through SHS.

## Academic Programs

Health Studies (Concentrations in Dietetics; Exercise, Sport, & Movement Sciences; Health Sciences; Healthcare Leadership)

Physical Education Teacher Education

## Internships

- [Internship Manual](#)
- [Internship Application](#)
- [Internship Application for Human Performance Labs](#)

Within the School of Health Studies, undergraduate internship experiences are required and designed as culminating experiences that provide extensive, as well as intensive, hands-on work experience opportunities. The intern, while still a student, is expected to assume a responsible and comprehensive role that is commensurate with that of a full-time professional. Interns, in collaboration with their supervisors, are expected to establish objectives to be achieved during the internship experience. Credit hours assigned to internships range from 3 to 12 hours, depending on the requirements of various concentrations in the school.

Students enrolling in internship programs must complete prerequisites and program requirements in placements arranged by Dr. Stan Walls, SHS Coordinator of Internships, with the exception of Dietetics students who should contact Mary Catherine Schallert.  
 Example Internship Sites

- St Jude Children's Research Hospital
- Methodist Le Bonheur Healthcare
- Ahead of the Game
- Baptist Hospital Cardiac Wellness
- Methodist Hospital Cardiac Wellness
- Campbell's Clinic
- Christ Community Medical Clinic
- Desoto Athletic Club
- Metro YMCA's
- Federal Express Wellness Center
- Harbor of Health Wellness Center
- Health South Rehabilitation
- Hope & Healing Center
- Jewish Community Center

- University Club
- Le Bonheur Children's Research Hospital
- Memphis Country Club
- Nike Fitness
- Physiotherapy Associates
- University of Tennessee Medical School
- V.A. Medical Center
- Tennessee State Parks
- Christian Brothers University
- Kroger St. Jude International Indoor
- Lichterman Nature Center
- Main Event Production, Inc.
- Memphis Grizzlies
- Memphis in May
- Memphis International Motor Sports Park
- Navy Moral, Welfare & Recreation
- Liberty Bowl Game
- Skinner Handicap Center
- University of Memphis Athletic Dept.
- UofM Human Performance Laboratories

## Study Abroad Programs

Each year, faculty members within the School of Health Studies lead students on a study abroad expedition. Students receive course credit and greatly benefit from the overall experience. For information pertaining to the upcoming trip, please contact [Dr. Yuhua Li](#) or [Mary Catherine Schallert](#).

**For Additional Information, Application, Scholarship Information:** [Click here](#).

- [Home](#)
- [SHS](#)
- Research

## Research Opportunities

### School of Health Studies Research

Faculty investigators within The School of Health Studies (SHS) are highly engaged in research within their respective disciplines. Some faculty are world-renown, developing and overseeing novel and focused research programs that command attention from investigators, clinicians, and other health specialists from around the world. Research within the SHS is funded through both internal and external sources, with faculty collectively securing hundreds of thousands of dollars annually to support their work.

Due to the diversity of the academic disciplines within the SHS, several laboratories and supportive research areas exist, which provide resources to faculty and post-doctoral fellows, as well as to graduate and undergraduate research assistants. Within and outside of the SHS, facilities are available to support cell culture studies, pre-clinical animal investigations (from rodent to pig models), and human clinical investigations. Our current equipment inventory for laboratories within the SHS can be seen [here](#).

Faculty investigators in the SHS are regularly seeking research participants. Please [click here](#) to see the current list of studies for which active recruitment is now taking place.

## SHS Research Facilities

### Facility

- School of Health Studies Basic Research Laboratory  
Directors: Randy Buddington, PhD and Karyl Buddington, DVM
- Buddington Nutrition Research Laboratory  
Director: Randy Buddington, PhD
- Biochemistry and Molecular Biology Laboratory  
Director: Marie van der Merwe, PhD
- Bone Densitometry and Body Composition Laboratory  
Director: Matthew Butawan
- Cardiorespiratory/Metabolic Laboratory  
Director: Richard J. Bloomer, PhD
- Exercise Instructional Laboratory  
Director: Robert Townsend, MS
- Musculoskeletal Analysis Laboratory  
Director: Lawrence W. Weiss, EdD
- Exercise Training Intervention Laboratory  
Director: Robert Townsend, MS
- Motor Behavior Laboratory  
Director: Yuhua Li, PhD

In addition to the above facilities, which are directed by SHS faculty, several other research resources are available both on and off-campus. For example, on-campus facilities such as The [Integrated Microscopy Center](#) (IMC) and [The W. Harry Feinstone Center for Genomic Research](#) are available to support faculty research. Off-campus opportunities for collaboration are multiple, with investigators at [The University of TN Health Science Center](#), [LeBonheur Children's Hospital](#), and [St. Jude Children's Research Hospital](#), in addition to various medical device companies within the Memphis area.

Recent News

## Major

### Physical Education Teacher Education Major (BSEd)

#### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

## The Major (64-79 hours)

- EDPR 2111 - Development Across Lifespan
- ESMS 2015 - Resistance/Aerobic Training Applications
- ESMS 3853 - Motor Behavior
- IDT 3600 - Technology in Education
- PETE 2000 - Introduction to PETE
- PETE 2002 - Ed Games/Team Sport Skill
- PETE 2003 - Skill Comp Individual Sport
- PETE 2006 - Ed Gym/Movement Concepts
- PETE 2009 - Ed Dance/Movement Concepts
- PETE 2500 - Methods Techniques of Coaching
- PETE 3307 - Psychosocial Aspect of Sport
- PETE 3308 - Exceptional Learner Phys Ed
- PETE 3800 - Instr Strategies Phys Ed

## School Physical Education Concentration (35 hours)

- HLSC 2100 - Wellness Concepts Practice
- ICL 3333 - Stdnt Assess/Inst Dec Mknng
- ESMS 3405 - Structure and Function of Anatomic Kinesiology
- ESMS 3700 - Exercise Physiology Introduction
- PETE 4201 - Curr/Integ Learn/EI PE Well
- PETE 4301 - Curr/Integ Learn/Sec PE/Well
- PETE 4401 - Learner Assessment PE/Well
- PETE 4501 - Residency I Practicum PE/Well
- PETE 4601 - Residency II Seminar PE/Well
- PETE 4701 - Residency II Practicum PE/Well
- PHED 1713 - Intermediate Swim **OR**
- PHED 1722 - Swim-Lifeguarding **OR**
- PHED 2703 - Teaching Swimming and WSI

## Community Physical Education Concentration (22 hours)

- HLSC 2100 - Wellness Concepts Practice
- PETE 3604 - Teach Phys Ed/Health/K-Middle
- PETE 4605 - Intern/PETE/Community PE
- PHED 1711 - Beginning Swimming I
- SOCI 3422 - Racial/Ethnc Minorities
- SLS 3103 - Outdoor Rec/Ed Urban America
- SLS 3305 - Leisure/Recreation Prog Devlp

## Electives (0-12 hours)

Electives selected in consultation with advisor to bring the total number of credit hours to 120.

## Typical 4-Year Physical Education Teacher Education (School Physical Education) Sequence

### Freshman Year

#### First Semester

- ENGL 1010 - English Composition

Natural Science\*

Mathematics\*

Social/Behavioral Sciences\*

Humanities/Fine Arts

#### Second Semester

- ENGL 1020 - English Comp/Analysis
- PSYC 1030 - General Psychology

Natural Science\*

History\*

Humanities\*

Year Totals : 32 Hours

### Sophomore Year

#### First Semester

- PETE 2000 - Introduction to PETE
- PETE 2009 - Ed Dance/Movement Concepts
- PETE 2003 - Skill Comp Individual Sport

Elective

- COMM 2381 - Oral Communication
- HLSC 2100 - Wellness Concepts Practice

## Second Semester

- PETE 2006 - Ed Gym/Movement Concepts
- PETE 2002 - Ed Games/Team Sport Skill
- EDPR 2111 - Development Across Lifespan
- ESMS 2015 - Resistance/Aerobic Training Applications
- PETE 2500 - Methods Techniques of Coaching
- PETE 3308 - Exceptional Learner Phys Ed

Year Totals : 33 Hours

## Junior Year

### First Semester

- IDT 3600 - Technology in Education
- PHED 1713 - Intermediate Swim \*\*
- ICL 3333 - Stdnt Assess/Inst Dec Mkng
- PETE 3307 - Psychosocial Aspect of Sport
- ESMS 3405 - Structure and Function of Anatomic Kinesiology

### Second Semester

- PETE 3800 - Instr Strategies Phys Ed
- ESMS 3700 - Exercise Physiology Introduction
- ENGL 2201 - Literary Heritage (or ENGL 2202)
  - History\*
- ESMS 3853 - Motor Behavior

Year Totals : 29 Hours

## Senior Year

### First Semester

- PETE 4501 - Residency I Practicum PE/Well
- PETE 4201 - Curr/Integ Learn/EI PE Well
- PETE 4301 - Curr/Integ Learn/Sec PE/Well
- PETE 4401 - Learner Assessment PE/Well

## Second Semester

- PETE 4601 - Residency II Seminar PE/Well
- PETE 4701 - Residency II Practicum PE/Well

Year Totals : 26 Hours

## Typical 4-Year Physical Education Teacher Education (Community Physical Education) Sequence

### Freshman Year

#### First Semester

- ENGL 1010 - English Composition
  - Natural Science\*
  - Mathematics\*
  - Humanities/Fine Arts\*
  - Social/Behavioral Sciences\*

#### Second Semester

- Natural Science\*
- ENGL 1020 - English Comp/Analysis
  - Humanities/Fine Arts\*
  - History\*
- PSYC 1030 - General Psychology

Semester Totals: 32 hrs

### Sophomore Year

#### First Semester

- HLSC 2100 - Wellness Concepts Practice
- PETE 2000 - Introduction to PETE
- PETE 2003 - Skill Comp Individual Sport
- PETE 2009 - Ed Dance/Movement Concepts
- PETE 3604 - Teach Phys Ed/Health/K-Middle

## Second Semester

- EDPR 2111 - Development Across Lifespan
- PETE 2006 - Ed Gym/Movement Concepts
- PETE 2500 - Methods Techniques of Coaching
- ESMS 2015 - Resistance/Aerobic Training Applications
- ENGL 2201 - Literary Heritage (or ENGL 2202)
  - Elective (2)

Semester Totals: 31 hrs

## Junior Year

### First Semester

- PETE 3307 - Psychosocial Aspect of Sport
- SLS 3305 - Leisure/Recreation Prog Devlp
- COMM 2381 - Oral Communication
  - Elective (3)
- IDT 3600 - Technology in Education

### Second Semester

- PETE 3800 - Instr Strategies Phys Ed
- SLS 3103 - Outdoor Rec/Ed Urban America
- PHED 1711 - Beginning Swimming I
- ESMS 3853 - Motor Behavior
- PETE 3308 - Exceptional Learner Phys Ed

Semester Totals: 29 hrs

## Senior Year

### First Semester

- SOCI 3422 - Racial/Ethnc Minorities
  - Upper Division Electives (12)\*\*



## Second Semester

- PETE 4605 - Intern/PETE/Community PE
  - Elective\*\* (4)

Semester Totals: 28 hrs

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\* Swimming credit can be substituted with advanced courses in swimming. CPR Certification required for Student Teaching. Course not required but advised.

## Major: Physical Education Teacher Education

Program objectives for a B.S.Ed. in Physical Education Teacher Education are: (a) to identify critical elements of motor skill performance, and combine motor skills into appropriate sequences for the purpose of improving learning; (b) to demonstrate competent motor skill performance in a variety of physical activities; (c) to describe performance concepts and strategies related to skillful movement and physical activity (e.g., fitness principles, game tactics, skill improvement principles); (d) to describe and apply bioscience (anatomical, physiological, and biomechanical) and psychological concepts to skillful movement, physical activity, and fitness; (e) to understand and debate current physical education/activity issues and laws based on historical, philosophical, and sociological perspectives; (f) to demonstrate knowledge of approved state and national content standards and local program goals in schools and community settings.

## Major: Health Studies

Program objectives for a B.S. in Health Studies are: (a) to demonstrate critical thinking skills, specifically in the areas of evaluating evidence and understanding sources; (b) to demonstrate proficiency in written and oral communication and computer utilization; (c) to use knowledge of functional anatomy and biomechanics to analyze and evaluate movement and to prescribe exercises to prevent injuries and enhance performance; (d) to recognize risk factors (i.e., cardiovascular, metabolic, musculoskeletal) and their relationship to physical activity, nutrition and other lifestyle behaviors; identify risk factors, which may require consultation with medical or allied health professionals (e) to demonstrate an understanding of principles and research-based guidelines for nutrition, body composition, and weight management when analyzing current status and prescribing desirable changes; (f) to demonstrate understanding of the basic principles of program planning, management, evaluation, and administration of health and wellness programs and facilities; (g) to be able to formulate research questions, collect and analyze data, and make appropriate conclusions based on data results.

## Major

### Health Studies - Dietetics Concentration, (B.S.)

### Health Studies (B.S.)

Program objectives for a B.S. in Health Studies are: (a) to demonstrate critical thinking skills, specifically in the areas of evaluating evidence and understanding sources; (b) to demonstrate proficiency in written and oral communication and computer utilization; (c) to use knowledge of functional anatomy and biomechanics to analyze and evaluate movement and to prescribe exercises to prevent injuries and enhance performance; (d) to recognize risk factors (i.e., cardiovascular, metabolic, musculoskeletal) and their relationship to physical activity, nutrition and other lifestyle behaviors; identify risk factors, which may require consultation with medical or allied health professionals (e) to demonstrate an understanding of principles and research-based guidelines for nutrition, body composition, and weight management when analyzing current status and prescribing desirable changes; (f) to demonstrate understanding of the basic principles of program planning, management, evaluation, and administration of health and wellness programs and facilities; (g) to be able to formulate research questions, collect and analyze data, and make appropriate conclusions based on data results.

## University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### NOTE:

Students in the Dietetics Concentration will take CHEM 1110 CHEM 1111 CHEM 1120 CHEM 1121 to complete General Education Natural Science.

## The Major (11 hours)

- BIOL 2010 - Anatomy/Physiology I
- BIOL 2011 - Anat/Physiology I Lab
- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab
- NUTR 2202 - Nutrition

## Dietetics (53 hours):

- NUTR 2102 - Intro to Dietetics
- NUTR 2302 - Introduction to Foods
- NUTR 2303 - Intro to Foods Laboratory
- NUTR 3002 - Advanced Human Metabolism I
- NUTR 3502 - Adv Foods/Food Systems
- NUTR 4102 - Medical Nutrition Therapy I
- NUTR 4112 - Medical Nutrition Therapy II
- NUTR 4602 - Community Nutrition
- NUTR 4605 - Internship in Nutrition
- NUTR 4802 - Experimental Foods
- NUTR 4803 - Experimental Foods Laboratory
- NUTR 4812 - Adv Human Metabolism II
- NUTR 4000 - Senior Seminar in Dietetics
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
- CHEM 3511 - Foundations/Bioorganic CHEM
- ESMS 3700 - Exercise Physiology Introduction

- BIOL 1230 - Microbiology
- BIOL 1231 - Microbiology Lab
- ACCT 2010 - Fundamentals of Acct I
- MKTG 3010 - Principles of Marketing
- MGMT 3110 - Organization and Mgmt
- EDPR 4541 - Fundmntl/Applied Stat Method
- HMSE 2000 - Health/Sport Sc Terminology
- HMSE 4999 - Senior Project/HSS

## Electives (3-34 hours)

Selected in consultation with advisor to bring the total number of credit hours to 120. Guided Electives.

In some of the above courses, variable hours of supervised laboratory/field experience will be required.

## Typical 4-Year Dietetics Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3) \*
  - History (3) \*
  - Humanities/Fine Arts (3) \*
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 1020 - English Comp/Analysis
  - Humanities/Fine Arts (3) \*
- PSYC 1030 - General Psychology
  - History (3) \*
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

Semester Totals 32 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- NUTR 2102 - Intro to Dietetics
- NUTR 2202 - Nutrition
- NUTR 2302 - Introduction to Foods
- NUTR 2303 - Intro to Foods Laboratory
- BIOL 2010 - Anatomy/Physiology I

- BIOL 2011 - Anat/Physiology I Lab
- COMM 2381 - Oral Communication
- SOCI 1010 - Introduction to Sociology
- ACCT 2010 - Fundamentals of Acct I
- HMSE 2000 - Health/Sport Sc Terminology
- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab

Semester Totals 31 hrs

## Junior Year

- BIOL 1230 - Microbiology
- BIOL 1231 - Microbiology Lab
- MKTG 3010 - Principles of Marketing
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
  - Elective (3)
- NUTR 3002 - Advanced Human Metabolism I
- NUTR 3502 - Adv Foods/Food Systems
- CHEM 3511 - Foundations/Bioorganic CHEM
- ESMS 3700 - Exercise Physiology Introduction
  - Elective (3)

Semester Totals 29 hrs

## Senior Year

- NUTR 4102 - Medical Nutrition Therapy I
- NUTR 4802 - Experimental Foods
- NUTR 4803 - Experimental Foods Laboratory
- NUTR 4812 - Adv Human Metabolism II
- MGMT 3110 - Organization and Mgmt
- NUTR 4000 - Senior Seminar in Dietetics
- NUTR 4112 - Medical Nutrition Therapy II
  - Elective (2)
- NUTR 4602 - Community Nutrition
- NUTR 4605 - Internship in Nutrition
- HMSE 4999 - Senior Project/HSS

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Health Studies - Exercise, Sport, & Movement Sciences Concentration, (B.S.)**

### **Health Studies (B.S.)**

Program objectives for a B.S. in Health Studies are: (a) to demonstrate critical thinking skills, specifically in the areas of evaluating evidence and understanding sources; (b) to demonstrate proficiency in written and oral communication and computer utilization; (c) to use knowledge of functional anatomy and biomechanics to analyze and evaluate movement and to prescribe exercises to prevent injuries and enhance performance; (d) to recognize risk factors (i.e., cardiovascular, metabolic, musculoskeletal) and their relationship to physical activity, nutrition and other lifestyle behaviors; identify risk factors, which may require consultation with medical or allied health professionals (e) to demonstrate an understanding of principles and research-based guidelines for nutrition, body composition, and weight management when analyzing current status and prescribing desirable changes; (f) to demonstrate understanding of the basic principles of program planning, management, evaluation, and administration of health and wellness programs and facilities; (g) to be able to formulate research questions, collect and analyze data, and make appropriate conclusions based on data results.

#### **Note:**

Exercise, Sport, & Movement Science concentration may take any two of the the General Education natural sciences courses with lab in addition to BIOL 2010 and BIOL 2020 and labs.

#### **The Major (11 hours)**

- BIOL 2010 - Anatomy/Physiology I
- BIOL 2011 - Anat/Physiology I Lab
- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab
- NUTR 2202 - Nutrition

#### **Exercise, Sport, & Movement Sciences (46 hours):**

- HMSE 2000 - Health/Sport Sc Terminology
- ESMS 2004 - Intro to Exercise Science
- ESMS 2015 - Resistance/Aerobic Training Applications
- ESMS 3020 - Exercise and Sport Mechanics
- ESMS 3050 - Advanced Life Support Exercise, Conditioning, Testing
- ESMS 3410 - Anatomic Kinesiology I
- ESMS 3415 - Anatomic Kinesiology II
- ESMS 3450 - Psychological Aspects of Exercise

- ESMS 3603 - Exercise Physiology I
- ESMS 3703 - Exercise Physiology II
- ESMS 3803 - Motor Learning
- ESMS 4000 - Exercise Test Interpretation Lab
- ESMS 4015 - Exercise Programs for Special Populations
- ESMS 4603 - Adv Meth/Strength Condition
- HLSC 4400 - Statistics for Health Sciences
- ESMS 4605 - Internship in Exercise Sport and Movement Sciences

## Electives (3-34 hours)

Selected in consultation with advisor to bring the total number of credit hours to 120. Guided Electives.

In some of the above courses, variable hours of supervised laboratory/field experience will be required.

## Typical 4-Year Exercise, Sport, & Movement Sciences Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities/Fine Arts (3) \*
  - MATH (3) \*
  - Social/Behavioral Sciences (3) \*
  - Natural Sciences (4) \*
- ENGL 1020 - English Comp/Analysis
  - History (3)\*
  - Natural Sciences (4)\*
  - Social/Behavioral Sciences (3)\*
  - Humanities/Fine Arts (3)\*

### Semester Totals 32 hrs

### Sophomore Year

- History (3) \*
- BIOL 2010 - Anatomy/Physiology I
- BIOL 2011 - Anat/Physiology I Lab
- ESMS 2004 - Intro to Exercise Science
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- NUTR 2202 - Nutrition

- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab
- COMM 2381 - Oral Communication
  - Elective (3)
- ESMS 2015 - Resistance/Aerobic Training Applications
- HMSE 2000 - Health/Sport Sc Terminology

Semester Totals 30 hrs

## Junior Year

- ESMS 3050 - Advanced Life Support Exercise, Conditioning, Testing
- ESMS 3410 - Anatomic Kinesiology I
- ESMS 3415 - Anatomic Kinesiology II
- ESMS 3703 - Exercise Physiology II
- ESMS 3803 - Motor Learning
  - Elective (3)
- ESMS 3450 - Psychological Aspects of Exercise
- ESMS 3603 - Exercis Physiology I
- ESMS 3020 - Exercise and Sport Mechanics
  - Elective (3)
  - Elective (4)

Semester Totals 31 hrs

## Senior Year

- ESMS 4000 - Exercise Test Interpretation Lab
- ESMS 4015 - Exercise Programs for Special Populations
- ESMS 4603 - Adv Meth/Strength Condition
- HLSC 4400 - Statistics for Health Sciences
- ESMS 4605 - Internship in Exercise Sport and Movement Sciences (6)
  - Elective (3)
  - Elective (3)

Semester Totals 27 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## **Health Studies - Health Sciences Concentration, (B.S.)**

### **Health Studies (B.S.)**

Program objectives for a B.S. in Health Studies are: (a) to demonstrate critical thinking skills, specifically in the areas of evaluating evidence and understanding sources; (b) to demonstrate proficiency in written and oral communication and computer utilization; (c) to use knowledge of functional anatomy and biomechanics to analyze and evaluate movement and to prescribe exercises to prevent injuries and enhance performance; (d) to recognize risk factors (i.e., cardiovascular, metabolic, musculoskeletal) and their relationship to physical activity, nutrition and other lifestyle behaviors; identify risk factors, which may require consultation with medical or allied health professionals (e) to demonstrate an understanding of principles and research-based guidelines for nutrition, body composition, and weight management when analyzing current status and prescribing desirable changes; (f) to demonstrate understanding of the basic principles of program planning, management, evaluation, and administration of health and wellness programs and facilities; (g) to be able to formulate research questions, collect and analyze data, and make appropriate conclusions based on data results.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

#### **Note:**

Health Sciences concentration must take:

Social/Behavioral Science:

- PSYC 1030 - General Psychology

### **The Major (11 hours)**

- BIOL 2010 - Anatomy/Physiology I
- BIOL 2011 - Anat/Physiology I Lab



- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab
- NUTR 2202 - Nutrition

## Health Sciences (30 hours):

- HLSC 2100 - Wellness Concepts Practice
- HLSC 2200 - Introduction to Public Health/Health Studies
- HLSC 3505 - Prin/Health Fitness Instruc
- HLSC 3522 - Assessment and Program Evaluation in Health Sciences (HSCI)
- HLSC 3800 - Strategic Planning& Program Development
- HLSC 4500 - Project Management in Health Sciences
- HLSC 4520 - Health and Lifestyle Counseling
- HLSC 4530 - Epidemiology
- ESMS 2015 - Resistance/Aerobic Training Applications
- ESMS 3700 - Exercise Physiology Introduction

## Internship

A satisfactory grade (S) is required for completion of the Health Sciences internship requirement.

- HLSC 4605 - Internship in Health Sciences

## Electives (40 hours)

Selected in consultation with advisor to bring the total number of credit hours to 120. In some of the above courses, variable hours of supervised laboratory/field experience will be required.

## Typical 4-Year Health Sciences Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Humanities (3) \*
  - MATH (3) \*
  - History (3) \*
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
- PSYC 1030 - General Psychology
- HLSC 2100 - Wellness Concepts Practice
  - Humanities (3)\*
  - Elective (3)

## Semester Totals 30 hrs

### Sophomore Year

- History (3) \*
- BIOL 2010 - Anatomy/Physiology I
- BIOL 2011 - Anat/Physiology I Lab
  - Social/Behavioral Science
- ENGL 2201 - Literary Heritage or
- ENGL 2202 - Lit Heritage: African-American
- NUTR 2202 - Nutrition
  
- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab
- COMM 2381 - Oral Communication
- ESMS 2015 - Resistance/Aerobic Training Applications
- HLSC 2200 - Introduction to Public Health/Health Studies
  - Elective (3)

## Semester Totals 32 hrs

### Junior Year

- HLSC 3522 - Assessment and Program Evaluation in Health Sciences (HSCI)
- HLSC 3800 - Strategic Planning & Program Development
- HLSC 3505 - Prin/Health Fitness Instruc
  - Elective (3)
  - Elective (3)
  
- ESMS 3700 - Exercise Physiology Introduction
- HLSC 4520 - Health and Lifestyle Counseling
  - Elective (3)
  - Elective (3)
  - Elective (3)

## Semester Totals 30 hrs

### Senior Year

- HLSC 4500 - Project Management in Health Sciences
- HLSC 4530 - Epidemiology
  - Elective (3)
  - Elective (3)

Elective (3)

- HLSC 4605 - Internship in Health Sciences

- Elective (3)
- Elective (4)

Semester Totals 28 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\* Must show proof of current First Aid and CPR certification before Internship.

## **Health Studies - Healthcare Leadership Concentration, (B.S.)**

### **Health Studies (B.S.)**

Program objectives for a B.S. in Health Studies are: (a) to demonstrate critical thinking skills, specifically in the areas of evaluating evidence and understanding sources; (b) to demonstrate proficiency in written and oral communication and computer utilization; (c) to use knowledge of functional anatomy and biomechanics to analyze and evaluate movement and to prescribe exercises to prevent injuries and enhance performance; (d) to recognize risk factors (i.e., cardiovascular, metabolic, musculoskeletal) and their relationship to physical activity, nutrition and other lifestyle behaviors; identify risk factors, which may require consultation with medical or allied health professionals (e) to demonstrate an understanding of principles and research-based guidelines for nutrition, body composition, and weight management when analyzing current status and prescribing desirable changes; (f) to demonstrate understanding of the basic principles of program planning, management, evaluation, and administration of health and wellness programs and facilities; (g) to be able to formulate research questions, collect and analyze data, and make appropriate conclusions based on data results.

### **University General Education Program (41 hours)**

See Graduation from the University for the University General Education Program requirements.

### **The Major (11 hours)**

- BIOL 2010 - Anatomy/Physiology I
- BIOL 2011 - Anat/Physiology I Lab
- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab
- NUTR 2202 - Nutrition

## Healthcare Leadership (45 hours):

- COMM 3012 - Health Communication
- HCL 3000 - Healthcare Leadership
- HCL 3010 - Healthcare Financial Mgmt
- HCL 3020 - Healthcare Informatics
- HCL 3030 - Healthcare Strategic Plan/Mktg
- HCL 3040 - U S Health System
- HCL 3050 - Prof Writing Healthcare
- HCL 4000 - Health Policy Issues
- HCL 4010 - Healthcare Stats/Research
- HCL 4020 - Law/Ethics of Healthcare
- HCL 4030 - Healthcare Human Resources
- HCL 4040 - Business Principles/Healthcare
- HLSC 4530 - Epidemiology
- HCL 4605 - Internship in Healthcare Leadership

## Electives (3-34 hours)

Selected in consultation with advisor to bring the total number of credit hours to 120. Guided Electives.

In some of the above courses, variable hours of supervised laboratory/field experience will be required.

## Typical 4-Year Healthcare Leadership Concentration Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH (3) \*
  - Humanities/Fine Arts (3) \*
  - Social/Behavioral Sciences (3) \*
  - Elective (3)
- ENGL 1020 - English Comp/Analysis
  - Humanities/Fine Arts (3) \*
- NUTR 2202 - Nutrition
  - Elective (3)
  - Elective (2)

Semester Totals 29 hrs

### Sophomore Year

- BIOL 2010 - Anatomy/Physiology I

- BIOL 2011 - Anat/Physiology I Lab
  - Elective (2)
  - HIST (3) \*
  - Social/Behavioral Sciences (3) \*
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- BIOL 2020 - Anatomy/Physiology II
- BIOL 2021 - Anat/Physiology II Lab
  - HIST (3) \*
  - Elective (3)
  - Elective (3)
- COMM 2381 - Oral Communication

## Semester Totals 32 hrs

## Junior Year

- HCL 3000 - Healthcare Leadership
- HCL 3030 - Healthcare Strategic Plan/Mktg
- HCL 3040 - U S Health System
- HCL 3050 - Prof Writing Healthcare
  - Elective (3)
- HCL 3010 - Healthcare Financial Mgmt
- HCL 3020 - Healthcare Informatics
- HCL 4000 - Health Policy Issues
- HCL 4020 - Law/Ethics of Healthcare
- HCL 4030 - Healthcare Human Resources

## Semester Totals 30 hrs

## Senior Year

- HCL 4010 - Healthcare Stats/Research
- HCL 4040 - Business Principles/Healthcare
- HLSC 4530 - Epidemiology
- COMM 3012 - Health Communication
  - Elective (3)
- HCL 4605 - Internship in Healthcare Leadership
  - Elective (3)
  - Elective (3)
  - Elective (3)

Semester Totals 29 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

\*\*Senior project and internship must be a combined total of 9 hours credit.

## Herff College of Engineering

### The Herff College of Engineering

Richard J. Sweigard, Ph.D., P.E. Dean  
 Room 201, Engineering Building  
 (901) 678-4306  
<http://www.engr.memphis.edu>

## Purposes

The mission of the Herff College of Engineering is to provide quality teaching, research, and service programs to the citizens of the state, region and nation. The College provides undergraduate programs in biomedical, civil, computer, electrical, and mechanical engineering, and in engineering technology. Graduate programs are offered in all of the disciplines listed above. Each curriculum is designed to prepare students for practice of the profession in industry, government, or academic institutions. Considerable effort is directed toward breadth as well as depth to provide programs of highest quality.

## Organization

The Herff College of Engineering is organized into the Departments of Biomedical Engineering, Civil Engineering, Electrical and Computer Engineering, Mechanical Engineering, and Engineering Technology. Each department offers a choice of specialized four-year programs leading to baccalaureate degrees. Graduate programs are offered in all of the engineering disciplines listed above.

Freshman students entering the Herff College of Engineering will be advised by the College Academic Advisor, who will assist students with class schedules and facilitate changes of major and other academic needs. After students accumulate an appropriate number of hours, their advising will be transferred to a faculty member in the department of their major.

### ADMISSIONS

A student will be classified as engineering, pre-engineering, engineering technology, pre-engineering technology, or STEM Focus as follows:

1. **Engineering:** A student may declare an engineering major with a minimum placement into MATH 1910 Calculus I (MATH ACT sub-score greater than or equal to 27 or ALEKS math placement score greater than or equal to 76), or a grade of C in MATH 1720, MATH 1730, or ENGR 1010. After meeting any one of these requirements, a student may declare a Biomedical, Civil, Computer, Electrical, or Mechanical engineering major.
2. **Pre-Engineering:** A student may declare Pre-Engineering with minimum placement into MATH 1710 Combo College Algebra (MATH ACT sub-score greater than or equal to 18 or ALEKS math placement score greater than or equal to 30), or a C in MATH 1100.

3. **Engineering Technology:** A student may declare a major in Engineering Technology with a minimum placement into MATH 1710 College Algebra (MATH ACT sub-score greater than or equal to 20 or ALEKS math placement score greater than or equal to 46), or a C in ENGR 1009 or COMBO MATH 1710.
4. **Pre-Engineering Technology:** A student may declare Pre-Engineering Technology with minimum placement into MATH 1710 Combo College Algebra (MATH ACT sub-score greater than or equal to 18 or ALEKS math placement score greater than or equal to 30), or a C in MATH 1100.
5. **STEM Focus:** A student may declare STEM focus if both the MATH ACT sub-score is less than 18 and ALEKS math placement score is less than 30. The student will be advised by the Academic Counseling Center.

## Computer Requirements

Every year, software tools become more entwined with practice of the engineering profession. In addition to preparing our students for professional practice by teaching them how to use these tools, our undergraduate curricula employ software tools to efficiently and effectively deliver subject matter expertise, to enhance student-teacher interaction, to assess student learning, and to increase student achievement. Therefore, the faculty of the Herff College of Engineering requires that each student enrolled in the college's programs possess computing resources that meet or exceed certain minimum specifications. Current requirements and specifications are posted here.

## Degree Requirements

Students must satisfy all university, college and departmental degree requirement for the degree desired. University requirements may be found in the "Graduation from the University" section of this Catalog. The College requires that a minimum of 30 hours of the hours required by the University for residency be taken as upper division hours in courses in the Herff College of Engineering. Specific departmental requirements are subject to change and students should consult their advisor regularly to learn of changes that occur.

## Accelerated BS/MS

Qualified students are allowed to earn a Bachelor's degree in an approved undergraduate discipline and a Master's degree in five years. Students with high school advanced placement credits may require less time. See the departmental catalog sections for details.

Individual program requirements described in *the University of Memphis Undergraduate Catalog* are subject to change. Please consult the college level advisor for changes that may occur before publication of the next issue of this *Catalog*.

## Department of Biomedical Engineering

Biomedical Engineering is a broad field that encompasses many areas related to improving human health such as implant devices, tissue engineering/regeneration, electrophysiological signaling, and biosensors and imaging technologies for the prevention, detection, diagnosis, and treatment of diseases. The program integrates physical, chemical, mathematical, and computational sciences and engineering with biology and medicine.

The curriculum is designed to prepare graduates for professional practice and to provide a foundation for lifelong learning and professional growth. The course of study begins with a strong foundation in mathematics, physics, chemistry, biology, and engineering sciences. Departmental courses during these years build on these foundations to integrate topics in basic sciences and engineering into knowledge in biomedical engineering. The upper division years include a block of twenty-four hours (noted as BIOM, Engineering and Technical electives in the typical sequence below) to allow students, with advisor's assistance, the means to tailor study in a focused portion of the discipline and its supporting fields as desired. The elective hours must be upper division courses. Concepts and efforts in engineering design occur throughout the curriculum and culminate in a senior design project.

The Biomedical Engineering Program at the University of Memphis aims to produce graduates who demonstrate the following within the first few years after graduation.

- secure employment in biomedical or related health industries or institutions,
- pursue professional studies,
- pursue opportunities for professional growth, development, and service

Graduates of Biomedical Engineering will have demonstrated\*

- a. an ability to apply knowledge of mathematics, science, and engineering
- b. an ability to design and conduct experiments, as well as to analyze and interpret data
- c. 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
- d. an ability to function on multidisciplinary teams
- e. an ability to identify, formulate, and solve engineering problems
- f. an understanding of professional and ethical responsibility
- g. an ability to communicate effectively
- h. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- i. a recognition of the need for, and an ability to engage in life-long learning
- j. a knowledge of contemporary issues
- k. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

\*(revised April 2015)

The diversity encountered in the profession requires the successful biomedical engineer to have technical and non-technical skills, especially for communication and team efforts. Courses in the humanities and social sciences enhance non-technical skills, and explore the engineer's relationship with, and responsibility to, society. Studies in the sciences and other engineering disciplines provide a broad background for applying multidisciplinary knowledge to find solutions for biomedical problems. Materials in engineering ethics and professionalism are essential because our graduates and the field expect to enrich life and provide solutions with known benefits and defined risks.

This curriculum equips typical Biomedical Engineering graduates of the University of Memphis with the skills, knowledge, and perspectives required for success in a variety of professional roles. These include the ability to conduct project design work, to work collaboratively on projects, to interact and communicate successfully across disciplines and with the public, and to pursue professional careers ranging from research and development, testing and quality control, regulatory, sales and marketing, and advanced studies in engineering, business, medicine, law, or other fields if so desired.

**ADMISSION:** After admission to the university the student will be classified as pre-engineering or engineering based upon measures of preparedness for mathematics. See the Herff College of Engineering section of the catalog for more detail. A student may declare the Biomedical Engineering major if the student places into MATH 1910 Calculus 1, or upon earning a grade of at least "C" in MATH 1720, MATH 1730, or ENGR 1010.

Monitoring of a student's progress will be performed by the Herff College of Engineering academic advisor. A student will not be forwarded to the academic department for advising until the student has met the conditions to declare the Biomedical Engineering major. Exceptions to these criteria are at the discretion of the department chair.

**GRADUATION:** To qualify for the degree of Bachelor of Science in Biomedical Engineering, the student must satisfy University and College requirements, obtain a minimum 2.0 grade point average on all work completed, and obtain a minimum grade of "C-" in all engineering, mathematics, physics, biology, and chemistry courses used to satisfy degree requirements. Waiver of departmental graduation requirements for exceptional circumstances will be granted only upon approval of both the department chair and the Dean of the College of Engineering (or designee).

#### **Honors in Biomedical Engineering**

The Biomedical Engineering Honors Program is for highly motivated and high-achieving students that provides special opportunities to advance the career and professional development of the student. The program aims to develop student talents, interests, and abilities within a curriculum, as well as encouraging independence and creativity.

Students are eligible for the honors program in biomedical engineering if they have and maintain a cumulative GPA of 3.4 with at least junior standing, and have received approval from the departmental honors committee. The honors program in biomedical engineering requires a minimum of 10 hours of upper-division biomedical engineering honors courses, including both BIOM 4800 BME Honors seminar, and completion of an honors thesis (BIOM 4999). Students who complete the honors program and the requirements for the B.S. in Biomedical Engineering will be recognized at the commencement ceremony by having their degree conferred "With Honors in Biomedical Engineering." Honors designation will also appear on the student's diploma and academic transcript.



## Major

### Biomedical Engineering, (B.S.B.E.)

#### University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

#### Communication:

- ENGL 3603 - Engineering Communications instead of COMM 2381

#### Mathematics:

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

#### Social/Behavioral Sciences:

Must be taken in addition to 3 hours from the other specified choices

- ECON 2010 - Intro to Macroeconomics

#### Natural Science:

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

#### History:

American history waived for B.S.B.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (26 hours)

### Mathematics (11 hours):

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Sciences (8 Credits):

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab

### Collateral Courses (7 hours):

- ENGR 1010 - Engineering Problem Solving
- EECE 2201 - Circuit Analysis I
- EECE 2203 - Circuit Analysis Lab

or

- EECE 2283 - Electrical Engr/Instrumentation
- EECE 2281 - Instrumentation Lab

## The Major (64 hours)

### Completion of 40 hours from

- BIOM 1701 - Introduction to Biomedical Engineering Design
  - BIOM 1702 - Biomedication Engineering Visualization
  - BIOM 1720 - Intro Biomed Engr Tools
  - CHEM 1120 - General Chemistry II
  - CHEM 1121 - General Chemistry II Lab
  - BIOL 1120 - General Biology II
  - BIOL 2011 - Anat/Physiology I Lab
- or
- BIOL 2021 - Anat/Physiology II Lab
  - BIOM 2720 - Experimental Design Analysis
  - BIOM 2810 - Intro Biomechanics/Mechanics of Materials

- BIOM 3010 - Medical Measurements
- BIOM 3110 - Med Physiology/BIOM

Or

- BIOL 3730 - Vertebrate Physiology
- BIOM 3710 - Physiological System/Modeling
- BIOM 4730 - Biomaterials
- BIOM 4760 - Biomed Engr Design Principles
- BIOM 4780 - Senior Project

## Completion of 24 hours of

Completion of 24 hours of BIOM, Engineering and Technical electives approved by the advisor. At least 6 hours must be satisfied with BIOM electives. Nine hours of electives must be chosen from upper division engineering courses. Six hours of technical electives may be chosen from upper division courses in BIOL, BIOM, CHEM, EECE, MATH, MECH and PHYS. The remaining 3 hours must be chosen from engineering or upper-division courses in BIOL. Courses at this level in other departments can be chosen with permission of the chair or the chair's designee. Some courses to meet these requirements are:

- BIOM 4720 - Bioelectricity
- BIOM 4750 - Biomechanics
- BIOM 4702 - Biotechn Tools for BME Res
- BIOM 4205 - Intro Biomed and Chem Sensors
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- EECE 3211 - Electronics I
- EECE 3221 - Matrix Computer Methods
- EECE 3240 - Electromagnetic Field Theory
- MATH 3242 - Intro Linear Algebra
- MATH 4391 - Partial Differential Eqns I
- MATH 4721 - Numerical Analysis
- BIOL 3130 - Cell Biology
- BIOL 4511 - Biochemistry I
- MECH 3311 - Engineering Thermodynamics I
- MECH 3322 - Mechanics of Materials
- MECH 3325 - Materials Laboratory
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 4324 - Computer Methods in Design
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- BIOL 3500 - Micro I/Fundmntl Aspect
- BIOL 4094 - Special Topics in Biology
- BIOL 4380 - Histology/Tissue/Organ
- BIOL 4445 - Immunology

## Policy on repeated courses:

Students must earn a grade of at least "C-" in all BIOM courses applied toward the major, and in all required engineering, chemistry, physics and mathematical courses. BIOM, BIOL, CHEM, MATH and PHYS courses applicable toward the major may not be taken more than three times. Students must earn a grade of at least "C-" in BIOM 2810 before enrolling in any upper division BIOM course.

Any BIOM course applicable toward the major may be repeated once to earn a minimum grade of "C-". To repeat a course a second time, a student must apply for and receive special permission from the department Undergraduate Studies Committee. Application

information is available from one of the Academic Coordinators. A student may not attempt the same BIOM course more than three times, regardless of where it was taken. Courses cross-listed with BIOM (e.g. BIOL 4110, MECH 4365) are also subject to this course repetition policy.

## Typical 4-Year Biomedical Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
- BIOM 1701 - Introduction to Biomedical Engineering Design
- BIOM 1702 - Biomedication Engineering Visualization
- ENGR 1010 - Engineering Problem Solving
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- MATH 1920 - Calculus II
- BIOM 1720 - Intro Biomed Engr Tools
- ENGL 1020 - English Comp/Analysis

Academic Year Total 34 hrs

### Sophomore Year

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- BIOM 2720 - Experimental Design Analysis
- BIOL 1120 - General Biology II
- BIOL 2011 - Anat/Physiology I Lab
- BIOM 2810 - Intro Biomechanics/Mechanics of Materials
  
- EECE 2201 - Circuit Analysis I
  
- or
  
- EECE 2283 - Electrical Engr/Instrumentation
- EECE 2281 - Instrumentation Lab
  
- MATH 2120 - Differential Equations

Academic Year Total 30 hrs

## Junior Year

- BIOM 3010 - Medical Measurements
- ECON 2010 - Intro to Macroeconomics
- BIOM 3110 - Med Physiology/BIOM
  - Engineering Elective (3)
- ENGL 2201 - Literary Heritage

Or

- ENGL 2202 - Lit Heritage: African-American
- BIOM 3710 - Physiological System/Modeling
- BIOM 4730 - Biomaterials
  - Tech elective (3)
  - Engineering elective (3)
- ENGL 3603 - Engineering Communications

Academic Year Total 34 hrs

## Senior Year

- BIOM 4760 - Biomed Engr Design Principles
  - Humanities/Fine Arts (3) \*
  - BIOM Elec (3)
  - Tech elective (3)
  - Engineering elective (3)
- BIOM 4780 - Senior Project
  - BIOM Elec (4)
  - Engr Elec (3)
  - Humanities/Fine Arts (3) \*
  - Social/Behavioral Sciences\* (3)

Academic Year Total 30 hrs

Total Hours: 126

Total Hours Required for Graduation: 126

*\*Must satisfy University General Education Program Requirement*

## Graduation

To qualify for the degree of Bachelor of Science in Biomedical Engineering, the student must satisfy University and College requirements, obtain a minimum 2.0 grade point average on all work completed, and obtain a minimum grade of "C-" in all engineering, mathematics, physics, biology, and chemistry courses used to satisfy degree requirements. Waiver of departmental graduation requirements for exceptional circumstances will be granted only upon approval of both the department chair and the Dean of the College of Engineering (or designee).

## Honors in Biomedical Engineering

The Biomedical Engineering Honors Program is for highly motivated and high-achieving students that provides special opportunities to advance the career and professional development of the student. The program aims to develop student talents, interests, and abilities within a curriculum, as well as encouraging independence and creativity.

Students are eligible for the honors program in biomedical engineering if they have and maintain a cumulative GPA of 3.4 with at least junior standing, and have received approval from the departmental honors committee. The honors program in biomedical engineering requires a minimum of 10 hours of upper-division biomedical engineering honors courses, including both BIOM 4800 BME Honors seminar, and completion of an honors thesis (BIOM 4999). Students who complete the honors program and the requirements for the B.S. in Biomedical Engineering will be recognized at the commencement ceremony by having their degree conferred "With Honors in Biomedical Engineering." Honors designation will also appear on the student's diploma and academic transcript.

## Accelerated Bachelor/Masters

### Biomedical Engineering, (Accelerated B.S.B.E./M.S.)

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Biomedical Engineering during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S.B.E./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Biomedical Engineering.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.S.B.E. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Biomedical Engineering department. Each applicant will complete an interview with the graduate academic coordinator in biomedical engineering.

Students must also apply to the Graduate School for the accelerated B.S.B.E./M.S. program, which allows them to take graduate courses in biomedical engineering. To continue in the program past the B.S.B.E., students must apply for full admission into the Graduate School and into the Biomedical Engineering department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

## Communication:

- ENGL 3603 - Engineering Communications instead of COMM 2381

## Mathematics:

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

## Social/Behavioral Sciences:

Must be taken in addition to 3 hours from the other specified choices

- ECON 2010 - Intro to Macroeconomics

## Natural Science:

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History:

American history waived for B.S.B.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (26 hours)

### Mathematics (11 hours):

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

## Natural Sciences (8 Credits):

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab

## Collateral Courses (7 hours):

- ENGR 1010 - Engineering Problem Solving
- EECE 2201 - Circuit Analysis I
- EECE 2203 - Circuit Analysis Lab

or

- EECE 2283 - Electrical Engr/Instrumentation
- EECE 2281 - Instrumentation Lab

## The Major (64 hours)

### Completion of 40 hours from

- BIOM 1701 - Introduction to Biomedical Engineering Design
- BIOM 1702 - Biomedication Engineering Visualization
- BIOM 1720 - Intro Biomed Engr Tools
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- BIOL 1120 - General Biology II

- BIOL 2011 - Anat/Physiology I Lab

or

- BIOL 2021 - Anat/Physiology II Lab
- BIOM 2720 - Experimental Design Analysis
- BIOM 2810 - Intro Biomechanics/Mechanics of Materials
- BIOM 3010 - Medical Measurements
- BIOM 3110 - Med Physiology/BIOM

Or

- BIOL 3730 - Vertebrate Physiology
- BIOM 3710 - Physiological System/Modeling
- BIOM 4730 - Biomaterials
- BIOM 4760 - Biomed Engr Design Principles
- BIOM 4780 - Senior Project



## Completion of 24 hours of

Completion of 24 hours of BIOM, Engineering and Technical electives approved by the advisor. At least 6 hours must be satisfied with BIOM electives. Nine hours of electives must be chosen from upper division engineering courses. Six hours of technical electives may be chosen from upper division courses in BIOL, BIOM, CHEM, EECE, MATH, MECH and PHYS. The remaining 3 hours must be chosen from engineering or upper-division courses in BIOL. Courses at this level in other departments can be chosen with permission of the chair or the chair's designee. Some courses to meet these requirements are:

- BIOM 4720 - Bioelectricity
- BIOM 4750 - Biomechanics
- BIOM 4702 - Biotechn Tools for BME Res
- BIOM 4205 - Intro Biomed and Chem Sensors
- CHEM 3310 - Foundations/Organic Chemistry
- CHEM 3301 - Foundations/Organic Chem Lab
- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- EECE 3211 - Electronics I
- EECE 3221 - Matrix Computer Methods
- EECE 3240 - Electromagnetic Field Theory
- MATH 3242 - Intro Linear Algebra
- MATH 4391 - Partial Differential Eqns I
- MATH 4721 - Numerical Analysis
- BIOL 3130 - Cell Biology
- BIOL 4511 - Biochemistry I
- MECH 3311 - Engineering Thermodynamics I
- MECH 3322 - Mechanics of Materials
- MECH 3325 - Materials Laboratory
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 4324 - Computer Methods in Design
- PHYS 3010 - Intro Modern Physics
- PHYS 3011 - Methods of Theoretical Phys I
- BIOL 3500 - Micro I/Fundmntl Aspect
- BIOL 4094 - Special Topics in Biology
- BIOL 4380 - Histology/Tissue/Organ
- BIOL 4445 - Immunology

## Policy on repeated courses:

Students must earn a grade of at least "C-" in all BIOM courses applied toward the major, and in all required engineering, chemistry, physics and mathematical courses. BIOM, BIOL, CHEM, MATH and PHYS courses applicable toward the major may not be taken more than three times. Students must earn a grade of at least "C-" in BIOM 2810 before enrolling in any upper division BIOM course.

Any BIOM course applicable toward the major may be repeated once to earn a minimum grade of "C-". To repeat a course a second time, a student must apply for and receive special permission from the department Undergraduate Studies Committee. Application information is available from one of the Academic Coordinators. A student may not attempt the same BIOM course more than three times, regardless of where it was taken. Courses cross-listed with BIOM (e.g. BIOL 4110, MECH 4365) are also subject to this course repetition policy.

## Accelerated B.S.B.E./M.S. Program in Biomedical Engineering

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Biomedical Engineering during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S.B.E./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Biomedical Engineering.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.S.B.E. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Biomedical Engineering department. Each applicant will complete an interview with the graduate academic coordinator in biomedical engineering.

Students must also apply to the Graduate School for the accelerated B.S.B.E./M.S. program, which allows them to take graduate courses in biomedical engineering. To continue in the program past the B.S.B.E., students must apply for full admission into the Graduate School and into the Biomedical Engineering department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 4-Year Biomedical Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
- BIOM 1701 - Introduction to Biomedical Engineering Design
- BIOM 1702 - Biomedication Engineering Visualization
- ENGR 1010 - Engineering Problem Solving
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab
- MATH 1920 - Calculus II
- BIOM 1720 - Intro Biomed Engr Tools
- ENGL 1020 - English Comp/Analysis

Academic Year Total 34 hrs

### Sophomore Year

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- BIOM 2720 - Experimental Design Analysis
- BIOL 1120 - General Biology II
- BIOL 2011 - Anat/Physiology I Lab
- BIOM 2810 - Intro Biomechanics/Mechanics of Materials
  
- EECE 2201 - Circuit Analysis I

or

- EECE 2283 - Electrical Engr/Instrumentation
- EECE 2281 - Instrumentation Lab
- MATH 2120 - Differential Equations

Academic Year Total 30 hrs

## Junior Year

- BIOM 3010 - Medical Measurements
- ECON 2010 - Intro to Macroeconomics
- BIOM 3110 - Med Physiology/BIOM
  - Engineering Elective (3)
- ENGL 2201 - Literary Heritage

Or

- ENGL 2202 - Lit Heritage: African-American
- BIOM 3710 - Physiological System/Modeling
- BIOM 4730 - Biomaterials
  - Tech elective (3)
  - Engineering elective (3)
- ENGL 3603 - Engineering Communications

Academic Year Total 34 hrs

## Senior Year

- BIOM 4760 - Biomed Engr Design Principles
  - Humanities/Fine Arts (3) \*
  - BIOM Elec (3)
  - Tech elective (3)
  - Engineering elective (3)
- BIOM 4780 - Senior Project
  - BIOM Elec (4)
  - Engr Elec (3)
  - Humanities/Fine Arts (3) \*
  - Social/Behavioral Sciences\* (3)

Academic Year Total 30 hrs

Total Hours: 126

Total Hours Required for Graduation: 126

*\*Must satisfy University General Education Program Requirement*

## Graduation

To qualify for the degree of Bachelor of Science in Biomedical Engineering, the student must satisfy University and College requirements, obtain a minimum 2.0 grade point average on all work completed, and obtain a minimum grade of "C-" in all engineering, mathematics, physics, biology, and chemistry courses used to satisfy degree requirements. Waiver of departmental graduation requirements for exceptional circumstances will be granted only upon approval of both the department chair and the Dean of the College of Engineering (or designee).

## Honors in Biomedical Engineering

The Biomedical Engineering Honors Program is for highly motivated and high-achieving students that provides special opportunities to advance the career and professional development of the student. The program aims to develop student talents, interests, and abilities within a curriculum, as well as encouraging independence and creativity.

Students are eligible for the honors program in biomedical engineering if they have and maintain a cumulative GPA of 3.4 with at least junior standing, and have received approval from the departmental honors committee. The honors program in biomedical engineering requires a minimum of 10 hours of upper-division biomedical engineering honors courses, including both BIOM 4800 BME Honors seminar, and completion of an honors thesis (BIOM 4999). Students who complete the honors program and the requirements for the B.S. in Biomedical Engineering will be recognized at the commencement ceremony by having their degree conferred "With Honors in Biomedical Engineering." Honors designation will also appear on the student's diploma and academic transcript.

## Department of Civil Engineering

The Civil Engineering program is designed to equip students with the knowledge and skills required to identify and solve the technical problems of society in a practical and ethical way. The faculty are committed to teaching, inspiring, and mentoring students who will meet the following objectives: (1) graduates will meet the expectations of employers of civil engineers; (2) qualified graduates will pursue advanced study if that is consistent with their career plans; and (3) graduates will assume/undertake leadership roles in their communities and/or professions.

Civil engineering graduates will engage in a broad range of self-development activities that benefit the civil engineering profession and the community. The civil engineering program is greatly enhanced by a diverse student body spanning a wide range of ages, backgrounds, and nationalities.

The Civil Engineering program of study provides an integrated educational experience that combines study in basic and engineering science, the humanities, and the social sciences with practical experience in laboratory experimentation, problem solving, and engineering design. Students may pursue a general course of study or may elect to specialize in water resources or one of the following concentrations: environmental, structural, geotechnical, transportation, or construction engineering.

**ADMISSION:** Students will be classified as pre-engineering or engineering based upon measures of preparedness for mathematics. See the Herff College of Engineering section of the catalog for more detail. A student may declare the Civil Engineering major if the student places into MATH 1910 Calculus 1, or upon earning a grade of at least "C" in MATH 1720 , MATH 1730 , or ENGR 1010 .

Monitoring of a student's progress will be performed by the Herff College of Engineering academic advisor. A student will not be forwarded to the academic department for advising until the student has met the conditions to declare the Civil Engineering major. Exceptions to these criteria are at the discretion of the department chair.

**GRADUATION:** To qualify for the degree of Bachelor of Science in Civil Engineering, a student must satisfy general university and college requirements, have a minimum grade of "C" in all engineering, science, and mathematics courses that are applied toward the degree, and complete the course sequence outlined below. For credits transferred from another institution, only those civil engineering, science, and mathematics courses with a minimum grade of "C" may be applied toward the degree. Waiver of departmental graduation requirements for exceptional circumstances will be granted only upon approval of both the department chair and the Dean of the College of Engineering (or designee).

**HONORS PROGRAM:** Students are eligible for the honors program in Civil Engineering if they have an minimum overall GPA of 3.25 with a junior or senior standing or have received approval of the departmental honors committee. The honors program in civil engineering requires 12 hours of upper division honors courses. Those students who complete the program and the regular B.S.C.E. requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Civil Engineering." Moreover, the student's diploma and record at the University of Memphis will reflect this accomplishment. Details concerning this program and honors course offerings are available in the Department of Civil Engineering.

## Major

### Civil Engineering - Construction Engineering Concentration, (B.S.C.E.)

#### University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

#### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

#### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

#### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I

- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History

Waived for B.S.C.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)

### Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization
- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I
  
- CIVL 3131 - Design of Steel Structures
  
- or
  
- CIVL 4135 - Reinforced Concrete Design
  
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

### Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

#### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

#### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design

or

- CIVL 3131 - Design of Steel Structures
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering
- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project
  - CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology

## Construction Engineering:

A student may select courses from the following concentration to satisfy civil engineering elective requirements. If the student declares a concentration, a minimum of 9 hours from that concentration area is required.

- CIVL 4164 - Route Location and Design
- CIVL 4171 - Construction Engineering
- CIVL 4191 - Civil Engr Project

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)



## Academic Year Total 35 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- CIVL 3322 - Mechanics of Materials

## Academic Year Total 35 hrs

### Junior Year

- CIVL 3137 - Civil Engr Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3121 - Structural Analysis I
  - Humanities/Fine Arts (3) \*
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3131 - Design of Steel Structures
- or
- CIVL 4135 - Reinforced Concrete Design
- CIVL 3161 - Transportation Systems Engr
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3182 - Hydraulics and Hydrology Lab

## Academic Year Total 31 hrs

### Senior Year

- CIVL 3181 - Hydraulics and Hydrology

- Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental
  - CIVL Elective (Grp1 or 2) (3)
  - CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

## **Civil Engineering - Environmental Engineering Concentration, (B.S.C.E.)**

University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

## Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History

Waived for B.S.C.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)

### Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization
- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I
  
- CIVL 3131 - Design of Steel Structures
  
- or
  
- CIVL 4135 - Reinforced Concrete Design
  
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

### Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

#### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

#### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design

or

- CIVL 3131 - Design of Steel Structures
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering
- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project
  - CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology

## Environmental Engineering:

A student may select courses from the following concentration to satisfy civil engineering elective requirements. If the student declares a concentration, a minimum of 9 hours from that concentration area is required.

- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4191 - Civil Engr Project

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)

## Academic Year Total 35 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- CIVL 3322 - Mechanics of Materials

## Academic Year Total 35 hrs

### Junior Year

- CIVL 3137 - Civil Engr Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3121 - Structural Analysis I
  - Humanities/Fine Arts (3) \*
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3131 - Design of Steel Structures
- or
- CIVL 4135 - Reinforced Concrete Design
- CIVL 3161 - Transportation Systems Engr
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3182 - Hydraulics and Hydrology Lab

## Academic Year Total 31 hrs

### Senior Year

- CIVL 3181 - Hydraulics and Hydrology

- Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental
  - CIVL Elective (Grp1 or 2) (3)
  - CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

## **Civil Engineering - Geotechnical Engineering Concentration, (B.S.C.E.)**

University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### **Communication**

- ENGL 3603 - Engineering Communications instead of COMM 2381.

### **Mathematics**

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

### **Natural Science**

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History

Waived for B.S.C.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)



## Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization
- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I
  
- CIVL 3131 - Design of Steel Structures
  
- or
  
- CIVL 4135 - Reinforced Concrete Design
  
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

## Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design
  
- or
  
- CIVL 3131 - Design of Steel Structures
- CIVL 4136 - Inter Reinforced Concrete Dsgn

- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering
- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project
  - CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology

## Geotechnical Engineering:

A student may select courses from the following concentration to satisfy civil engineering elective requirements. If the student declares a concentration, a minimum of 9 hours from that concentration area is required.

- CIVL 4152 - Applied Soil Mechanics
- CIVL 4171 - Construction Engineering
- CIVL 4191 - Civil Engr Project

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)

Academic Year Total 35 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- CIVL 3322 - Mechanics of Materials

Academic Year Total 35 hrs

## Junior Year

- CIVL 3137 - Civil Engr Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3121 - Structural Analysis I
  - Humanities/Fine Arts (3) \*
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3131 - Design of Steel Structures

or

- CIVL 4135 - Reinforced Concrete Design
- CIVL 3161 - Transportation Systems Engr
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3182 - Hydraulics and Hydrology Lab

Academic Year Total 31 hrs

## Senior Year

- CIVL 3181 - Hydraulics and Hydrology
  - Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental
  - CIVL Elective (Grp1 or 2) (3)
  - CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

## **Civil Engineering - Structural Engineering Concentration, (B.S.C.E.)**

University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### **Communication**

- ENGL 3603 - Engineering Communications instead of COMM 2381.

### **Mathematics**

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

## Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History

Waived for B.S.C.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)

### Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization
- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I
  
- CIVL 3131 - Design of Steel Structures
  
- or
  
- CIVL 4135 - Reinforced Concrete Design
  
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

### Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

#### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

#### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design

or

- CIVL 3131 - Design of Steel Structures
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering
- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project
  - CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology

## Structural Engineering:

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design

or

- CIVL 3131 - Design of Steel Structures
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4191 - Civil Engr Project
- CIVL 4122 - Structural Analysis II

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)

## Academic Year Total 35 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- CIVL 3322 - Mechanics of Materials

## Academic Year Total 35 hrs

### Junior Year

- CIVL 3137 - Civil Engr Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3121 - Structural Analysis I
  - Humanities/Fine Arts (3) \*
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3131 - Design of Steel Structures
- or
- CIVL 4135 - Reinforced Concrete Design
- CIVL 3161 - Transportation Systems Engr
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3182 - Hydraulics and Hydrology Lab

## Academic Year Total 31 hrs

### Senior Year

- CIVL 3181 - Hydraulics and Hydrology



- Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental
  - CIVL Elective (Grp1 or 2) (3)
  - CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

## **Civil Engineering - Transportation Engineering Concentration, (B.S.C.E.)**

University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

## Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History

Waived for B.S.C.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)

### Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization
- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I
  
- CIVL 3131 - Design of Steel Structures
  
- or
  
- CIVL 4135 - Reinforced Concrete Design
  
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

### Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

#### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

#### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design

or

- CIVL 3131 - Design of Steel Structures
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering
- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project
  - CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology

## Transportation Engineering:

A student may select courses from the following concentration to satisfy civil engineering elective requirements. If the student declares a concentration, a minimum of 9 hours from that concentration area is required.

- CIVL 4162 - Traffic Engineering
- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4191 - Civil Engr Project

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)

Academic Year Total 35 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- CIVL 3322 - Mechanics of Materials

Academic Year Total 35 hrs

## Junior Year

- CIVL 3137 - Civil Engr Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3121 - Structural Analysis I
  - Humanities/Fine Arts (3) \*
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3131 - Design of Steel Structures
- or
- CIVL 4135 - Reinforced Concrete Design
- CIVL 3161 - Transportation Systems Engr
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3182 - Hydraulics and Hydrology Lab

Academic Year Total 31 hrs

## Senior Year

- CIVL 3181 - Hydraulics and Hydrology
  - Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental

- CIVL Elective (Grp1 or 2) (3)
- CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

## **Civil Engineering, (B.S.C.E.)**

### University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

#### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

#### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

#### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History

Waived for B.S.C.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab
- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)

### Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization

- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I
  
- CIVL 3131 - Design of Steel Structures
  
- or
  
- CIVL 4135 - Reinforced Concrete Design
  
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

## Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design
  
- or
  
- CIVL 3131 - Design of Steel Structures
  
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering



- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project
  - CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)

Academic Year Total 35 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- CIVL 3322 - Mechanics of Materials

Academic Year Total 35 hrs

## Junior Year

- CIVL 3137 - Civil Engr Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3121 - Structural Analysis I
  - Humanities/Fine Arts (3) \*
- CIVL 3103 - Approx/Uncertainty in Engr
  
- CIVL 3131 - Design of Steel Structures
  
- or
  
- CIVL 4135 - Reinforced Concrete Design
- CIVL 3161 - Transportation Systems Engr
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3182 - Hydraulics and Hydrology Lab

Academic Year Total 31 hrs

## Senior Year

- CIVL 3181 - Hydraulics and Hydrology
  - Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental
  - CIVL Elective (Grp1 or 2) (3)
  - CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

## Accelerated Bachelor/Masters

### Civil Engineering, Accelerated (B.S.C.E./M.S.)

#### Accelerated B.S.C.E./M.S. Program in Civil Engineering

This program allows outstanding undergraduates to earn a bachelor's degree and master's degree in Civil Engineering in as little as five years by taking graduate-level technical electives that will count toward both degree programs. Specifically, students who are selected into this program can satisfy the undergraduate requirement of nine hours of technical electives by taking 6000-level courses that will then be counted toward their graduate degree program. However, the graduate coursework will not apply to the undergraduate GPA.

Students are encouraged to begin planning to enter the Accelerated B.S.C.E./M.S. program early in their undergraduate career in consultation with their advisor in the Department of Civil Engineering. Students with a minimum GPA of 3.25 may apply for the accelerated program once they have completed 15 credit hours of 3000-level CIVL course work. In addition to an application form, students must have the recommendation of their undergraduate academic advisor, and the concurrence of the department chair and graduate coordinator in the Department of Civil Engineering. In order to remain in the program, students must maintain a GPA of at least 3.25. To continue in the program past the B.S.C.E. degree, students must apply for full admission into the Graduate School and the Civil Engineering M.S. program.

#### University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

##### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

##### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

##### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History

Waived for B.S.C.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (22 hours)

### Mathematics

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations

### Natural Science

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- BIOL 1110 - General Biology I
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- ESCI 1040 - Physical Geology
- ESCI 1103 - The Human Planet

### Collateral Courses

- ENGR 1010 - Engineering Problem Solving
- MECH 2332 - Dynamics

## The Major (67 hours)

### Completion of

- CIVL 1101 - Civil Engr Measurements
- CIVL 1112 - Civil Engr Analysis
- CIVL 2101 - Civil Engr Visualization

- CIVL 2107 - Civil Engr Computation
- CIVL 2131 - Statics
- CIVL 3103 - Approx/Uncertainty in Engr
- CIVL 3121 - Structural Analysis I
  
- CIVL 3131 - Design of Steel Structures
  
- or
  
- CIVL 4135 - Reinforced Concrete Design
  
- CIVL 3137 - Civil Engr Materials
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3161 - Transportation Systems Engr
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3181 - Hydraulics and Hydrology
- CIVL 3182 - Hydraulics and Hydrology Lab
- CIVL 3322 - Mechanics of Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 4111 - Engineering Economics
- CIVL 4195 - Professional Practice/Civil En
- CIVL 4197 - Review/Engineering Fundamental
- CIVL 4199 - Civil Engr Design

## Civil Engineering Electives

Nine hours of civil engineering electives approved by an advisor and selected from Group 1 and Group 2 electives, with no more than 3 hours from Group 1.

### Group 1 Electives

- CIVL 4122 - Structural Analysis II
- CIVL 4171 - Construction Engineering
  - and an approved upper-division civil, electrical, or mechanical engineering course

### Group 2 Electives

- CIVL 4131 - Intermediate Steel Design
- CIVL 4135 - Reinforced Concrete Design
  
- or
  
- CIVL 3131 - Design of Steel Structures
  
- CIVL 4136 - Inter Reinforced Concrete Dsgn
- CIVL 4140 - Environmental Engr Design
- CIVL 4143 - Physical/Chemical Treatment
- CIVL 4144 - Biological Wastewater Treatmnt
- CIVL 4149 - Pump Station Design
- CIVL 4152 - Applied Soil Mechanics
- CIVL 4155 - Pavement Design and Evaluation
- CIVL 4162 - Traffic Engineering

- CIVL 4163 - Airport Planning and Design
- CIVL 4164 - Route Location and Design
- CIVL 4180 - Adv Hydrology/Hydraulics
- CIVL 4190 - Water Resource Plan/Dsgn
- CIVL 4191 - Civil Engr Project
  - CIVL 4900-CIVL 4910
- CIVL 4211 - Physical Hydrology

## Typical 4-Year Civil Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- CIVL 1101 - Civil Engr Measurements
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGR 1010 - Engineering Problem Solving
- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- CIVL 1112 - Civil Engr Analysis
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
  - Physical Science (4)

Academic Year Total 35 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2101 - Civil Engr Visualization
- CIVL 2131 - Statics
- CIVL 2107 - Civil Engr Computation
  - Social/Behavioral Sciences (3) \*
  - Humanities/Fine Arts (3) \*
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- CIVL 3322 - Mechanics of Materials

Academic Year Total 35 hrs

## Junior Year

- CIVL 3137 - Civil Engr Materials
- CIVL 3325 - Mechanics of Materials Lab
- CIVL 3180 - Civil Engr Hydraulics
- CIVL 3121 - Structural Analysis I
  - Humanities/Fine Arts (3) \*
- CIVL 3103 - Approx/Uncertainty in Engr
  
- CIVL 3131 - Design of Steel Structures
  
- or
  
- CIVL 4135 - Reinforced Concrete Design
- CIVL 3161 - Transportation Systems Engr
- CIVL 3140 - Environmental Systems Engr
- CIVL 4151 - Soil Mechanics
- CIVL 3182 - Hydraulics and Hydrology Lab

Academic Year Total 31 hrs

## Senior Year

- CIVL 3181 - Hydraulics and Hydrology
  - Social/Behavioral Sciences (3) \*
- CIVL 4195 - Professional Practice/Civil En
- ENGL 3603 - Engineering Communications
- CIVL 4197 - Review/Engineering Fundamental
  - CIVL Elective (Grp1 or 2) (3)
  - CIVL Elective (Grp 2) (3)
- CIVL 4111 - Engineering Economics
- CIVL 4199 - Civil Engr Design
  - CIVL elective (Grp1 or 2) (3)

Academic Year Total 27 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

# Department of Electrical and Computer Engineering

The Department of Electrical and Computer Engineering offers Bachelors of Science degrees in Computer Engineering and Electrical Engineering. In addition, with an extra semester of study, students can receive a dual BS degree in Electrical and Computer Engineering.

The Department of Electrical and Computer Engineering offers a Master of Science degree for electrical engineers who desire advanced study. The department also offers a concentration in Electrical Engineering for students pursuing the interdepartmental Doctor of Philosophy degree in Engineering.

Details about the program and the program objectives are available on the departmental home page (<http://www.eece.memphis.edu/>).

## Computer Engineering

The educational objectives of the Computer Engineering program are consistent with the mission of the University of Memphis. The program is designed to provide students with a satisfying, robust, and quality education in Computer Engineering, leading to professional employment and/or graduate level education.

The program educational objectives are that within a few years, graduates will have

- secured employment in Electrical or Computer Engineering or related fields;
- advanced their careers as measured by promotions, salaries, career satisfaction, positions of leadership, awards, recognitions, entrepreneurial activities, development of products or process, patents, and/or publications;
- continued to learn new knowledge and to acquire new expertise as measured by post-graduate education, continuing education, and/or professional registration;
- contributed to society and the profession as measured by professional service, community service, and/or public service.

In pursuit of these objectives, students enrolled in Computer Engineering are offered a curriculum designed to provide a thorough background and understanding of the theoretical and physical principles of computer hardware and software. The intent of the program is to produce graduates who can apply concepts and techniques of mathematics and physics to a variety of analysis and design applications in Computer Engineering. In addition, graduates are prepared to communicate their ideas succinctly and clearly in both oral and written presentations.

Graduates of Computer Engineering will have demonstrated:

- a. an ability to apply knowledge of mathematics, science, and engineering
- b. an ability to design and conduct experiments, as well as to analyze and interpret data
- c. 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
- d. an ability to function on multidisciplinary teams
- e. an ability to identify, formulate, and solve engineering problems
- f. an understanding of professional and ethical responsibility
- g. an ability to communicate effectively
- h. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- i. a recognition of the need for, and an ability to engage in life-long learning
- j. a knowledge of contemporary issues
- k. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Laboratory facilities are available for a wide variety of instructional and research activities. Significant laboratory activity is required in the curriculum.

Career opportunities include positions in development and design, research, sales, management, manufacturing, and information systems. Some of the technical areas of opportunity are related to computer application, information systems and technology, mobile communications and devices, software development, and computer hardware design and development. An undergraduate student, with approval of the department chair, may select electives that satisfy the course entrance requirements for medical school.

**HONORS PROGRAM:** Students are eligible for the honors program in computer engineering if they have and maintain a cumulative GPA of 3.4 with at least junior standing and have received approval of the departmental honors committee. The honors program in Computer Engineering requires a minimum of 8 hours of honors courses in Computer Engineering and must include the completion of an honors thesis (EECE 4999). Those students who complete the program and the regular B.S.CP.E. requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Computer Engineering." Moreover, the student's



diploma and record at the University of Memphis will reflect this accomplishment. Details concerning this program and honors course offerings are available in the Department of Electrical and Computer Engineering.

**ADMISSION:** Students will be classified as pre-engineering or engineering based upon measures of preparedness for mathematics. See the Herff College of Engineering section of the catalog for more detail. A student may declare the Electrical Engineering major if the student places into MATH 1910 Calculus 1, or upon earning a grade of at least "C-" in MATH 1720, MATH 1730, or ENGR 1010.

Monitoring of a student's progress will be performed by the Herff College of Engineering academic advisor. A student will not be forwarded to the academic department for advising until the student has met the conditions to declare the Biomedical Engineering major. Exceptions to these criteria are at the discretion of the department chair.

**GRADUATION:** The minimum requirements for the degree of Bachelor of Science in Computer Engineering are given below. The student must satisfy university and college requirements. The student must obtain a minimum grade of "C" in all EECE courses and in ENGR 1010, MATH 1910, MATH 1920, MATH 2120, CHEM 1110/CHEM 1111, COMP 2150, COMP 2700, PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121, or any equivalents to these courses used to satisfy degree requirements. No transfer credit with a grade less than a minimum grade of "C" may be used to satisfy a requirement for the Bachelor of Science in Computer Engineering. Waiver of departmental graduation requirements for exceptional circumstances will be granted only upon approval of both the department chair and the Dean of the College of Engineering (or designee).

## Electrical Engineering

The educational objectives of the Electrical Engineering program are consistent with the mission of the University of Memphis. The program is designed to provide students with a satisfying, robust, and quality education in Electrical Engineering, leading to professional employment and/or graduate level education.

The program educational objectives are that within a few years, graduates will have

- secured employment in Electrical or Computer Engineering or related fields;
- advanced their careers as measured by promotions, salaries, career satisfaction, positions of leadership, awards, recognitions, entrepreneurial activities, development of products or process, patents, and/or publications;
- continued to learn new knowledge and to acquire new expertise as measured by post-graduate education, continuing education, and/or professional registration;
- contributed to society and the profession as measured by professional service, community service, and/or public service.

In pursuit of these objectives, students enrolled in Electrical Engineering are offered a curriculum designed to provide a thorough background and understanding of the theoretical and physical principles of electric and magnetic phenomena. The intent of the program is to produce graduates who can apply concepts and techniques of mathematics and physics to a variety of analysis and design applications in Electrical Engineering. In addition graduates are prepared to communicate their ideas succinctly and clearly in both oral and written presentations.

### Graduates of Electrical Engineering will have demonstrated:

- a. an ability to apply knowledge of mathematics, science, and engineering
- b. an ability to design and conduct experiments, as well as to analyze and interpret data
- c. 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
- d. an ability to function on multidisciplinary teams
- e. an ability to identify, formulate, and solve engineering problems
- f. an understanding of professional and ethical responsibility
- g. an ability to communicate effectively
- h. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- i. a recognition of the need for, and an ability to engage in life-long learning
- j. a knowledge of contemporary issues
- k. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Laboratory facilities are available for a wide variety of instructional and research activities. Significant laboratory activity is required in the curriculum.

Career opportunities include positions in development and design, research, sales, management, manufacturing, and construction. Some of the technical areas of opportunity are related to computer applications, communications systems, power generation and distribution systems, microwave and antenna systems, automatic control systems, and general instrumentation. An undergraduate student, with the approval of the department chairman, may select some electives that satisfy the course entrance requirements for medical school.

**Honors Program:** Students are eligible for the honors program in Electrical Engineering if they have and maintain a cumulative GPA of 3.4 with at least junior standing and have received approval of the departmental honors committee. The honors program in Electrical Engineering requires a minimum of 8 hours of honors courses in Electrical Engineering and must include the completion of an honors thesis (EECE 4999). Those students who complete the program and the regular B.S.E.E. requirements will be recognized at the commencement ceremony by having their degree conferred "With Honors in Electrical Engineering." Moreover, the student's diploma and record at the University of Memphis will reflect this accomplishment. Details concerning this program and honors course offerings are available in the Department of Electrical and Computer Engineering.

**ADMISSION:** Students will be classified as pre-engineering or engineering based upon measures of preparedness for mathematics. See the Herff College of Engineering section of the catalog for more detail. A student may declare the Electrical Engineering major if the student places into MATH 1910 Calculus 1, or upon earning a grade of at least "C-" in MATH 1720, MATH 1730, or ENGR 1010.

Monitoring of a student's progress will be performed by the Herff College of Engineering academic advisor. A student will not be forwarded to the academic department for advising until the student has met the conditions to declare the Biomedical Engineering major. Exceptions to these criteria are at the discretion of the department chair.

**GRADUATION:** The minimum requirements for the degree of Bachelor of Science in Electrical Engineering are given below. The student must satisfy general university and college requirements. The student must obtain a minimum grade of "C" in all EECE courses and in ENGR 1010, MATH 1910, MATH 1920, MATH 2110, MATH 2120, CHEM 1110/CHEM 1111, PHYS 2110/PHYS 2111, PHYS 2120/PHYS 2121, COMP 1900, or any equivalents to these courses used to satisfy degree requirements. No transfer credit with a grade less than "C" may be used to satisfy a requirement for the Bachelor of Science in Electrical Engineering. Waiver of departmental graduation requirements for exceptional circumstances will be granted only upon approval of both the department chair and the Dean of the College of Engineering or designee.

### Second Major in Mathematical Sciences

With minimal additional course work, Electrical and Computer Engineering majors are eligible for a Second Major in Mathematical Sciences. See the catalog for Mathematical Sciences.

## Major

### Computer Engineering, (B.S.CP.E.)

#### Minors:

Students satisfying the requirements for the Bachelor of Science in Computer Engineering may also satisfy requirements for a minor offered by a department in one of the other colleges. Requirements for a minor are specified by the appropriate college and department. Students should submit application for the minor to the appropriate department chair. Candidates for graduation who satisfy requirements for a minor should file the approved application with the intent-to-graduate cards.

### General Education (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

#### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

## Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

## History

Waived for B.S.CP.E. students who have completed one unit of history in high school.

## Social/Behavioral Sciences

- ECON 2010 - Intro to Macroeconomics must be taken in addition to 3 hours from the other specified choices.

## Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## College and Degree Requirements (24 hours)

### Mathematics (17 hours)

- MATH 1920 - Calculus II
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics
- COMP 2700 - Discrete Structures

### Natural Science (4 hours)

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

## Collateral Course (3 hours)

- ENGR 1010 - Engineering Problem Solving

## The Major (62 hours)

### Major Core (56 hours)

Completion of the following:

- EECE 1208 - Intro EECE Lab
- COMP 1900 - CS1: Intro Comp Science
- EECE 2201 - Circuit Analysis I
- EECE 2207 - Engineering Math Applications
- EECE 2222 - Digital Circuit Design
- COMP 2150 - CS2: OOP and Data Structures
- COMP 4270 - Operating Systems
- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- EECE 3204 - Signals and Systems II
- EECE 3211 - Electronics I
- EECE 3270 - Intro to Microprocessor
- EECE 4081 - Software Engineering
- EECE 4278 - Computer Organization
- EECE 4279 - Professional Development
- EECE 4280 - Electrical/Computer Engr Design
- EECE 4991 - Electrical/Computer Projects I

### Electives (6 hours)

Computer Engineering electives from:

- EECE 4222 - Digital Logic/Computer Design
- EECE 4277 - DSP Microprocessors
- EECE 4710 - Computer Architecture
- EECE 4711 - Fault Tolerant Computer Des
- EECE 4712 - Embedded Systems
- EECE 4272 - Engineering Software
- EECE 4273 - Database Engineering
- EECE 4275 - Network Programming
- EECE 4276 - Adv Network Programming
- EECE 4720 - Intro Artificial Intelligence
- EECE 4730 - Expert Systems
- EECE 4731 - Data Visualization

## Typical 4-Year Computer Engineering Sequence

## Freshman Year

### Fall Semester

- EECE 1208 - Intro EECE Lab
- ENGL 1010 - English Composition
- ENGR 1010 - Engineering Problem Solving
- MATH 1910 - Calculus I
  - Humanities/Fine Arts\*

### Spring Semester

- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- COMP 1900 - CS1: Intro Comp Science

Academic Year Total 29 hrs

## Sophomore Year

### Fall Semester

- EECE 2201 - Circuit Analysis I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures

### Spring Semester

- EECE 2207 - Engineering Math Applications
- EECE 2222 - Digital Circuit Design
- MATH 2120 - Differential Equations
- EECE 3211 - Electronics I

Academic Year Total 30 hrs

## Junior Year

### Fall Semester

- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- MATH 3242 - Intro Linear Algebra

#### **Spring Semester**

- EECE 3204 - Signals and Systems II
- MATH 4614 - Probability/Statistics
- EECE 3270 - Intro to Microprocessor
- EECE 4991 - Electrical/Computer Projects I
- ENGL 3603 - Engineering Communications

Academic Year Total 33 hrs

## Senior Year

#### **Fall Semester**

- EECE 4278 - Computer Organization
  - CpE Elective (3)
- ECON 2010 - Intro to Macroeconomics
- EECE 4081 - Software Engineering
- EECE 4279 - Professional Development

#### **Spring Semester**

- EECE 4280 - Electricl/Computer Engr Design
- COMP 4270 - Operating Systems
  - CpE elective (3)
  - Humanities/Fine Arts (3) \*
  - Social/Behavioral Sciences (3) \*

Academic Year Total 30 hrs

Total Hours: 122

Total Hours Required for Graduation: 122

\*Must satisfy University General Education Program Requirement.

## Electrical Engineering, (B.S.E.E.)

### Minors:

Students satisfying the requirements for the Bachelor of Science in Electrical Engineering may also satisfy requirements for a minor offered by a department in one of the other colleges. Requirements for minors are specified by the appropriate college and department. Students should submit application for the minor to the appropriate department chair. Candidates for graduation who satisfy requirements for a minor should file the approved application with the intent-to-graduate cards.

### University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

#### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

#### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

#### Social/Behavioral Sciences

- ECON 2010 - Intro to Macroeconomics must be taken in addition to 3 hours from the other specified choices.

#### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History

Waived for B.S.E.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (24 hours)

### Mathematics (17 hours)

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics

### Natural Science (4 hours)

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### Collateral Course (3 hours)

- ENGR 1010 - Engineering Problem Solving

## The Major (62 hours)

### Major Core (50 hours)

Completion of 52 hours including:

- EECE 1208 - Intro EECE Lab
  - EECE 1207 - Electrical Engr Computations
- or
- COMP 1900 - CS1: Intro Comp Science
  - EECE 2201 - Circuit Analysis I
  - EECE 2207 - Engineering Math Applications
  - EECE 2222 - Digital Circuit Design
  - EECE 3201 - Circuit Analysis II



- EECE 3203 - Signals and Systems I
- EECE 3204 - Signals and Systems II
- EECE 3211 - Electronics I
  
- EECE 3240 - Electromagnetic Field Theory
  
- or
  
- EECE 4213 - Antenna Theory/Design
  
- or
  
- EECE 4215 - Applied Electromagnetic Fields
  
- EECE 3270 - Intro to Microprocessor
- EECE 4991 - Electrical/Computer Projects I
- EECE 4201 - Energy Conversion
- EECE 4279 - Professional Development
- EECE 4280 - Electrical/Computer Engr Design

## Electives (12 hours)

Three (3) hours of Electrical Engineering electives are chosen from the list below. The other 6 hours are chosen from upper division EECE courses.

## Electrical Engineering Electives (3 hours) -Breadth and Depth

3 hours of Electrical Engineering electives must be chosen from:

- EECE 3212 - Electronics II
- EECE 4230 - Data Communication System
- EECE 4231 - Communication Theory
- EECE 4235 - Probabilistic System Analysis
- EECE 4251 - Control System Engr
- EECE 4252 - Digital Control Systems

## Technical Electives (3 hours)

These electives may be chosen from upper-division courses in engineering, mathematics, physics, or computer science. Approval of department chair is required for all technical electives.

## Note

Students may use elective hours to broaden their base of knowledge or for one of the concentrations below. A minimum of 9 semester hours is required for a concentration. EECE electives and technical may be used to complete a concentration.

Computer Engineering

Electrophysics

Systems and Signals

## Additional Note

With approval, Project II, EECE 4992 can be taken for 3 semester hours credit in any of the areas of concentration.

## Typical 4-Year Electrical Engineering Sequence

### Freshman Year

#### Fall Semester

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- EECE 1208 - Intro EECE Lab
- ENGR 1010 - Engineering Problem Solving
  - Humanities/Fine Arts (3) \*

#### Spring Semester

- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- COMP 1900 - CS1: Intro Comp Science
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I

Academic Year Total 29 hrs

### Sophomore Year

#### Fall Semester

- EECE 2201 - Circuit Analysis I
- EECE 2222 - Digital Circuit Design
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

#### Spring Semester

- EECE 2207 - Engineering Math Applications
- EECE 3211 - Electronics I
- MATH 2120 - Differential Equations
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American

## Academic Year Total 29 hrs

### Junior Year

#### Fall Semester

- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- MATH 3242 - Intro Linear Algebra
- ENGL 3603 - Engineering Communications
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

#### Spring Semester

- EECE 3204 - Signals and Systems II
- EECE 3270 - Intro to Microprocessor
- EECE 4991 - Electrical/Computer Projects I
- MATH 4614 - Probability/Statistics
  
- EECE 3240 - Electromagnetic Field Theory
  
- or
  
- EECE 4213 - Antenna Theory/Design
  
- or
  
- EECE 4215 - Applied Electromagnetic Fields

## Academic Year Total 33 hrs

### Senior Year

#### Fall Semester

- EECE 4201 - Energy Conversion
  - EECE elective (3)
  - EECE elective (3)
- EECE 4279 - Professional Development
  - Humanities/Fine Arts (3) \*

#### Spring Semester

- EECE 4280 - Electrical/Computer Engr Design
  - EECE elective (3)
- ECON 2010 - Intro to Macroeconomics
  - Social/Behavioral Sciences (3) \*
  - Technical Elective (3)

Academic Year Total 31 hrs

Total Hours: 122

Total Hours Required for Graduation: 122

*\*Must satisfy University General Education Program Requirement*

## **Accelerated Bachelor/Masters**

### **Computer Engineering, (Accelerated B.S.CP.E./M.S.)**

## **Accelerated B.S.CP.E./M.S. Program in Computer Engineering**

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Computer Engineering during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S.CP.E./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Electrical and Computer Engineering. Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study that will allow them to complete their B.S.CP.E. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Electrical and Computer Engineering department. Each applicant will complete an interview with the graduate academic coordinator in computer engineering.

Students must also apply to the Graduate School for the accelerated B.S.CP.E./M.S. program, which allows them to take graduate courses in computer engineering. To continue in the program past the B.S.CP.E, students must apply for full admission into the Graduate School and into the Electrical and Computer Engineering department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

### **Minors:**

Students satisfying the requirements for the Bachelor of Science in Computer Engineering may also satisfy requirements for a minor offered by a department in one of the other colleges. Requirements for a minor are specified by the appropriate college and department. Students should submit application for the minor to the appropriate department chair. Candidates for graduation who satisfy requirements for a minor should file the approved application with the intent-to-graduate cards.

### **General Education (36 hours)**

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

## Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

## Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

## History

Waived for B.S.CP.E. students who have completed one unit of history in high school.

## Social/Behavioral Sciences

- ECON 2010 - Intro to Macroeconomics must be taken in addition to 3 hours from the other specified choices.

## Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## College and Degree Requirements (24 hours)

### Mathematics (17 hours)

- MATH 1920 - Calculus II
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics
- COMP 2700 - Discrete Structures

## Natural Science (4 hours)

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

## Collateral Course (3 hours)

- ENGR 1010 - Engineering Problem Solving

## The Major (62 hours)

### Major Core (56 hours)

Completion of the following:

- EECE 1208 - Intro EECE Lab
- COMP 1900 - CS1: Intro Comp Science
- EECE 2201 - Circuit Analysis I
- EECE 2207 - Engineering Math Applications
- EECE 2222 - Digital Circuit Design
- COMP 2150 - CS2: OOP and Data Structures
- COMP 4270 - Operating Systems
- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- EECE 3204 - Signals and Systems II
- EECE 3211 - Electronics I
- EECE 3270 - Intro to Microprocessor
- EECE 4081 - Software Engineering
- EECE 4278 - Computer Organization
- EECE 4279 - Professional Development
- EECE 4280 - Electrical/Computer Engr Design
- EECE 4991 - Electrical/Computer Projects I

### Electives (6 hours)

Computer Engineering electives from:

- EECE 4222 - Digital Logic/Computer Design
- EECE 4277 - DSP Microprocessors
- EECE 4710 - Computer Architecture
- EECE 4711 - Fault Tolerant Computer Des
- EECE 4712 - Embedded Systems
- EECE 4272 - Engineering Software
- EECE 4273 - Database Engineering
- EECE 4275 - Network Programming
- EECE 4276 - Adv Network Programming
- EECE 4720 - Intro Artificial Intelligence

- EECE 4730 - Expert Systems
- EECE 4731 - Data Visualization

## Typical 4-Year Computer Engineering Sequence

### Freshman Year

#### Fall Semester

- EECE 1208 - Intro EECE Lab
- ENGL 1010 - English Composition
- ENGR 1010 - Engineering Problem Solving
- MATH 1910 - Calculus I
  - Humanities/Fine Arts\*

#### Spring Semester

- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- COMP 1900 - CS1: Intro Comp Science

Academic Year Total 29 hrs

### Sophomore Year

#### Fall Semester

- EECE 2201 - Circuit Analysis I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- COMP 2150 - CS2: OOP and Data Structures
- COMP 2700 - Discrete Structures

#### Spring Semester

- EECE 2207 - Engineering Math Applications
- EECE 2222 - Digital Circuit Design
- MATH 2120 - Differential Equations
- EECE 3211 - Electronics I

Academic Year Total 30 hrs

### Junior Year

**Fall Semester**

- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- MATH 3242 - Intro Linear Algebra

**Spring Semester**

- EECE 3204 - Signals and Systems II
- MATH 4614 - Probability/Statistics
- EECE 3270 - Intro to Microprocessor
- EECE 4991 - Electrical/Computer Projects I
- ENGL 3603 - Engineering Communications

Academic Year Total 33 hrs

**Senior Year****Fall Semester**

- EECE 4278 - Computer Organization
  - CpE Elective (3)
- ECON 2010 - Intro to Macroeconomics
- EECE 4081 - Software Engineering
- EECE 4279 - Professional Development

**Spring Semester**

- EECE 4280 - Electrical/Computer Engr Design
- COMP 4270 - Operating Systems
  - CpE elective (3)
  - Humanities/Fine Arts (3) \*
  - Social/Behavioral Sciences (3) \*

Academic Year Total 30 hrs

Total Hours: 121

Total Hours Required for Graduation: 121

\*Must satisfy University General Education Program Requirement



## Electrical Engineering, (Accelerated B.S.E.E./M.S.)

### Accelerated B.S.E.E./M.S. Program in Electrical Engineering

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Electrical Engineering during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S.E.E./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Electrical and Computer Engineering. Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study that will allow them to complete their B.S.E.E. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Electrical and Computer Engineering department. Each applicant will complete an interview with the graduate academic coordinator in electrical engineering.

Students must also apply to the Graduate School for the accelerated B.S.E.E./M.S. program, which allows them to take graduate courses in electrical engineering. To continue in the program past the B.S.E.E., students must apply for full admission into the Graduate School and into the Electrical and Computer Engineering department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

#### Minors:

Students satisfying the requirements for the Bachelor of Science in Electrical Engineering may also satisfy requirements for a minor offered by a department in one of the other colleges. Requirements for minors are specified by the appropriate college and department. Students should submit application for the minor to the appropriate department chair. Candidates for graduation who satisfy requirements for a minor should file the approved application with the intent-to-graduate cards.

### University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

#### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

#### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

## Social/Behavioral Sciences

- ECON 2010 - Intro to Macroeconomics must be taken in addition to 3 hours from the other specified choices.

## Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

## History

Waived for B.S.E.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (24 hours)

### Mathematics (17 hours)

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
- MATH 2120 - Differential Equations
- MATH 3242 - Intro Linear Algebra
- MATH 4614 - Probability/Statistics

### Natural Science (4 hours)

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### Collateral Course (3 hours)

- ENGR 1010 - Engineering Problem Solving

## The Major (62 hours)

### Major Core (50 hours)

Completion of 52 hours including:

- EECE 1208 - Intro EECE Lab
  - EECE 1207 - Electrical Engr Computations
- or
- COMP 1900 - CS1: Intro Comp Science
- EECE 2201 - Circuit Analysis I
  - EECE 2207 - Engineering Math Applications
  - EECE 2222 - Digital Circuit Design
  - EECE 3201 - Circuit Analysis II
  - EECE 3203 - Signals and Systems I
  - EECE 3204 - Signals and Systems II
  - EECE 3211 - Electronics I
- EECE 3240 - Electromagnetic Field Theory
- or
- EECE 4213 - Antenna Theory/Design
- or
- EECE 4215 - Applied Electromagnetic Fields
  - EECE 3270 - Intro to Microprocessor
  - EECE 4991 - Electrical/Computer Projects I
  - EECE 4201 - Energy Conversion
  - EECE 4279 - Professional Development
  - EECE 4280 - Electrical/Computer Engr Design

### Electives (12 hours)

Three (3) hours of Electrical Engineering electives are chosen from the list below. The other 6 hours are chosen from upper division EECE courses.

#### Electrical Engineering Electives (3 hours) -Breadth and Depth

3 hours of Electrical Engineering electives must be chosen from:

- EECE 3212 - Electronics II
- EECE 4230 - Data Communication System
- EECE 4231 - Communication Theory
- EECE 4235 - Probabilistic System Analysis
- EECE 4251 - Control System Engr
- EECE 4252 - Digital Control Systems

## Technical Electives (3 hours)

These electives may be chosen from upper-division courses in engineering, mathematics, physics, or computer science. Approval of department chair is required for all technical electives.

### Note

Students may use elective hours to broaden their base of knowledge or for one of the concentrations below. A minimum of 9 semester hours is required for a concentration. EECE electives and technical may be used to complete a concentration.

Computer Engineering

Electrophysics

Systems and Signals

### Additional Note

With approval, Project II, EECE 4992 can be taken for 3 semester hours credit in any of the areas of concentration.

## Typical 4-Year Electrical Engineering Sequence

### Freshman Year

#### Fall Semester

- ENGL 1010 - English Composition
- MATH 1910 - Calculus I
- EECE 1208 - Intro EECE Lab
- ENGR 1010 - Engineering Problem Solving
  - Humanities/Fine Arts (3) \*

#### Spring Semester

- ENGL 1020 - English Comp/Analysis
- MATH 1920 - Calculus II
- COMP 1900 - CS1: Intro Comp Science
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I

## Academic Year Total 29 hrs

### Sophomore Year

#### Fall Semester

- EECE 2201 - Circuit Analysis I
- EECE 2222 - Digital Circuit Design
- MATH 2110 - Calculus III
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

#### Spring Semester

- EECE 2207 - Engineering Math Applications
- EECE 3211 - Electronics I
- MATH 2120 - Differential Equations
- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American

## Academic Year Total 29 hrs

### Junior Year

#### Fall Semester

- EECE 3201 - Circuit Analysis II
- EECE 3203 - Signals and Systems I
- MATH 3242 - Intro Linear Algebra
- ENGL 3603 - Engineering Communications
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

#### Spring Semester

- EECE 3204 - Signals and Systems II
- EECE 3270 - Intro to Microprocessor
- EECE 4991 - Electrical/Computer Projects I
- MATH 4614 - Probability/Statistics

- EECE 3240 - Electromagnetic Field Theory

or

- EECE 4213 - Antenna Theory/Design

or

- EECE 4215 - Applied Electromagnetic Fields

Academic Year Total 33 hrs

## Senior Year

### Fall Semester

- EECE 4201 - Energy Conversion
  - EECE elective (3)
  - EECE elective (3)
- EECE 4279 - Professional Development
  - Humanities/Fine Arts (3) \*

### Spring Semester

- EECE 4280 - Electrical/Computer Engr Design
  - EECE elective (3)
- ECON 2010 - Intro to Macroeconomics
  - Social/Behavioral Sciences (3) \*
  - Technical Elective (3)

Academic Year Total 31 hrs

Total Hours: 122

Total Hours Required for Graduation: 122

*\*Must satisfy University General Education Program Requirement*

## Department of Engineering Technology

Engineering Technology is the profession in which knowledge of mathematics and natural science, gained by higher education, experience, and practice, is devoted primarily to the implementation and extension of existing technology for the benefit of humanity. Engineering Technology education focuses primarily on the applied aspects of science and that portion of the technological spectrum closest to product improvement, industrial practices, and engineering operation functions.

The educational objectives of the Engineering Technology program are to produce graduates who are prepared to:

1. Attain gainful employment in a related technical field providing personal and professional growth;
2. Pursue professional development such as additional formal education, certifications and workshops;
3. Attain increasing levels of responsibility and leadership in their own chosen field;
4. Apply a depth of knowledge and ability to manage, design, develop, analyze, and/or implement technical projects, demonstrating a quality of performance necessary to succeed in engineering technology careers.

Graduates are referred to as Engineering Technologists and work as members of the engineering team focusing primarily on the implementation of new technologies. Students will select two fields of study providing depth in subjects of interest to them. Technical electives will provide breadth of study that supports their general knowledge base. Within the core are courses that prepare students to manage people and projects as they grow in their career. Graduates of this program are employed in the areas of quality assurance,

product/software support, applied design and development, manufacturing support, plant management, computerized process control, systems planning, process planning, supervision and technical sales.

**ADMISSION:** The student will be classified as pre-engineering technology or engineering technology based upon measures of preparedness for mathematics. A student may declare Pre-Engineering Technology with a Math ACT subscore greater than or equal to 18 or ALEKS math placement score greater than or equal to 30, or with a C- in MATH 1100. A student may declare Engineering Technology with a Math ACT subscore greater than or equal to 20 or ALEKS math placement score greater than or equal to 46, or with a C- in ENGR 1009 or COMBO MATH 1710.

Transfer students will be coded as Pre-Engineering Technology for a minimum of one semester following admission to the University of Memphis. They may declare the Engineering Technology major upon completion of the Admission requirements.

A student may not register for upper-division courses in TECH (formerly CETH, EETH, or METH) at or above the 3000 level without being declared as an Engineering Technology major. Exceptions to the Admission criteria are at the discretion of the Department Chair.

**GRADUATION:** To qualify for the degree of Bachelor of Science in Engineering Technology, the student must satisfy University and College requirements, and obtain a 2.0 grade point average on all work completed, and obtain a minimum grade of "C" in all engineering technology and mathematics courses used to satisfy degree requirements. A grade of "C" or better is also required in ENGL 3603.

## Major

### Engineering Technology, (B.S.E.T.)

#### University General Education Program (42 hours)

See Graduation from the University link for University General Education Program requirements. Note the following are specified by the department for this program:

#### Mathematics

- MATH 1910 - Calculus I

#### Natural Science

- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II

## College and Degree Requirements (52 hours)

### Engineering Technology Core

- ENGL 3603 - Engineering Communications
- CHEM 1010 - Chemistry of Materials
- CHEM 1011 - Chemistry of Materials Lab
- MATH 1730 - Pre-Calculus

Or

- ENGR 1009 - Prep Math for Engineering
- TECH 1010 - Computer Applications in Tech
- TECH 1211 - Computer Programming
- TECH 1411 - Introduction to Technology
- TECH 1521 - Graphics/Descriptive Geometry
- TECH 1711 - Manufacturing Process I
- TECH 1811 - Electronic Circuit Technology
- TECH 2821 - Solid State Technology
- TECH 2822 - Circuit Analysis
- TECH 3044 - Analysis for Engineering Tech
- TECH 3440 - Project Plan/Cost Evaluation
- TECH 4381 - Principles of Supervision
- TECH 4401 - Science/Technology/Society
- TECH 4462 - Quality Improvement
- TECH 4943 - Senior Project Plan Seminar
- TECH 4945 - Senior Project

### The Major (31-33 hours)

Completion of 31-33 hours of technical electives that include a minimum of two (2) of the following fields of study selected in consultation with an academic advisor:

### Automation & Control Systems

- TECH 2831 - Advanced Solid State Tech
- TECH 3821 - Industrial Electronics
- TECH 3822 - Programmable Logic Control
- TECH 4474 - Automation and Robotics
- TECH 3841 - Electrical Power/Motor Control

or

- TECH 4823 - Adv Programmable Logic Control



## Electronic Communication Systems

- TECH 2831 - Advanced Solid State Tech
- TECH 3811 - Electronic Communication
- TECH 3812 - Adv Electronic Comm Technology
- TECH 4821 - Microwave Technology

## Mechanical Systems Design

- TECH 3401 - Strength of Materials
- TECH 3421 - Manufacturing Process II
- TECH 3573 - Dynamics/Design/Automation
- TECH 4472 - Computer Aided Design
- TECH 4571 - Tool Design

## Microprocessor Systems

- TECH 2831 - Advanced Solid State Tech
- TECH 3232 - Digital Technology
- TECH 3233 - Microprocessor Technology
- TECH 4234 - Microproc Interface Technology

## Operations Strategy & Lean Principles

- TECH 4460 - Work Design/Improvement
- TECH 4464 - Production Control Systems
- TECH 4466 - Facility Design

## Product Realization

- TECH 3401 - Strength of Materials
- TECH 3421 - Manufacturing Process II
- TECH 4472 - Computer Aided Design
- TECH 4474 - Automation and Robotics
- TECH 4476 - Computer Aided Manufacturing

## Software Design

- TECH 2251 - Adv Programming Technology
- TECH 2261 - Data Structures
- TECH 4262 - Modern Programming

- TECH 4263 - Server Application Technology

## System/Network Administration

- TECH 3232 - Digital Technology
- TECH 3241 - Internet Technology
- TECH 4281 - Computer Network Technology
- TECH 4272 - Operating Systems

## Note

The core requirements satisfy prerequisites for these fields of study. Observe prerequisites when enrolling in courses within a particular field of study. NOTE: Substitutions must be approved by the Undergraduate Program Coordinator.

## Typical 4-Year Engineering Technology Sequence

### Freshman Year

- ENGL 1010 - English Composition
- MATH 1730 - Pre-Calculus

or

- ENGR 1009 - Prep Math for Engineering
- TECH 1411 - Introduction to Technology
- TECH 1711 - Manufacturing Process I
- TECH 1010 - Computer Applications in Tech
- ENGL 1020 - English Comp/Analysis
- MATH 1910 - Calculus I
- TECH 1211 - Computer Programming
- TECH 1521 - Graphics/Descriptive Geometry
- TECH 1811 - Electronic Circuit Technology

### Semester Totals 30 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American
- PHYS 2010 - General Physics I/Trig

- PHYS 2011 - General Physics Lab I
  - History (3) \*
- TECH 2821 - Solid State Technology
- TECH 2822 - Circuit Analysis
- COMM 2381 - Oral Communication
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II
- CHEM 1010 - Chemistry of Materials
- CHEM 1011 - Chemistry of Materials Lab
- TECH 3044 - Analysis for Engineering Tech
  - Technical elective (3)

Semester Totals 35 hrs

## Junior Year

- Humanities (3) \*
- History (3) \*
- ENGL 3603 - Engineering Communications
  - Technical Elective (3)
  - Technical Elective (3)
  - Social/Behavioral Sciences (3) \*
  - Technical elective (3)
  - Technical elective (3)
- TECH 4462 - Quality Improvement
- TECH 3440 - Project Plan/Cost Evaluation
- TECH 4381 - Principles of Supervision

Semester Totals 33 hrs

## Senior Year

- Social/Behavioral Sciences (3)
- Technical Elective (3-4)
- Technical elective
- Technical Elective (3)
- TECH 4401 - Science/Technology/Society
- TECH 4943 - Senior Project Plan Seminar
  - Humanities (3) \*
  - Technical elective (3-4)
  - Technical elective (3)
  - Technical elective (3)
- TECH 4945 - Senior Project

Semester Totals 39-31 hrs

Total Hours: 125-128

Total Hours Required for Graduation: 125-128

*\*Must satisfy University General Education Program Requirements*

## **Minor**

### **Engineering Technology Minor**

#### **Requirements**

A student must complete 18 hours of Engineering Technology coursework (observing prerequisites), 12 of which must be upper-division, selected in consultation with a departmental advisor. It is understood that some prerequisites may be satisfied by coursework from other departments and programs.

#### **Accelerated Bachelor/Masters**

### **Engineering Technology, (Accelerated B.S.E.T./M.S.)**

#### **University General Education Program (42 hours)**

See Graduation from the University link for University General Education Program requirements. Note the following are specified by the department for this program:

#### **Mathematics**

- MATH 1910 - Calculus I

## Natural Science

- PHYS 2010 - General Physics I/Trig
- PHYS 2011 - General Physics Lab I
- PHYS 2020 - General Physics II/Trig
- PHYS 2021 - Gen Physics Lab II

## College and Degree Requirements (52 hours)

### Engineering Technology Core

- ENGL 3603 - Engineering Communications
- CHEM 1010 - Chemistry of Materials
- CHEM 1011 - Chemistry of Materials Lab
- MATH 1730 - Pre-Calculus

Or

- ENGR 1009 - Prep Math for Engineering
- TECH 1010 - Computer Applications in Tech
- TECH 1211 - Computer Programming
- TECH 1411 - Introduction to Technology
- TECH 1521 - Graphics/Descriptive Geometry
- TECH 1711 - Manufacturing Process I
- TECH 1811 - Electronic Circuit Technology
- TECH 2821 - Solid State Technology
- TECH 2822 - Circuit Analysis
- TECH 3044 - Analysis for Engineering Tech
- TECH 3440 - Project Plan/Cost Evaluation
- TECH 4381 - Principles of Supervision
- TECH 4401 - Science/Technology/Society
- TECH 4462 - Quality Improvement
- TECH 4943 - Senior Project Plan Seminar
- TECH 4945 - Senior Project

## The Major (31-33 hours)

Completion of 31-33 hours of technical electives that include a minimum of two (2) of the following fields of study selected in consultation with an academic advisor:

### Automation & Control Systems

- TECH 2831 - Advanced Solid State Tech
- TECH 3821 - Industrial Electronics
- TECH 3822 - Programmable Logic Control
- TECH 4474 - Automation and Robotics

- TECH 3841 - Electrical Power/Motor Control
- or
- TECH 4823 - Adv Programmable Logic Control

## Electronic Communication Systems

- TECH 2831 - Advanced Solid State Tech
- TECH 3811 - Electronic Communication
- TECH 3812 - Adv Electronic Comm Technology
- TECH 4821 - Microwave Technology

## Mechanical Systems Design

- TECH 3401 - Strength of Materials
- TECH 3421 - Manufacturing Process II
- TECH 3573 - Dynamics/Design/Automation
- TECH 4472 - Computer Aided Design
- TECH 4571 - Tool Design

## Microprocessor Systems

- TECH 2831 - Advanced Solid State Tech
- TECH 3232 - Digital Technology
- TECH 3233 - Microprocessor Technology
- TECH 4234 - Microproc Interface Technology

## Operations Strategy & Lean Principles

- TECH 4460 - Work Design/Improvement
- TECH 4464 - Production Control Systems
- TECH 4466 - Facility Design

## Product Realization

- TECH 3401 - Strength of Materials
- TECH 3421 - Manufacturing Process II
- TECH 4472 - Computer Aided Design
- TECH 4474 - Automation and Robotics
- TECH 4476 - Computer Aided Manufacturing

## Software Design

- TECH 2251 - Adv Programming Technology
- TECH 2261 - Data Structures
- TECH 4262 - Modern Programming
- TECH 4263 - Server Application Technology

## System/Network Administration

- TECH 3232 - Digital Technology
- TECH 3241 - Internet Technology
- TECH 4281 - Computer Network Technology
- TECH 4272 - Operating Systems

## Note

The core requirements satisfy prerequisites for these fields of study. Observe prerequisites when enrolling in courses within a particular field of study. NOTE: Substitutions must be approved by the Undergraduate Program Coordinator.

## Accelerated B.S.E.T./M.S. Program in Engineering Technology

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Engineering Technology during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S.E.T./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Engineering Technology.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.S.E.T. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Engineering Technology department. Each applicant will complete an interview with the graduate academic coordinator in engineering technology.

Students must also apply to the Graduate School for the accelerated B.S.E.T./M.S. program, which allows them to take graduate courses in engineering technology. To continue in the program past the B.S.E.t., students must apply for full admission into the Graduate School and into the Engineering Technology department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## Typical 4-Year Engineering Technology Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - MATH 1730 - Pre-Calculus
- or
- ENGR 1009 - Prep Math for Engineering
  - TECH 1411 - Introduction to Technology
  - TECH 1711 - Manufacturing Process I
  - TECH 1010 - Computer Applications in Tech
  - ENGL 1020 - English Comp/Analysis
  - MATH 1910 - Calculus I
  - TECH 1211 - Computer Programming
  - TECH 1521 - Graphics/Descriptive Geometry
  - TECH 1811 - Electronic Circuit Technology

Semester Totals 30 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage
- or
- ENGL 2202 - Lit Heritage: African-American
  - PHYS 2010 - General Physics I/Trig
  - PHYS 2011 - General Physics Lab I
    - History (3) \*
  - TECH 2821 - Solid State Technology
  - TECH 2822 - Circuit Analysis
  - COMM 2381 - Oral Communication
  - PHYS 2020 - General Physics II/Trig
  - PHYS 2021 - Gen Physics Lab II
  - CHEM 1010 - Chemistry of Materials
  - CHEM 1011 - Chemistry of Materials Lab
  - TECH 3044 - Analysis for Engineering Tech
    - Technical elective (3)

Semester Totals 35 hrs

### Junior Year

- Humanities (3) \*
- History (3) \*



- ENGL 3603 - Engineering Communications
  - Technical Elective (3)
  - Technical Elective (3)
  - Social/Behavioral Sciences (3) \*
  - Technical elective (3)
  - Technical elective (3)
- TECH 4462 - Quality Improvement
- TECH 3440 - Project Plan/Cost Evaluation
- TECH 4381 - Principles of Supervision

Semester Totals 33 hrs

## Senior Year

- Social/Behavioral Sciences (3)
- Technical Elective (3-4)
- Technical elective
- Technical Elective (3)
- TECH 4401 - Science/Technology/Society
- TECH 4943 - Senior Project Plan Seminar
  - Humanities (3) \*
  - Technical elective (3-4)
  - Technical elective (3)
  - Technical elective (3)
- TECH 4945 - Senior Project

Semester Totals 39-31 hrs

Total Hours: 125-128

Total Hours Required for Graduation: 125-128

*\*Must satisfy University General Education Program Requirements*

## Department of Mechanical Engineering

Mechanical Engineering is a broad field that contains many areas. Students are offered a wide variety of topics that touch on as many of these areas as possible in a balanced four-year program. The curriculum is designed to prepare graduates for professional practice, and to provide a foundation for lifelong learning as well as professional growth.

The course of study begins with a strong foundation in mathematics, physical sciences, and engineering sciences, and culminates in a series of synthesis and design courses. These require the student to apply material learned in foundation courses to practical design problems in various areas. Traditional classroom instruction is supplemented with laboratory experiences in four areas. The laboratory courses are designed to develop the student's knowledge base with a hands-on learning experience.

The program educational objectives express expectations of the program graduates' abilities within the first few years after successfully completing this comprehensive curriculum. (1) Graduates are employed as mechanical engineers or in other professional fields that would benefit from a Mechanical Engineering education. (2) Graduates pursue advanced studies or engage in life-long learning activities.

The diversity encountered in the profession requires the successful Mechanical Engineer to have technical and non-technical skills. Courses in the humanities and social sciences enhance non-technical skills, and explore the engineer's relationship with, and responsibility to, society. Students learn that as professionals, they identify with other engineers, and that the welfare of the public is of prime concern. These non-technical courses allow the student to interact and communicate effectively with a wide variety of individuals. While students are strongly encouraged to take the Fundamentals of Engineering Examination, prior to graduation, students are required to take and pass a Simulated Fundamentals of Engineering examination, which is administered as a component of MECH 4300.

**ADMISSION:** Admission to the university will allow a student to be in a pre-mechanical engineering major. Movement into the major requires: 1) a cumulative GPA of 2.25 for all university level courses completed, 2) a grade of at least a "C-" for each of the following 5 courses (or equivalents), and 3) a cumulative GPA of at least 2.50 for these 6 courses.

- MATH 1910 - Calculus I
- CHEM 1110 - General Chemistry I
- PHYS 2110 - Sci/Engr Phys I/Calc
- MECH 1310 - Intro/Mechanical Engineering
- MECH 1312 - Mech Engr Computing I
- MECH 1314 - Mech Engr Computing II

Pre-mechanical engineering majors may not register for MECH courses at or above the 3000-level. Exceptions to these criteria are at the discretion of the department chair or the undergraduate program coordinator.

**Graduation:** To earn a Bachelor of Science in Mechanical Engineering degree, the student must satisfy University and College requirements, and obtain a minimum 2.0 grade point average on all work completed, and obtain a minimum grade of "C-" in all engineering, mathematics, physics, and chemistry courses used to satisfy degree requirements.

**Honors Program:** The Honors in Mechanical Engineering Program provides an exceptional educational opportunity for highly motivated students to develop their talents, interests, and abilities within a curriculum designed to encourage independence and creativity.

Admission to the Honors Program: Incoming freshmen who score a minimum of 26 on the ACT, or its equivalent, are invited to participate. Transfer students or students previously enrolled at the University of Memphis are eligible for the program if they have an overall grade point average of 3.00, and a grade point average of 3.25 for course work within the Herff College of Engineering. The departmental honors committee admits eligible students to the program upon approval of the Application for Admission to the Mechanical Engineering Honors Program. Students with academic records that fall short of these requirements may apply for provisional acceptance.

Retention in the Honors Program: Participants must maintain a minimum overall grade point average of 3.00 and a minimum grade point average of 3.25 for course work within the college to continue in the program. The departmental honors committee may grant participants failing to meet this requirement a one semester probationary period before they are dismissed from the program.

Requirements:

1. To qualify for the designation "With Honors in Mechanical Engineering", a student must successfully complete a minimum of 18 semester hours from the following: MECH 4395, MECH 4396, and 12 hours of mechanical engineering honors courses.
2. To qualify for the designations "With Honors in Mechanical Engineering" and "University Honors with Thesis", a student must successfully complete a minimum of 25 semester hours from the following: MECH 4395 and MECH 4396, 9 hours of mechanical engineering honors courses, one hour of UNHP 1100, and 9 hours of general education honors courses. To enroll in mechanical engineering honors sections, a student must request departmental approval. A minimum grade of "B" (3.0) is required in each honors course for it to count toward fulfilling the honors course requirement. Regular credit for the course will be earned if the grade is lower than a "B". A participant must select a major advisor by the beginning of the second semester junior year and enroll in MECH 4395 - Honors Thesis Proposal. Successful completion of this course requires acceptance of a thesis proposal by the departmental honors committee. During the second semester of the senior year, a participant must enroll in MECH 4396 - Honors Thesis. Successful completion of this course requires acceptance of a thesis by the departmental honors committee.

**Designation of "With Honors in Mechanical Engineering":** Students who successfully complete the prescribed course work will have earned the designation of "With Honors in Mechanical Engineering." This designation will be recognized at the commencement ceremony and it will appear on the transcript and diploma.

## Major

### Mechanical Engineering, (B.S.M.E.)

#### University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

#### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

#### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

#### Social/Behavioral Sciences

- ECON 2010 - Intro to Macroeconomics must be taken in addition to 3 hours from the other specified choices.

#### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

#### History

Waived for B.S.E.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (26 hours)

### Mathematics (11 hours)

- MATH 1920 - Calculus II
- MATH 2110 - Calculus III
  - MATH 3120

### Natural Science (8 hours)

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

### One of the Following:

- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab

### Collateral Courses (7 hours)

- CIVL 2131 - Statics

### One of the Following:

- EECE 2201 - Circuit Analysis I
- EECE 2203 - Circuit Analysis Lab

or

- EECE 2281 - Instrumentation Lab
- EECE 2283 - Electrical Engr/Instrumentation

## The Major (66 hours)

### Completion of

- MECH 1310 - Intro/Mechanical Engineering
- MECH 1312 - Mech Engr Computing I
- MECH 1314 - Mech Engr Computing II
- MECH 2316 - Engineering Design Comm I
- MECH 2332 - Dynamics
- MECH 3311 - Engineering Thermodynamics I
- MECH 3312 - Engineering Thermodynamics II
- MECH 3316 - Engineering Design Comm II
- MECH 3320 - Engineering Materials
- MECH 3321 - Mechanics of Machines
- MECH 3322 - Mechanics of Materials
- MECH 3323 - Machine Design
- MECH 3325 - Materials Laboratory
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 3341 - Numerical/Statistical Methods
- MECH 3351 - Heat Transfer I
- MECH 3355 - Thermo/Heat Transfer Lab
- MECH 4300 - Prep/Professional Practice
- MECH 4314 - Senior Design I
- MECH 4319 - Engineering Econ/Project Mgmt
- MECH 4322 - System Dynamics
- MECH 4323 - Senior Design II
- MECH 4335 - System Dynamics Lab

### Electives (9 hours)

Nine (9) hours of electives approved by the student's academic advisor.

## Typical 4-Year Mechanical Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
- MECH 1310 - Intro/Mechanical Engineering
- MECH 1312 - Mech Engr Computing I
- ENGL 1020 - English Comp/Analysis
  - Natural Science (4) \*
- MATH 1920 - Calculus II
- MECH 1314 - Mech Engr Computing II
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I

## Semester Totals 32 hrs

### Sophomore Year

- MATH 2110 - Calculus III
  - PHYS 2120 - Sci/Engr Phys II/Calc (3-4)
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II
- CIVL 2131 - Statics
- MECH 2318 - Engr Design Communication
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- MECH 3322 - Mechanics of Materials
- EECE 2201 - Circuit Analysis I
- EECE 2203 - Circuit Analysis Lab

- ENGL 2201 - Literary Heritage

or

- ENGL 2202 - Lit Heritage: African-American

## Semester Totals 31 hrs

### Junior Year

- Social Science (3)
- MECH 3311 - Engineering Thermodynamics I
- MECH 3320 - Engineering Materials
- MECH 3321 - Mechanics of Machines
- MECH 3325 - Materials Laboratory
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 3312 - Engineering Thermodynamics II
- MECH 3323 - Machine Design
- MECH 3341 - Numerical/Statistical Methods
- MECH 3351 - Heat Transfer I
- MECH 3355 - Thermo/Heat Transfer Lab
- ENGL 3603 - Engineering Communications

## Semester Totals 33 hrs

### Senior Year

- MECH 4319 - Engineering Econ/Project Mgmt
- MECH 4314 - Senior Design I
- MECH 4300 - Prep/Professional Practice
- MECH 4322 - System Dynamics

- Humanities/Fine Arts (3) \*
- MECH Elective (3)
- MECH 4335 - System Dynamics Lab
- MECH 4323 - Senior Design II
  - Technical elective (3) \*\*
  - MECH elective (3)
  - Humanities/Fine Arts (3) \*
- ECON 2010 - Intro to Macroeconomics

Semester Totals 32 hrs

Total Hours: 120

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

*\*\* An upper division course in engineering, mathematics, physics, or chemistry. Advisor's approval required.*

## **Accelerated Bachelor/Masters**

### **Mechanical Engineering, (Accelerated B.S.M.E./M.S.)**

## **Accelerated B.S.M.E./M.S. Program in Mechanical Engineering**

This program allows outstanding undergraduates to begin the coursework for the Master of Science in Mechanical Engineering during their senior year. Students are encouraged to begin planning to enter the Accelerated B.S.M.E./M.S. program early in their undergraduate career, in consultation with their advisor in the Department of Mechanical Engineering.

Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study which will allow them to complete their B.S.M.E. degree while they also begin the coursework toward their M.S.

To apply, students must have a minimum 3.25 grade point average, and must submit two reference letters and a copy of their transcript to the Mechanical Engineering department. Each applicant will complete an interview with the graduate academic coordinator in mechanical engineering.

Students must also apply to the Graduate School for the accelerated B.S.M.E./M.S. program, which allows them to take graduate courses in mechanical engineering. To continue in the program past the B.S.M.E., students must apply for full admission into the Graduate School and into the Mechanical Engineering department's M.S. program.

Only in ABM programs, up to 9 hours of graduate course work may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to undergraduate GPA.

## University General Education Program (36 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

### Communication

- ENGL 3603 - Engineering Communications instead of COMM 2381.

### Mathematics

- MATH 1910 - Calculus I (students who have not had MATH 1730 or its equivalent must take it before enrolling in MATH 1910)

### Social/Behavioral Sciences

- ECON 2010 - Intro to Macroeconomics must be taken in addition to 3 hours from the other specified choices.

### Natural Science

- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

### History

Waived for B.S.E.E. students who have completed one unit of American history in high school.

## College and Degree Requirements (26 hours)

### Mathematics (11 hours)

- MATH 1920 - Calculus II



- MATH 2110 - Calculus III
  - MATH 3120

## Natural Science (8 hours)

- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab

## One of the Following:

- CHEM 1120 - General Chemistry II
- CHEM 1121 - General Chemistry II Lab

or

- BIOL 1110 - General Biology I
- BIOL 1111 - General Biology I Lab

## Collateral Courses (7 hours)

- CIVL 2131 - Statics

## One of the Following:

- EECE 2201 - Circuit Analysis I
- EECE 2203 - Circuit Analysis Lab

or

- EECE 2281 - Instrumentation Lab
- EECE 2283 - Electrical Engr/Instrumntation

## The Major (66 hours)

### Completion of

- MECH 1310 - Intro/Mechanical Engineering
- MECH 1312 - Mech Engr Computing I
- MECH 1314 - Mech Engr Computing II
- MECH 2316 - Engineering Design Comm I
- MECH 2332 - Dynamics
- MECH 3311 - Engineering Thermodynamics I
- MECH 3312 - Engineering Thermodynamics II

- MECH 3316 - Engineering Design Comm II
- MECH 3320 - Engineering Materials
- MECH 3321 - Mechanics of Machines
- MECH 3322 - Mechanics of Materials
- MECH 3323 - Machine Design
- MECH 3325 - Materials Laboratory
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 3341 - Numerical/Statistical Methods
- MECH 3351 - Heat Transfer I
- MECH 3355 - Thermo/Heat Transfer Lab
- MECH 4300 - Prep/Professional Practice
- MECH 4314 - Senior Design I
- MECH 4319 - Engineering Econ/Project Mgmt
- MECH 4322 - System Dynamics
- MECH 4323 - Senior Design II
- MECH 4335 - System Dynamics Lab

## Electives (9 hours)

Nine (9) hours of electives approved by the student's academic advisor.

## Typical 4-Year Mechanical Engineering Sequence

### Freshman Year

- ENGL 1010 - English Composition
- CHEM 1110 - General Chemistry I
- CHEM 1111 - General Chemistry I Lab
- MATH 1910 - Calculus I
- MECH 1310 - Intro/Mechanical Engineering
- MECH 1312 - Mech Engr Computing I
- ENGL 1020 - English Comp/Analysis
  - Natural Science (4) \*
- MATH 1920 - Calculus II
- MECH 1314 - Mech Engr Computing II
- PHYS 2110 - Sci/Engr Phys I/Calc
- PHYS 2111 - Sci/Engr Phys Lab I

Semester Totals 32 hrs

### Sophomore Year

- MATH 2110 - Calculus III
  - PHYS 2120 - Sci/Engr Phys II/Calc (3-4)
- PHYS 2120 - Sci/Engr Phys II/Calc
- PHYS 2121 - Sci/Engr Phys Lab II

- CIVL 2131 - Statics
- MECH 2318 - Engr Design Communication
  - MATH 3120 (3)
- MECH 2332 - Dynamics
- MECH 3322 - Mechanics of Materials
- EECE 2201 - Circuit Analysis I
- EECE 2203 - Circuit Analysis Lab
  
- ENGL 2201 - Literary Heritage
  
- or
  
- ENGL 2202 - Lit Heritage: African-American

## Semester Totals 31 hrs

## Junior Year

- Social Science (3)
- MECH 3311 - Engineering Thermodynamics I
- MECH 3320 - Engineering Materials
- MECH 3321 - Mechanics of Machines
- MECH 3325 - Materials Laboratory
- MECH 3331 - Fluid Mechanics
- MECH 3335 - Fluid Mechanics Lab
- MECH 3312 - Engineering Thermodynamics II
- MECH 3323 - Machine Design
- MECH 3341 - Numerical/Statistical Methods
- MECH 3351 - Heat Transfer I
- MECH 3355 - Thermo/Heat Transfer Lab
- ENGL 3603 - Engineering Communications

## Semester Totals 33 hrs

## Senior Year

- MECH 4319 - Engineering Econ/Project Mgmt
- MECH 4314 - Senior Design I
- MECH 4300 - Prep/Professional Practice
- MECH 4322 - System Dynamics
  - Humanities/Fine Arts (3) \*
  - MECH Elective (3)
- MECH 4335 - System Dynamics Lab
- MECH 4323 - Senior Design II
  - Technical elective (3) \*\*
  - MECH elective (3)
  - Humanities/Fine Arts (3) \*
- ECON 2010 - Intro to Macroeconomics

Semester Totals 32 hrs

Total Hours: 128

Total Hours Required for Graduation: 128

*\*Must satisfy University General Education Program Requirement*

*\*\* An upper division course in engineering, mathematics, physics, or chemistry. Advisor's approval required.*

## Honors

Melinda Jones, Ph.D., Director  
105 Honors Hall, (901) 678-2690  
<http://honors.memphis.edu>

The Helen Hardin Honors College provides exceptional educational opportunities for highly motivated and talented students. The College enables students (regardless of major) to take advantage of the more intimate learning environment offered by small classes. Honors faculty members promote active learning and provide excellent teaching, including individualized support and attention.

The College offers special curricular options and the opportunity to earn honors distinction. In most cases, participation in the College does not increase the number of credit hours required for graduation. Classes within the Program span the entire range of the University.

The Honors College encourages and supports opportunities that are designed to enhance the educational experience of its members. The Honors College also coordinates special academic, social, and cultural events for honors students in which they can become part of a community of friends and fellow scholars outside the classroom.

The Helen Hardin Honors College Office is located in Honors Hall on Patterson Street. There is a conference room, quiet study areas, a lounge area, and computer rooms for the use of honors students. The Director and Program staff may be reached at 901-678-2690.

### Admission and Retention Standards and Procedures

National Merit Finalists and recipients of the Cecil C. Humphreys Presidential Scholarship, the Provost's Scholarship, and the Dean's Scholarship Incoming are automatically admissible to the Program upon receipt of their applications. Other incoming freshmen who score a minimum of 27 on the ACT, or its equivalent on other tests, and have a 3.5 high school GPA are invited to apply to the Honors Program. Transfer students or students currently enrolled at the University of Memphis are also eligible for the Honors Program if they have earned an overall grade point average of 3.00 for freshmen and sophomores and 3.25 for juniors and seniors. Students who do not qualify in one of these ways will be considered for provisional admission upon direct application. Letters of recommendation, though not required, may also be submitted.

To be considered for admission, applicants must be admitted to the University of Memphis and complete a separate application for admission to the Honors College. An application for admission may be obtained from the Honors Office or downloaded from the Honors College web site: <http://www.memphis.edu/honors>.

Honors students are expected to maintain good academic standing to continue in the College; normally this is a minimum cumulative GPA of 3.0 in the freshman and sophomore years, and a minimum of 3.25 cumulative GPA in the junior and senior years. Students whose GPAs fall below the minimum will be allowed one probationary semester to raise their GPAs to the expected level. Students in the Honors College are expected to take a least one honors course each semester in order to maintain the privilege of priority registration and to fulfill scholarship service obligations.

### The Honors Curriculum and Requirements

The honors curriculum includes honors sections of General Education Program courses and other courses that fulfill core curriculum requirements. Honors programs offered by some departments also offer special honors sections of courses required for the major. Honors sections have the advantage of small class size, specially selected faculty, teaching that emphasizes student participation, and assignments that encourage students to think independently.

In addition to honors sections of regularly offered courses, the Honors College also offers courses designed specifically for honors students. Courses carrying the UNHP subject area are interdisciplinary in nature, designed to explore a particular topic intensively and creatively.

Students also may earn honors credit by designing their own special projects based on independent study, fieldwork, or an internship experience (see UNHP 4900 course descriptions), or by contracting for honors credit within the context of a regularly scheduled course not officially offered as an honors course. Detailed information about earning honors credit through these approaches is available in the Honors Office. A minimum grade of "B" (3.0) is required in each honors course for it to count toward fulfilling the honors course requirement, but regular credit for the course will be earned if the grade is lower than a "B" (3.0).

**Students within the Honors College may pursue one of two tracks leading to "graduation with honors": University Honors or University Honors with Thesis.**

**University Honors:** To attain "University Honors," with transcript and diploma notations, students complete 25 semester hours of honors coursework that includes UNHP 1100 (see UNHP course descriptions). Students must earn a minimum grade of "B" (3.0) in all honors courses and achieve a 3.25 cumulative grade point average.

**University Honors with Thesis:** The highest honor an Honors College student can achieve is "University Honors with Thesis," which carries transcript and diploma notations. To attain this honors designation, students must complete a minimum of 25 semester hours of honors coursework that includes UNHP 1100 and a 3-credit senior honors thesis or project. Student must earn a minimum grade of "B" (3.0) in all honors courses and achieve a 3.25 cumulative grade point average.

The UNHP 1100 course requirements may be waived for students who are accepted into the University Honors College after completing university coursework at the University of Memphis or another institution, with the expectation that they will substitute three semester hours of honors courses for this requirement.

**Departmental or College Honors Programs:** Some academic departments offer honors programs based on work in the major. Academic areas in the Fogelman College of Business and Economics offer a college-wide program for students pursuing the Bachelor of Business Administration, and several disciplines in the College of Arts and Sciences, the College of Communication and Fine Arts, and the Herff College of Engineering offer students the opportunity to earn honors distinction through special projects and independent study.

Generally speaking, students must have a 3.25 cumulative grade point average to pursue and receive department or college honors. Students should consult the specific department or college listing in this Catalog for detailed requirements, or contact the Honors College Office for a listing of departments offering honors work in the major.

**The Non-Resident Honors Student Award**

A limited number of Non-Resident Honors Student Awards are available on a competitive basis to non-resident students who enroll full-time and who are actively pursuing an Honors College designation. This award allows out-of-state students to pay in-state tuition. Students who receive this award are required to maintain good standing with the Honors College, take at least one honors course every semester until they have earned the baccalaureate degree, and work toward graduation with an honors designation. Entering freshmen receive primary consideration for this award. Application forms for admission to the Honors Program and for the Non-Resident Honors Student Award may be obtained by writing to the Helen Hardin Honors College, 105 Honors Hall, University of Memphis, Memphis, TN 38152-6140; by calling 901-678-2690; or by faxing 901-678-5367. Students may also submit an on-line application for the Non-Resident Honors Student Award at <http://honors.memphis.edu>

**Special Opportunities for Honors Students**

Students in the Honors College participate in an intellectually vibrant atmosphere that extends beyond the classroom. Honors students are challenged by enriched honors courses, interdisciplinary seminars, and conversations with visiting scholars. Students have opportunities to extend their learning beyond the classroom and into the community through internships and public service. Students in the program may elect to live in honors-designated housing, which provides an atmosphere conducive to studying, but at the same time a place where friendships are easily established. Because of the special nature of their contribution to the University, honors students enjoy other privileges as well, including priority registration, extended library borrowing privileges, an honors computer lab, and special ceremonies that recognize outstanding students.

Students in the Honors College are strongly encouraged to participate in undergraduate research opportunities. The Honors College administers the Undergraduate Research Scholar Program that provides students the opportunity to present individual research at student research forums on campus. The Honors College sponsors the Works-in-Progress Symposium (WIPS) held at the University of Memphis each November, which gives all undergraduates an opportunity to present their research. Students who present at WIPS are encouraged to apply for acceptance to the National Conference on Undergraduate Research (NCUR) during the spring semester. Students who attend both WIPS and NCUR, and present at one other approved research forum can earn the designation "Undergraduate Research Scholar" on their transcript. Membership in the Honors College is not required for this transcript designation.

# Loewenberg College of Nursing

## The Loewenberg College of Nursing

Lin Zhan, Ph.D., RN, Dean  
4055 North Park Loop, Community Health Building; (901) 678-2020  
<http://nursing.memphis.edu>

### Purposes

The primary function of The Loewenberg College of Nursing is to offer a program of study designed to prepare students for careers in professional nursing. As a part of a comprehensive university, the school is dedicated to developing scholarship in nursing and providing services that support the institutional mission.

The program is designed to accommodate the needs of high school graduates, transfer students, college graduates, licensed practical nurses, and registered nurses who are graduates of diploma or associate degree nursing programs. The school is committed to: (1) providing a curriculum leading to the degree of Bachelor of Science in Nursing basic to beginning professional practice and graduate study in nursing; (2) promoting the intellectual, personal and professional development of students by offering a curriculum that combines a strong liberal education with the professional major; (3) providing a plan of study with flexible options that are responsive to the individual learner's needs; (4) encouraging the use of opportunities available in a comprehensive university setting to foster values, attitudes and personal qualities essential to living a fulfilling life and contributing to a diverse society, (5) producing politically and socially conscious graduates who are competent practitioners in a variety of settings; and (6) preparing graduates who assume leadership roles to effect change for a healthy society.

Graduates of the program are eligible to apply to take the NCLEX examination for state licensure through the respective state boards of nursing. Program applicants should be aware that conviction of the following crimes would make the student ineligible for Registered Nurse licensure in the State of Tennessee: Aggravated Assault as in T.C.A. 39-13-102; First Degree Murder, as in T.C.A. 39-13-202; Second Degree Murder, as in T.C.A. 39-13-207; Voluntary Manslaughter, as in T.C.A. 39-13-211; False Imprisonment, as in T.C.A. 39-13-302; Kidnapping, as in T.C.A. 39-13-303; Aggravated Kidnapping, as in T.C.A. 39-13-304; Especially Aggravated Kidnapping, as in T.C.A. 39-13-305; Robbery, as in T.C.A. 39-13-401; Aggravated Robbery, as in T.C.A. 39-13-402; Especially Aggravated Robbery, as in T.C.A. 39-13-403; Aggravated Rape, as in T.C.A. 39-13-502; Rape, as in T.C.A. 39-13-503; Aggravated Sexual Battery, as in T.C.A. 39-13-504; Sexual Battery, as in T.C.A. 39-13-505; Statutory Rape, as in T.C.A. 39-15-506; Theft of Property, as in T.C.A. 39-14-103; Theft of Services, as in T.C.A. 39-14-104; Forgery, as in T.C.A. 39-14-114; Falsifying of Educational and Academic Records, as in T.C.A. 39-14-136; Arson, as in T.C.A. 39-14-301; Aggravated Arson, as in T.C.A. 39-14-302; Burglary, as in T.C.A. 39-14-402; Aggravated Burglary, as in T.C.A. 39-14-404; Incest, as in T.C.A. 39-15-302; Aggravated Child Abuse, as in T.C.A. 39-15-402; Sexual Exploitation of a Minor, as in T.C.A. 39-17-1003; Aggravated Sexual Exploitation of a Minor, as in T.C.A. 39-17-1004; Especially Aggravated Sexual Exploitation of a Minor, as in T.C.A. 39-17-1005; Assisted Suicide, as in T.C.A. 39-13-216; Rape of a Child, as in T.C.A. 39-13-522.

### Organization

The Loewenberg School of Nursing is organized as one unit under the leadership of a dean. The curriculum leading to the degree of Bachelor of Science in Nursing includes general education and support courses offered through other units of the university as well as the major requirements offered by the school. A comprehensive approach to health care is emphasized through utilization of a wide variety of health care settings available in Memphis and the surrounding community.

The faculty of the Loewenberg School of Nursing represents all clinical areas of nursing practice and a variety of experiences and interests. They reflect this diversity in their teaching, practice and research and are qualified by practical experience as well as by academic credentials, to function as facilitators of learning.

The Loewenberg School of Nursing holds membership in the American Association of Colleges of Nursing, Southern Council for Collegiate Education in Nursing, and the National League for Nursing. The LSON programs are fully accredited by the Commission on Collegiate Nursing Education, One Dupont Circle NW, Suite 530, Washington, DC 20036-1120, (202) 887-6791 and approved by the Tennessee Board of Nursing

## Program Outcomes

Baccalaureate graduates of the Loewenberg School of Nursing:

1. Provide safe and high-quality nursing care across a continuum of healthcare environments.
2. Use evidence based research, informatics, and technologies in nursing practice to improve the health of diverse populations.
3. Explore the impact of socio-cultural, economic, legal and political factors that shape healthcare delivery and professional nursing practice.
4. Communicate and collaborate effectively both inter-professionally and intra-professionally.
5. Implement clinical prevention and health promotion strategies to improve patient health outcomes.
6. Demonstrate professional values and ethical behaviors in all dimensions of nursing practice.

## Degree Requirements

1. To qualify for the degree of Bachelor of Science in Nursing, the student must complete a minimum of 120 semester hours with the minimum overall grade point average of 2.0 and must meet specific grade requirements described below.
2. A minimum grade of "C" must be earned for English 1010 and 1020 and each required math, social science, nutrition, science, upper division, and each required nursing course.
3. Detailed course requirements are described below under General Education Program Requirements, Other Support Course Requirements, and Nursing Course Requirements.

## Admission

The Loewenberg College of Nursing is organized as one unit under the leadership of a dean. Programs are offered at both the Memphis and Lambuth (Jackson, TN) campuses. The curriculum leading to the degree of Bachelor of Science in Nursing includes general education and support courses offered through other units of the university as well as the major requirements offered by the school. A comprehensive approach to health care is emphasized through utilization of a wide variety of health care settings available in Memphis and Jackson, and their surrounding communities.

The faculty of the Loewenberg College of Nursing represents all clinical areas of nursing practice and a variety of experiences and interests. They reflect this diversity in their teaching, practice and research and are qualified by practical experience as well as by academic credentials, to function as facilitators of learning.

The Loewenberg College of Nursing holds membership in the American Association of Colleges of Nursing, Southern Council for Collegiate Education in Nursing, and the National League for Nursing Council for Baccalaureate and Higher Degree Programs. All nursing programs are fully accredited by the Commission on Collegiate Nursing Education, One Dupont Circle NW, Suite 530, Washington, DC 20036-1120, (202) 887-6791 and approved by the Tennessee Board of Nursing.

## Admission

Because the University of Memphis seeks to provide in as much as possible a reasonably safe environment for its health career students and their patients, students may be required during the course of the program to demonstrate their physical and/or emotional fitness to meet the essential requirements of the program. Such essential requirements include freedom from communicable diseases, the ability to perform certain physical tasks, and suitable emotional fitness. Any appraisal measures used to determine such physical and/or emotional fitness will be in compliance with Section 504 of the Rehabilitation Act of 1973 and the American with Disabilities Act of 1990, so as not to discriminate against any individual on the basis of disability. See specific criteria under Sophomore Admission.

Core performance standards for admission and progression:

1. Critical thinking ability sufficient for clinical judgment.
2. Interpersonal abilities sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds.
3. Communication abilities sufficient for interaction with others in verbal and written form.
4. Physical abilities sufficient to move from room to room and maneuver in small spaces.
5. Gross and fine motor abilities sufficient to provide safe and effective nursing care.
6. Auditory ability sufficient to monitor and assess health needs.
7. Visual ability sufficient for observation and assessment necessary in nursing care.

8. Tactile ability sufficient for physical assessment.

## Admission

### Freshman Admission

High School students may apply in their senior year to the Loewenberg College of Nursing. Applicants who meet the following criteria are admitted to the BSN program in the 2nd semester of the sophomore year providing fulfillment of all BSN admission criteria.

Freshman admission requirements:

1. Admission to the UofM as a pre-nursing major undergraduate student for the current application term.
2. Submission of a completed online application to the Loewenberg College of Nursing (LCON) prior to the published deadline.
3. Completion of high school Algebra I, II, Geometry, Biology, and Chemistry.
4. Minimum ACT score of 23 with a minimum score of 21 in all areas.
5. Graduation from an accredited high school with a cumulative grade point average of 3.0.

### BSN Admission Requirements and Criteria

1. Admission to the UofM as a degree seeking undergraduate student for the current application term.
2. Submission of a completed online application to the Loewenberg College of Nursing (LCON) prior to the published deadline.
3. Achievement of a minimum college cumulative GPA of 2.7 at the time of application.
4. Completion of general education requirements prior to enrollment is strongly advised; applicants may have no more than 6 general education credit hours to be completed.
5. Completion of all prerequisite courses prior to enrollment; a minimum grade of "C" must be earned. Prerequisite courses include:
  - English Comp I & II, Intro Sociology or General Psychology, Math 1420, 1530, 1710, 1730, 1830, or 1910 and Nutrition;
  - Anatomy & Physiology I (with lab), Anatomy & Physiology II (with lab), and Microbiology (with lab).
6. Accelerated BSN admission criteria include a baccalaureate degree and completion of Math 1530 or equivalent.
7. Completion of two of three (2 of 3) prerequisite science courses at the time of application and all three prior to enrollment. Science courses include: Anatomy & Physiology I (with lab), Anatomy & Physiology II (with lab), and Microbiology (with lab).
  - a. Applicants are required to complete prerequisite science courses seven (7) years of LCON admission earning a minimum combined GPA of 2.66.
  - b. One (1) science course may be repeated one time only; the second earned letter grade of the repeated course will be used in the science GPA calculation. The first letter grade for the remaining two (2) science courses will be used in the science GPA calculation.
  - c. Students with two (2) or more science courses in-progress at the time of application will be considered for admission with completion of two (2) college general science courses (for science majors) earning a grade of "C" or better on the first attempt. The highest 1st attempt course grades will be used in the science GPA calculation.
  - d. Preference will be given to those students who completed all science pre-requisites and meet the required GPA at the time of application.
8. Clearance of all high school deficiencies.
9. Applicants transferring from or previously enrolled in another nursing program must submit a letter of good standing or support from the dean/director of the previous nursing program, along with an official transcript, and meet LCON admission and progression standards as stated in the Undergraduate Catalog. Students earning a grade of D or F for one or more nursing courses within five (5) years of application are not eligible for admission.
10. Have a minimum TOEFL score of 173 computer-based, 61 Internet-based, or 500 paper-pencil, or a minimum IELTS score of 5.0 (for students for whom English is a second language).

### RN-BSN Admission Requirements and Criteria



1. Be admitted to the University of Memphis as a degree-seeking undergraduate student.
2. Submission of a completed online application to the Loewenberg College of Nursing (LCON) prior to the published deadline.
3. Have a minimum college cumulative grade point average of 2.5, a cumulative grade point average of 2.00 in prerequisite science courses.
4. Completion of prerequisite courses with a minimum grade of "C" or better. Prerequisite courses include:
  - English Comp I & II, Intro Sociology or General Psychology, Math 1420,1530, 1710, 1730, 1830, or 1910 and Nutrition, Anatomy & Physiology I (with lab), Anatomy & Physiology II (with lab), and Microbiology (with lab).
5. Prerequisite science courses completed later than seven (7) years of LCON admission may be accepted with validation from current healthcare employer.
6. Hold an unencumbered, active RN license.

## BSN Admission Selection Process

1. All students admitted to LCON as freshmen who meet the BSN admission criteria by the second semester of the sophomore year matriculate in the nursing program.
2. After freshmen nursing majors have been selected, all other BSN applicants are considered on a competitive space available basis for the Memphis and Lambuth campuses.
3. For each campus, applicants are rank-ordered by cumulative GPA (40%), weighted Science GPA (40%), and weighted Math grade (20%).
  - a. A minimum of two science courses are used to calculate the Science GPA; general science grades (for science majors) are used if two or more science prerequisites are in-progress. The highest weight is applied to the Science GPA derived from all three prerequisite science courses. The lowest weight is applied to the Science GPA derived from two general science courses (for science majors). Consideration will be given to those students who completed all science prerequisites and meet the required GPA at the time of application.
  - b. For students who complete more than one math course, the higher course grade is used to calculate the weighted Math grade. The highest weight is applied to the MATH 1530, MATH 1710, MATH 1730, MATH 1830, or MATH 1910 course grade. A lower weight is applied to the Math 1420 course grade.
4. An alternate list may be established each semester to fill vacancies that might occur before the beginning of class. The rank order for the alternate list is applied similarly to the acceptance list. 5. Students who are not accepted must reapply to be considered for another admission cycle.
5. Freshman admission students must have complete files by May 1.
6. Sophomore and Accelerated BSN students must have complete files by the deadline (February 15 for Fall; October 1 for Spring) to be considered.

## Advanced Placement Admission - RN Students

### Advanced Placement Admission

To be admitted with advanced placement, the Registered Nurse must:

1. Be admitted to the University of Memphis as a degree-seeking undergraduate student.
2. Have current licensure as a Registered Nurse in Tennessee.
3. Submit evidence of recent clinical practice.
4. Have a minimum college cumulative grade point average of 2.7.
5. Have completed specified pre-nursing courses with a minimum grade of "C": ENGL 1010, ENGL 1020 (6); BIOL 2010/BIOL 2011, BIOL 2020/BIOL 2021 (8), MATH 1420, MATH 1530, or MATH 1830, MATH 1910 or 2000, BIOL 1230/BIOL 1231 (4); SOCI 1111 or PSYC 1200; NUTR 3202\*.
6. Minimum of 2.66 cumulative grade point average in required laboratory science courses: BIOL 2010/BIOL 2011 and BIOL 2020/BIOL 2021; BIOL 1230/BIOL 1231. A prerequisite science course may be repeated only once to earn a minimum grade of "C". A maximum of two prerequisite science courses may be repeated to earn the minimum required grade.
7. Must meet the Sophomore Admission Criteria identified earlier, except that NCLEX is required.

\*Credit in NUTR 2202 may also be used to meet this course requirement

# Accelerated Second Degree BSN Program Option

## Accelerated Second Degree

### Accelerated Second Degree BSN Program Options

The graduate with a non-nursing Bachelor's degree may choose to enroll in the Accelerated Second Degree BSN Program Option. The 16-month program allows students to master theoretical and clinical knowledge and skill needed to become a professional nurse who is prepared to positively influence nursing and the health of the global community. Enrollment in the Accelerated Second Degree BSN Program Option is in the fall semester and consists of three semesters on one summer of the nursing major. More information is located on the Loewenberg College of Nursing website.

## Academic Advising

### Advising

Students who are completing courses required for admission to The Loewenberg College of Nursing (LCON) receive advising through the Academic Counseling Center. However, questions about admission requirements may be addressed to the Assistant Dean, Students Affairs in the LCON. A LCON Academic Advisor advises RN students while they are completing courses required for admission to The LCON.

Following admission to The LCON, each student is assigned an Academic Advisor from the school. The Academic Advisor will assist the student in planning for completion of the BSN program and will provide the opportunity for meaningful discussion regarding academic progress and career goals. This assistance, however, does not in any way relieve the student of the primary responsibility for studying the Undergraduate Catalog and fulfilling all the requirements for the degree.

Each student is assigned a Faculty Advisor with the College of Nursing, who will mentor and advise students in areas related to learning needs, study skills, meaningful program of study development, long-term professional and leadership development, and will provide career coaching and development of lifelong learning, reasoning/decision making, judgment skills, and balance of college life.

## Loans and Scholarships

### Loans

Students are encouraged to complete applications and forms for financial aid. These are available in the Student Financial Aid Office. Some scholarships are also available through The Loewenberg College of Nursing. These scholarship applications are available in the school office.

### Fees

Practicum nursing courses require an additional fee of \$60 and Skills Laboratory courses an additional fee of \$50 and \$122. Theory courses have an additional fee of \$25 for testing. These fees are not included in the Fee Schedule

## Residency

University residence requirements are explained in detail in the Graduation from the University section of this catalog. Note that students transferring from a community or junior college must complete a minimum of sixty semester hours in an accredited senior institution. In addition, 30 of the last 60 semester hours for the degree must be completed at the University of Memphis.

## Progression in the Nursing Major

1. A nursing course may only be entered twice.
2. A minimum grade of "C" must be earned in each nursing course to progress. Failure to earn a minimum grade of "C" will require repeating the course before attempting other nursing courses.
3. When the theory or clinical component of any course sequence must be repeated, the companion course must also be repeated even though a satisfactory grade has been earned.
4. Irregular progression students who are out of clinical nursing course work for longer than three months will be reviewed by the Associate Dean who may require testing or the repetition of courses in which satisfactory grades have been earned.

## Disqualification from the Nursing Major

1. Failure to earn a minimum grade of "C" or better, or "S" (clinical) when repeating a nursing course.
2. Failure to earn a "C" or better, or "S" (clinical) in two nursing courses.
3. Professional/academic misconduct or dishonesty.
4. Falsification of any academic/medical/nursing record or misrepresentation of nursing care or credential.
5. Clinical practice that places patients in physical or emotional jeopardy after the student is taught otherwise.
6. Failure to adhere to LCON substance abuse policy.

## Clinical Nursing Course Requirements

Before enrolling in a clinical nursing course, students must present evidence of current CPR certification, professional liability insurance (\$1,000,000 per occurrence/\$3,000,000 aggregate minimum coverage), criminal background and credential check, appropriate immunizations and titers, and a statement of good health, including a negative PPD skin test or chest x-ray. Immunizations and titers include DT, measles, mumps, polio, Hepatitis B; Rubella vaccine or titer showing immunity; varicella titer. The basic nursing student will pay for malpractice insurance at fee payment. RN students must purchase their own insurance and present evidence prior to enrolling in clinical nursing courses. RN students are also required to present evidence of current licensure in Tennessee.

Students are encouraged to complete these requirements during the semester prior to anticipated enrollment. No student will be allowed to participate in clinical learning experiences until these requirements are satisfied.

## Credit by Exam

Credit for some of the upper division nursing courses may be earned through credit by examination. Other methods of earning credit are explained in detail in the Academic Regulations section of this Catalog.

## RN Licensure

Upon graduation from the program, graduates are eligible to take the NCLEX examination for licensure at testing sites determined by the Tennessee Board of Nursing.

## Student Organization

Students are encouraged to join their professional organization, Student Nurses' Association. This is the local chapter of the National Student Nurses' Association.

Senior students who have achieved a 3.0 cumulative grade point average and who are recommended by faculty are eligible to apply for induction into Sigma Theta Tau, Beta Theta Chapter at Large of the international nursing honor society.

## Major

### Nursing, (B.S.N.)

#### University General Education Program (41 hours)

See Graduation from the University for University General Education Program requirements. Note the following requirements are specified for this program:

#### Natural Science:

- BIOL 2010 - Anatomy/Physiology I \*
- BIOL 2011 - Anat/Physiology I Lab \*
- BIOL 2020 - Anatomy/Physiology II \*
- BIOL 2021 - Anat/Physiology II Lab \*

#### Social/Behavioral Sciences:

- PSYC 1030 - General Psychology
- or
- SOCI 1010 - Introduction to Sociology

#### Support Courses for Nursing Major (10 hours)

All support courses must be completed with a minimum cumulative grade of "C".

#### Microbiology (4 hours):

Science courses must have a minimum cumulative grade point average of 2.66 and must have been completed in the past 7 years. Refer to Science Course Validation section below.

- BIOL 1230 - Microbiology
- BIOL 1231 - Microbiology Lab

## Nutrition (3 hours):

- NUTR 2202 - Nutrition
- or
- NUTR 3202 - Nutrition/Health Care

## Statistics (3 hours):

If MATH 1530 is used for math general education course and support course, the student will need an elective course for the additional 3 hours.

- MATH 1530 - Prob/Statistics/Non Calculus
- EDPR 4541 - Fundmntl/Applied Stat Method
  - SOCI 3311

with a minimum grade of "C"

## The Major (66 hours)

### Completion of

- NURS 3005 - Intro Professional Nursing
- NURS 3006 - Professional Nursing Seminar
- NURS 3105 - Foundations PT-Centered Care
- NURS 3106 - Foundational Nursing Skills
- NURS 3000 - Pharmacology in Nursing
- NURS 3101 - Health Assessment
- NURS 3103 - Health Assessment Lab
- NURS 3205 - Nurs Adult I/Common Hlth Alt
- NURS 3206 - Nursing Adult I/Practicum
- NURS 3127 - Mental Health Nursing
- NURS 3129 - Mental Health Nurs Practicum
- NURS 3217 - Nursing/Childbearing Family
- NURS 3219 - Nurs Childbearing Family Pract
- NURS 3227 - Pediatric Nursing
- NURS 3229 - Pediatric Nursing Practicum
- NURS 3230 - Gerontological Nursing
- NURS 3231 - Gerontological Nurs Practicum
- NURS 3305 - Nurs Adult II/Complex Hlt Alt
- NURS 3306 - Nurs Adult II/Complex Pract
- NURS 3400 - Clinical Pathophysiology
- NURS 4110 - Evidence Based Practice Nurs
- NURS 4127 - Community Health Nursing
- NURS 4129 - Community Hlth Nurs Practicum
- NURS 4205 - Transition Professional Nurs
- NURS 4206 - Transition Prof Nurs Practicum

## Elective (3 hours)

Any upper division course at the 3000 or 4000 level.

## Nursing Course Requirements - Basic Students/Accelerated BSN Option

### Completion of

- NURS 3005 - Intro Professional Nursing
- NURS 3006 - Professional Nursing Seminar
- NURS 3105 - Foundations PT-Centered Care
- NURS 3106 - Foundational Nursing Skills
- NURS 3000 - Pharmacology in Nursing
- NURS 3101 - Health Assessment
- NURS 3103 - Health Assessment Lab
- NURS 3205 - Nurs Adult I/Common Hlth Alt
- NURS 3206 - Nursing Adult I/Practicum
- NURS 3127 - Mental Health Nursing
- NURS 3129 - Mental Health Nurs Practicum
- NURS 3217 - Nursing/Childbearing Family
- NURS 3219 - Nurs Childbearing Family Pract
- NURS 3227 - Pediatric Nursing
- NURS 3229 - Pediatric Nursing Practicum
- NURS 3230 - Gerontological Nursing
- NURS 3231 - Gerontological Nurs Practicum
- NURS 3305 - Nurs Adult II/Complex Hlt Alt
- NURS 3306 - Nurs Adult II/Complex Pract
- NURS 3400 - Clinical Pathophysiology
- NURS 4110 - Evidence Based Practice Nurs
- NURS 4127 - Community Health Nursing
- NURS 4129 - Community Hlth Nurs Practicum
- NURS 4205 - Transition Professional Nurs
- NURS 4206 - Transition Prof Nurs Practicum

### Upper Division Elective (3 hours):

Any 3000-4000 course.

## Nursing Course Requirements - RN Students

### Nursing (31 hours):

- NURS 3005 - Intro Professional Nursing
- NURS 3006 - Professional Nursing Seminar

- NURS 3101 - Health Assessment
- NURS 3103 - Health Assessment Lab
- NURS 3400 - Clinical Pathophysiology
- NURS 3000 - Pharmacology in Nursing
- NURS 4110 - Evidence Based Practice Nurs
- NURS 4127 - Community Health Nursing
- NURS 4129 - Community Hlth Nurs Practicum
- NURS 4205 - Transition Professional Nurs
- NURS 4206 - Transition Prof Nurs Practicum

## Upper Division Elective (3 hours):

Any 3000-4000 course.

## Note

The remaining hours for the major requirements are fulfilled by validation.

Under the Tennessee Career Mobility Plan registered nurses who have graduated from Tennessee schools or out-of-state NLN accredited programs will be able to progress to the baccalaureate degree in nursing without testing to verify previous nursing education. Registered nurses articulating to the baccalaureate level may be awarded or transfer in nursing credits equivalent to approximately one year of nursing courses. For this to occur, a minimum grade of "C" must have been earned in previous nursing course work. Nursing credits transferred or awarded will be held in escrow. These credits will be placed on individual transcripts only after students have successfully completed 15 hours of nursing courses with a minimum grade of "C" in The Loewenberg College of Nursing. Non nursing credits are transferred according to university policies. Testing will be required for graduates of non NLN accredited programs or for students who have not been in active clinical practice in the past three years.

The following represent typical schedule plans for basic students.

## Basic BSN Students

### Freshman Year

- ENGL 1010 - English Composition
- BIOL 2010 - Anatomy/Physiology I
- or
- BIOL 2011 - Anat/Physiology I Lab
  - Humanities (3) \*
  - History (3) \*
  - Social/Behavioral Sciences (3) \*
- ENGL 1020 - English Comp/Analysis
- BIOL 2020 - Anatomy/Physiology II
- or

- BIOL 2021 - Anat/Physiology II Lab
  - History (3) \*
  - MATH (3) \*
  - Humanities (3) \*

Semester Totals 32 hrs

## Sophomore Year

- ENGL 2201 - Literary Heritage
  - or
- ENGL 2202 - Lit Heritage: African-American
- BIOL 1230 - Microbiology
  - or
- BIOL 1231 - Microbiology Lab
  - Social/Behavioral Sciences (3) \*
- NUTR 2202 - Nutrition
  - or
- NUTR 3202 - Nutrition/Health Care
- COMM 2381 - Oral Communication
- NURS 3000 - Pharmacology in Nursing
- NURS 3400 - Clinical Pathophysiology
- NURS 3101 - Health Assessment
- NURS 3103 - Health Assessment Lab
- NURS 3105 - Foundations PT-Centered Care
- NURS 3106 - Foundational Nursing Skills

Semester Totals 30 hrs

## Junior Year

- NURS 3005 - Intro Professional Nursing
- NURS 3006 - Professional Nursing Seminar
- NURS 3127 - Mental Health Nursing
- NURS 3129 - Mental Health Nurs Practicum
- NURS 3205 - Nurs Adult I/Common Hlth Alt
- NURS 3206 - Nursing Adult I/Practicum
- NURS 4127 - Community Health Nursing
- NURS 4129 - Community Hlth Nurs Practicum
- NURS 4110 - Evidence Based Practice Nurs
- NURS 3217 - Nursing/Childbearing Family
- NURS 3219 - Nurs Childbearing Family Pract



- NURS 3230 - Gerontological Nursing
- NURS 3231 - Gerontological Nurs Practicum
  - Statistics (3)

Semester Totals 33 hrs

## Senior Year

- NURS 3305 - Nurs Adult II/Complex Hlt Alt
- NURS 3306 - Nurs Adult II/Complex Pract
- NURS 3227 - Pediatric Nursing
- NURS 3229 - Pediatric Nursing Practicum
  - Upper Div Elective (3)
- NURS 4205 - Transition Professional Nurs
- NURS 4206 - Transition Prof Nurs Practicum

Semester Totals 25 hrs

## Note

\*Must satisfy University General Education Program Requirements

<sup>1</sup> Take one of the following: EDPR 4541, SOCI 3311, or any approved statistics course. If statistics was taken as your general education math, either MATH 1530, you may take an elective course.

## Progression Of Nursing Coursework:

All courses in group A must be completed before enrolling in any courses in group B. All courses in group B must be completed before enrolling in any courses in group C. All courses in group C must be completed before enrolling in any course in Group D. All courses in group D must be completed before enrolling in any course in Group E.

### Group A:

- NURS 3000 - Pharmacology in Nursing
- NURS 3101 - Health Assessment
- NURS 3103 - Health Assessment Lab
- NURS 3105 - Foundations PT-Centered Care
- NURS 3106 - Foundational Nursing Skills
- NURS 3400 - Clinical Pathophysiology

## Group B:

- NURS 3005 - Intro Professional Nursing
- NURS 3006 - Professional Nursing Seminar
- NURS 3127 - Mental Health Nursing
- NURS 3129 - Mental Health Nurs Practicum
- NURS 3205 - Nurs Adult I/Common Hlth Alt
- NURS 3206 - Nursing Adult I/Practicum
- NURS 4127 - Community Health Nursing
- NURS 4129 - Community Hlth Nurs Practicum

## Group C:

- NURS 4110 - Evidence Based Practice Nurs
- NURS 3230 - Gerontological Nursing
- NURS 3231 - Gerontological Nurs Practicum
- NURS 3217 - Nursing/Childbearing Family
- NURS 3219 - Nurs Childbearing Family Pract

## Group D:

- NURS 3227 - Pediatric Nursing \*
- NURS 3229 - Pediatric Nursing Practicum \*
- NURS 3305 - Nurs Adult II/Complex Hlt Alt
- NURS 3306 - Nurs Adult II/Complex Pract

## Group E:

- NURS 4205 - Transition Professional Nurs \*
- NURS 4206 - Transition Prof Nurs Practicum \*

## Note

\*Accelerated students only may take approved courses concurrently.

The following represent a sample full-time schedule for RN students:

## RN (Upper Division Requirements)

### Senior Year

\*Statistics prior to nursing courses.

- NURS 3005 - Intro Professional Nursing
- NURS 3006 - Professional Nursing Seminar
- NURS 3101 - Health Assessment
- NURS 3103 - Health Assessment Lab
- NURS 3400 - Clinical Pathophysiology
- NURS 3000 - Pharmacology in Nursing
- NURS 4127 - Community Health Nursing
- NURS 4129 - Community Hlth Nurs Practicum
- NURS 4110 - Evidence Based Practice Nurs
- NURS 4205 - Transition Professional Nurs
- NURS 4206 - Transition Prof Nurs Practicum
  - UD elective (3)

Semester Totals 34 hrs

### Note

\* Take one of the following: EDPR 4541, PSYC 3001, or SOCI 3311, or any approved statistics course.

### Science Course Validation:

If seven years have lapsed since credit was earned in BIOL 2010/BIOL 2011 and BIOL 2020/BIOL 2021 (Anatomy and Physiology), or BIOL 1230/BIOL 1231 (Microbiology), the content is considered outdated, and students are required to either repeat the course(s) or validate currency of knowledge. Required validation of current science knowledge for RNs will occur through employer verification, repeating of course, taking a higher level science course in the same field, or obtaining a fiftieth (50th) percentile score or above on the NLN appropriate science test.

## University College

### University College

DAN LATTIMORE, Ph.D., Dean  
 Room 218, John Willard Brister Hall  
 (901) 678-2716  
[www.memphis.edu/univcoll](http://www.memphis.edu/univcoll)

University College offers students a wide variety of traditional and online degree opportunities. Faculty from across the university provide the structure to explore and develop unlimited interdisciplinary, academic ventures. University College also seeks to create and maintain a spirit of academic community through careful and concerned advising and interaction outside the classroom among students, faculty, staff, and community professionals. Program objectives for majors in University College are to demonstrate: (a) the theoretical

and practical applications of their coordinated study area (i.e., major); (b) knowledge of appropriate communications practices, including effective writing, computer skills, and oral communications; (c) the ability to solve problems, to work independently and to work as members of a team in a professional setting through an experiential-learning environment; and (d) the ability to address significant problems, themes, and ideas which impact a global society.

## Admission to College

### Admission

In addition to following the procedure for admission to the University of Memphis, prospective students seeking admission to University College must also declare a major within the college. The form can be found at <http://www.memphis.edu/univcoll/forms.php>

### Student Evaluation

A student's performance is evaluated by: a traditional grading system (A-F), Satisfactory/Unsatisfactory, and Credit/No Credit options supplemented by written narrative evaluations; credit or placement by examination; Advanced Placement examinations for degree credit where available; and credit for validated learning from experience or non-traditional instruction. Of the 120 credit-hours required for graduation (except for the Regents Online Degree Program), at least 30 of the last 60 hours must be earned through credit at the University of Memphis.

### Honors

Students within the University Honors Program may pursue one of two tracks leading to "graduation with honors": University Honors or University Honors with Thesis.

**University Honors:** To attain "University Honors," with transcript and diploma notations, students complete 24 semester hours of honors coursework that includes UNHP 1101 and 1102 (see UNHP course descriptions). Students must

- complete the Honors Certificate,
- complete an Honors Thesis with a minimum grade of 3.0, and
- have a 3.25 cumulative grade point average.

Some of the Honors coursework may count toward the Bachelor of Liberal Studies, Bachelor of Professional Studies, or University General Education Program courses, and some may be part of the student's elective hours. The Senior Project may be designed to meet the Honors Thesis requirement. Consult the University Honors Program listing in this Catalog for detailed information about the Honors designation.

#### College Requirements

University College offers the Bachelor of Professional Studies (B.P.S.) and the Bachelor of Liberal Studies (B.L.S.) undergraduate degrees. These degrees require completion of the following:

### General Education Courses (35-41 hours)

See the Graduation from the University link for the University General Education Program requirements.

Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

### Coordinated Study (33 upper-division hours)

The Coordinated Study (i.e., courses that make up a student's major) must consist of courses from two or more academic disciplines.

Coordinated Study credit may be earned through courses offered by other departments on campus, credit by examination, credit for experiential learning, transfer credit, internships, or independent study courses.

Students must earn a minimum grade of 2.0 in each graded course and a minimum of 2.25 GPA overall in the Coordinated Study. All Coordinated Study plans must include a minimum of 9 graded upper-division hours taken at The University of Memphis. These credit-hours must be earned in courses from two or more departments.

## Thematic Studies (6 hours)

Thematic Studies courses examine a particular theme, problem, issue, or epoch from several points of view. These upper-division courses are designed to provide ways for undergraduates to integrate previous learning. All University College students must complete a minimum of 6 credit-hours of thematic studies courses. A list of thematic studies courses can be found at

[http://www.memphis.edu/univcoll/courseinfo/thematic\\_studies.php](http://www.memphis.edu/univcoll/courseinfo/thematic_studies.php)

## The Senior Project (3 hours)

The Senior Project should include academic research or other creative activity resulting in a tangible project to demonstrate synthesis of a student's Coordinated Study. PREREQUISITE: Senior standing. A student must earn a minimum grade of "C" on the Senior Project. Completed projects must also receive administrative approval before students are certified for graduation.

## Electives

Students may need to take lower or upper-division elective courses in order to reach the 120 credit-hours required for graduation. Such electives may typically be offered by any department at the University of Memphis.

## The Baccalaureate Contract Program

Undergraduate students admitted to University College may design either of two degrees through the Baccalaureate Contract Program: the Bachelor of Liberal Studies (B.L.S.) or the Bachelor of Professional Studies (B.P.S.).

To be eligible for this program, a student must have a cumulative undergraduate grade point average of 2.50. Upper-division courses within the student's Coordinated Study (i.e., major) must be from two or more departments on campus. In addition, the proposed degree must be unlike any other degree offered by the University of Memphis.

A Baccalaureate Contract Advising Committee, comprised of faculty members from the two primary departments represented in the student's Coordinated Study, will assist the student in the development and execution of a degree program that serves the student's needs and meets the academic requirements of University College and the University of Memphis. The committee members may be regular or adjunct members of the University of Memphis faculty. A third committee member is optional. The committee may direct the student in the preparation of a portfolio to obtain credit for knowledge gained through experience or nontraditional instruction (see Expenses and Aid for a description of credit evaluation fees in this bulletin).

All baccalaureate contracts will be reviewed and approved by a baccalaureate contract advisor and by the assistant dean of University College. The baccalaureate contract must include work to be completed in the following areas: (1) General Education, (2) Coordinated Study, (3) Thematic Studies, (4) a Senior Project, and (5) General Electives.

## Experiential Learning

Experiential learning is a systematic process for evaluating and credentialing learning gained in a variety of contexts. Upper/lower-division credit will be determined by a faculty assessor. For more details, please visit

[http://www.memphis.edu/univcoll/experiential\\_learning.php](http://www.memphis.edu/univcoll/experiential_learning.php)

## TN eCamus

The degrees offered are:

Bachelor of Professional Studies with concentrations Information Technology, International Organizational Leadership, or Organizational Leadership

Bachelor of Interdisciplinary Studies (General Studies/Liberal Studies/University Studies)

Tennessee colleges, universities, and technology centers joined to offer the TN eCamus degrees. All the institutions are fully accredited. Courses completed in the TN eCamus Programs are entirely online and transferable among all the participating institutions.

**The courses are available online for the degrees offered through the TN eCamus Program. Please note: TN eCamus courses may not satisfy University of Memphis degree programs. Consult an advisor before enrolling in any online course.**

For information about the requirements and courses for the TN eCamus, please see:

<http://www.rodip.org/home.htm>

## A Second Bachelor's Degree

Students seeking to earn a second bachelor's degree through University College must satisfy all degree requirements of the college and the university.

### Major

#### Alcohol and Drug Abuse Services, (B.P.S.)

Students in Alcohol and Drug Abuse Services concentration will select courses in alcohol & drug abuse and social & public services. Prior Work experience is welcomed and evaluated through portfolio assessment. Internships are also included in this concentration. Persons pursuing this degree typically provide services to those disabled by alcohol and drug abuse, including abusers, families, friends, colleagues, and associates. Wishing to build upon knowledge of and experience in alcohol and drug abuse treatment, persons served by these guidelines will seek careers in Alcohol & Drug Abuse (A&D) Services as providers of social and public services in hospitals, social service agencies, employee assistance programs, churches, etc. Some may wish to continue their education in graduate-level programs.

#### General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

#### Coordinated Study (30 hours)

#### Professional Core (6 hours)

Choose two courses:

- SWRK 2911 - Soc Response to Human Need
- COUN 4611 - Intro to Counseling
- COUN 4621 - Human Interactions

## Alcohol and Drug Core (6 hours)

Choose two courses:

- ANTH 4531 - Alcohol/Drugs/Culture
- CJUS 4152 - Drug Misuse and Abuse
- COUN 4783 - Alcohol/Drug Abuse Services
- PSYC 3507 - Alcohol/Drugs/Behavior Prerequisites: PSYC 1030, PSYC 3010, PSYC 3020.

## Professional Writing (3 hours)

Choose one course:

- ENGL 3601 - Technical and Profess Writing
- ENGL 3604 - Persuasive Writing
- MGMT 3510 - Business Communications (Prerequisite - MIS 2749)

## Social and Public Services (15 hours)

- CJUS 4533 - Juvenile Delinq Theory/Process
- COUN 4781 - Strategy/Crisis Intervention
- POLS 3213 - Intro to Public Policy
- PSYC 3102 - Abnormal Psychology
- PSYC 3103 - Child Psychology
- PSYC 3106 - Social Psychology
- SOCI 3501 - Sociology of Deviant Behavior
- SOCI 4851 - Medical Sociology
- SOCI 4852 - Sociology of Mental Illness
- SWRK 3902 - Human Behavior/Soc Envrnmnt Prerequisites: SWRK 2911, 2010; BIOL 1010/1011

## Guided Electives

Choose any 12 hours from courses in the Coordinated Study that have not already been taken.

## Internship (3 hours)

Students completing courses in Social and Public Services will complete 150 hours of supervised therapeutic experience.

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (Completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Asian Studies and International Trade, (B.L.S.)

[See University College website for additional information.](#)

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

For the Social and Behavioral Sciences requirement, ECON 2010 and ECON 2020 fulfill this requirement.

## Asian Studies for International Trade Concentration

Students must complete the requirements in each of the following three groups:

### Group 1: Foreign Language (9-21 hours)

Requirement: 9 hours at the 3000-level or above.

Students with previous background in the chosen language (Chinese or Japanese) must take the placement test to determine in what course they should enroll.

Students with no previous background in the chosen language will enroll in CHIN 1010 or JAPN 1010.



## Group 2: Area Studies (6 hours)

Students must complete 6 hours from the following:

- HIST 3290 - Traditional East Asia
- HIST 3291 - Modern Asia
- HIST 4292 - Modern China 1800-Present
- HIST 4294 - Modern Japan 1800-Present
  - HIST 4295 - Intellectual History of East Asia

## Group 3: International Economics and Business Studies (24 hours)

- ECON 2010 - Intro to Macroeconomics
- ECON 2020 - Intro to Microeconomics

## Business Courses (18 hours)

NOTE: Any other non-economics business course can count towards these 18 hours.

- FIR 3410 - Financial Management
- FIR 4550 - International Finance
- MGMT 3110 - Organization and Mgmt
- MGMT 4810 - International Management
- MKTG 3010 - Principles of Marketing
- MKTG 4530 - International Marketing

## College Requirements (9 hours)

### Thematic Studies (6 hours)

- ESCI 4307 - Thematic Studies/China
- UNIV 4506 - The Chinese
- UNIV 3550 - Clash of Cultures

### Senior Project (3 hours)

All sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project

## Recommended Electives (hours vary)

- ANTH 3200 - Peoples/Cultures World
- ESCI 3200 - People/Culture World
- ANTH 3511 - Culture/Kin/Family
- ANTH 4413 - Anth of Tourism/Environment
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- CDFS 2101 - Family/Global Perspective
- ESCI 1301 - Survey of World Regions
- ESCI 1401 - Intro/Cultural Geography
- ESCI 4430 - Economic Geography
- INTL 3700 - Special Topics in International Studies
- INTL 3701 - Special Topics in International Studies
- INTL 3702 - Special Topics in International Studies
- INTL 3703 - Special Topics in International Studies
- INTL 3704 - Special Topics in International Studies
- INTL 3705 - Special Topics in International Studies
- INTL 3706 - Special Topics in International Studies
- INTL 3707 - Special Topics in International Studies
- INTL 3708 - Special Topics in International Studies
- INTL 3709 - Special Topics in International Studies
- INTL 4601 - Seminar International Studies
- JOUR 4712 - Media and Cultures
- PADM 4401 - Comparative Public Adm
- POLS 1301 - Intro to Comparative Politics
- POLS 1501 - International Relations
- POLS 3310 - Politics/Developed World
- POLS 3320 - Human Rights/World Politics
- POLS 3325 - Politics/Developing World
- POLS 3330 - Politics/Globalization
- POLS 3505 - International Organizations
- POLS 3506 - American Foreign Policy
- POLS 3509 - Contmp Prblm Intl Relation
- POLS 4307 - Govt and Pol Communist China
- POLS 4504 - International Law
- POLS 4506 - Prob American Foreign Policy
- POLS 4508 - Theories Internatl Relations
- POLS 4510 - Politics of Global Economy
- POLS 4511 - International Security
- SOCI 2100 - Sociology of Globalization
- SOCI 4413 - Global/Culture/Info Technology

## Experiential Learning Credit

Students may be granted credit for college-level knowledge related to their major area of study that they have gained from work experience, life experience, or non-college instruction. Students who would like an assessment of such learning must prepare a portfolio that describes and documents their learning experience. Portfolios are assessed by faculty who teach in the student's field of study.

Assessment by Portfolio is reserved for knowledge and competencies that do not readily fit into the Credit by Examination procedures.

For more information please visit the Experiential Learning website at

[http://www.memphis.edu/innovation/elc/experiential\\_learning.php](http://www.memphis.edu/innovation/elc/experiential_learning.php)

## Baccalaureate Contract Program (Design Your Own Degree)

## Baccalaureate Contract Program (Design Your Own Degree)

Undergraduate students admitted to University College may design either of two degrees through the Baccalaureate Contract Program: the Bachelor of Liberal Studies (B.L.S.) or the Bachelor of Professional Studies (B.P.S.). To be eligible for this program, a student must have a cumulative undergraduate grade point average of 2.50. Upper-division courses within the student's Coordinated Study (i.e., major) must be from two or more departments on campus. In addition, the proposed degree must be unlike any other degree offered by the University of Memphis. All baccalaureate contracts will be reviewed and approved by a baccalaureate contract advisor and by the assistant dean of University College. The baccalaureate contract must include work to be completed in the following areas: (1) General Education, (2) Coordinated Study, (3) Thematic Studies, (4) a Senior Project, and (5) General Electives.

Additional information may be found on the [University College website](#).

## Child Development and Family Studies, (B.P.S.)

The Bachelor of Professional Studies in Child Development and Family Studies focuses on recognizing and enhancing important developmental milestones for children from birth through adolescence. Students will learn how to create effective learning environments to promote children's healthy development as well as assist parents in creating positive relationships and environments for the development of their children. In addition, students study the stages of development from infancy through adolescence and the ways that family, culture, peers, and schools influence the growth of children. Students will also explore the importance of advocacy for children and their families whether it be in the classroom, hospital, or justice system.

The B.P.S. in Child Development and Family Studies courses are designed to reflect professional standards set forth by the National Association for the Education of Young Children (NAEYC). These standards are critical indicators of program quality.

In addition to core courses based on early childhood development, these guidelines contain course work designed to develop skills and knowledge of the historical, social, cultural, and educational contexts of the field.

**This program DOES NOT lead to teacher licensure. Students interested in gaining a teaching license should contact the College of Education, Health and Human Sciences at 678-2728.**

## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Child Development & Family Studies Core (18 hrs)

- EDPR 2111 - Development Across Lifespan
- CDFS 2100 - Intro Fld of Chld Dev& Fam St
- CDFS 2101 - Family/Global Perspective
- CDFS 3401 - Parent Child Relations
- CDFS 4220 - Understand Chldn/Behv/Guide
- CDFS 4223 - Home/School/Comm Engage

## Family and Society (6 hrs-Take any 2)

- ANTH 3511 - Culture/Kin/Family
- PSYC 4034 - Children Soc Relationships

- SOCI 3422 - Racial/Ethnic Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 4442 - Sociology of Poverty
- MRCH 4300 - Family Resource Management

## Counseling (3 hrs-Take 1)

- COMM 4341 - Interpersonal Communication
- COUN 4611 - Intro to Counseling
- COUN 4621 - Human Interactions
- COUN 4781 - Strategy/Crisis Intervention
- COUN 4783 - Alcohol/Drug Abuse Services

## Historical Context (3 hrs Take 1)

- ANTH 3282 - American Communities
- HIST 3881 - African American History
- HIST 4831 - History American Family
- HIST 4851 - History of Women in America
- HIST 4853 - African American Women
- HIST 4863 - History/Childhood in America

## Social Services and Public Policy (6 hrs Take 2)

- PADM 3601 - Public Admin
- PADM 4226 - Intro Nonprofit Organizations
- POLS 3213 - Intro to Public Policy
- SWRK 2911 - Soc Response to Human Need
- SWRK 3902 - Human Behavior/Soc Envrnmnt
- SWRK 4934 - Child Welfare Policy/Services

All SWRK courses require permit from the department.

## Educational Context (9 hrs Take 3)

\*University College students MUST be Junior standing in order to enroll in ECED courses\*

- ART 3411 - Art for Children
- CDFS 4101 - Int Curr for Early Learners
- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch \*
- HLSC 3306 - Elementary School Health and Wellness
- ENGL 3401 - Children's Literature
- SPED 2000 - Foundation/Exceptional Learn

## Internship (3 hours)

- UNIV 4110 - Internship

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

Students must take enough electives hours to earn a minimum of 120 semester hours.

- \* 60 of these hours must be taken at a 4-year institution
- \* A minimum of 30 of the last 60 hours must be completed at the University of Memphis.
- \* A minimum of 42 upper division hours are required (3000 – 4000 level courses)
- \* A minimum of 9 graded hours in the major must be completed at the University of Memphis

## Child Life Specialist (B.P.S.)

These guidelines are designed for persons seeking careers as child life specialists. Child life specialists are professionals who work closely with children and their families in hospitals and other settings to help them cope with the challenges of hospitalization, illness, and disability. Child life specialists provide children with age-appropriate preparation for medical procedures, pain management and coping strategies through a variety of different activities. Students must complete the application process as the field is highly selective.

**This program DOES NOT lead to teacher licensure. Students interested in gaining a teaching license should contact the College of Education at 678-2728 or visit their website at: <http://www.memphis.edu/tep/>.**

## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Child Development & Family Studies Core (18 hrs)

- EDPR 2111 - Development Across Lifespan
- CDFS 2100 - Intro Fld of Chld Dev& Fam St
- CDFS 2101 - Family/Global Perspective
- CDFS 3401 - Parent Child Relations
- CDFS 4220 - Understand Chldn/Behv/Guide
- CDFS 4223 - Home/School/Comm Engage

## Child Life Specialist Concentration (22 hours)

Many upper-division (3000/4000-level) courses have prerequisites that must be met prior to being permitted to register for those courses. You are responsible for knowing and satisfying all course prerequisites. Some (not all) prerequisites are listed below. For specific information about courses and the prerequisites they may have, please view course descriptions at: <http://www.memphis.edu/ugcatalog/coursedescrip/index.php>.

Many courses also require permits from the department that teaches the course. For example, SWRK and CJUS courses will always need permits from those respective departments. University College staff cannot issue permits for courses taught in other departments. ALL 3000/4000 level classes taught by the College of Business (ACCT, ECON, FIR, MGMT, MKTG) require a permit; students must request a permit online at: <https://fcbacad.memphis.edu/ugad/permits/>

- CDFS 4240 - Hospitalized Children and Their Families
- CDFS 4260 - Child Life: Theory and Practice
- CDFS 4300 - Play/Therapeutic Interventions
- PSYC 4513 - Psychology of Grief/Loss
- HIST 4863 - History/Childhood in America
- CLAS 3021 - Medical Terminology
- SOCI 3311 - Social Statistics OR
- EDPR 4541 - Fundmntl/Applied Stat Method OR
- HCL 4010 - Healthcare Stats/Research

## Guided Electives & Practicum (16 hours)

### Group A: Family Dynamics - (Choose one)

- ANTH 3511 - Culture/Kin/Family
- SOCI 3831 - Marriage and Family
- UNIV 3535 - Family Communication

### Group B: Diverse Interactions - (Choose one)

- SPED 2000 - Foundation/Exceptional Learn
- SOCI 3422 - Racial/Ethnc Minorities

- COUN 4621 - Human Interactions

**Group C: Early Childhood - (Choose one)**

- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch
- ECED 4540 - Pln/Fct Infant/Toddler Dev
- EDPR 4301 - Early Child Dev/Begin Teacher

**Group D: Educational Context - (Choose one)**

- ENGL 3401 - Children's Literature
- ART 3411 - Art for Children
- CDFS 4101 - Int Curr for Early Learners

**Group E: Field Experience (4 hours)**

- UNIV 4110 - Internship

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Electives (25-31 hours)

Electives will be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Disability Studies and Rehabilitation Services, (B.P.S.)

Advising guidelines for the Bachelor of Professional Studies (B.P.S.) degree with a concentration in Disability Studies and Rehabilitation Services are designed for students seeking to be academically and professionally grounded in issues faced by individuals seeking disability services. Students will also be exposed to the theme of employment – including vocational adjustment and appropriate job placement – and independent living outcomes as reaffirmed in the Rehabilitation Act Amendments of 1992. Rehabilitation depends heavily upon communication between both the consumer and professional and among various professionals; consequently, communication will be stressed, as well as an understanding of the potential influence of cultural diversity and individual lifestyle choices. Courses will also enable students to understand the methods used in disability services to solve consumer problems

and utilize available resources. Finally, a well-supervised field experience component will provide students the opportunity to integrate classroom principles and develop entry-level skills in a work setting.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Coordinated Study (58-59 hours)

## Professional Core (19 hours)

- COUN 4901 - Princ/Tech/Rehab Counseling
- COUN 4913 - Medical/Psyc Aspects/Rehab
- COUN 4921 - Vocational Dev/Occupation Info
- SWRK 3902 - Human Behavior/Soc Envrnmnt
- SWRK 3903 - Social Work Practice I

### Choose One:

- SWRK 2010 - Introduction to Social Work
- SWRK 2911 - Soc Response to Human Need

## Statistics and Research Methods (3 hours)

### Statistics

- PSYC 3010 - Research and Statistics I
- SOCI 3311 - Social Statistics
- PSYC 3020 - Research and Statistics II
- SOCI 3322 - Methods of Social Research

## Rehabilitation Delivery (12 hours)

- COUN 4611 - Intro to Counseling
- COUN 4781 - Strategy/Crisis Intervention
- COUN 4783 - Alcohol/Drug Abuse Services
- PADM 4207 - Health Politics/Policy



- PETE 3308 - Exceptional Learner Phys Ed
- PSYC 3512 - Health Psychology
- SLS 3905 - Leisure/Recr Disabilities
- THEA 4503 - Creative Dramatics

## Management Services (9 hours)

- ACCT 2010 - Fundamentals of Acct I
- MGMT 3215 - Management of Human Resources
- PADM 3601 - Public Admin
- PADM 4226 - Intro Nonprofit Organizations
- PADM 4227 - Issues/Nonprofit Admin

## Communications (6 hours)

### Professional Communications (3 hours)

- MGMT 3510 - Business Communications
- ENGL 3601 - Technical and Profess Writing
- ENGL 3604 - Persuasive Writing
- COMM 4011 - Communication in Organizations

### Interpersonal Communications (3 hours)

- COMM 4012 - Health Communications
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- COUN 4621 - Human Interactions

## Development and Aging (6 hours)

- EDPR 2111 - Development Across Lifespan
- HMSE 4305 - Problems/Health Sport Science
- LEAD 3350 - The Adult Learner
  - SOCI 4923 - Social Institutions and the Life
- SOCI 3112 - Contemporary Social Problems
- SOCI 4541 - Sociology of Aging
- SOCI 4851 - Medical Sociology
- SOCI 4852 - Sociology of Mental Illness
- UNIV 4527 - The Developing Adult

## Internship (3 hours)

- UNIV 4110 - Internship

## College Requirements (9 hours)

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Early Care and Learning, (B.P.S)

The Early Care and Learning (ECL) emphasis provides a foundation for a career in working with young children (0-4) in early care and education and other applied settings.

Students who choose the ECL emphasis are expected to develop knowledge and skills in child development and learning, observation and assessment, pedagogy and research through classroom and field experiences. Students will be prepared for employment in a discipline working with children and families, and may pursue graduate training that leads to careers in education, academia, research, health professions, or social work.

For information on careers in this and other disciplines students should consult the Career Services Office located on the 4th Wilder Tower, 678-2239.

**This Program DOES NOT lead to teacher licensure. Students interested in gaining a teaching license should contact the College of Education at 678-2728 or visit their website at: <http://www.memphis.edu/tep/>**

## General Education (35-41 hours)

Students must complete the 35-41 hours of general education requirements as outlined in the attached general education grid. Please refer to the General Education website at <http://www.memphis.edu/ugcatalog/graduation/gened.php> for specific requirements. Students with majors in University College are exempt from the History general education requirements if they completed one year of History in high school

## Coordinated Study (51 hours)

Many upper-division (3000/4000-level) courses have prerequisites that must be met prior to being permitted to register for those courses. You are responsible for knowing and satisfying all course prerequisites. For specific information about courses and the prerequisites they may have, please view [Course Descriptions](http://www.memphis.edu/ugcatalog/coursedescrip/) at: <http://www.memphis.edu/ugcatalog/coursedescrip/>. Some (not all) pre-requisites are listed below.

Many courses also require permits from the department that teaches the course. For example, SWRK and CJUS courses will always need permits from those respective departments. University College staff cannot issue permits for courses taught in other departments. **ALL 3000/4000 level classes taught by the College of Business (ACCT, ECON, FIR, MGMT, MKTG) require a permit; students must request a permit online at: <https://fcbeacad.memphis.edu/ugad/permits/>**

## Child Development & Family Studies Core (18 hours)

- EDPR 2111 - Development Across Lifespan
- CDFS 2100 - Intro Fld of Chld Dev& Fam St
- CDFS 2101 - Family/Global Perspective
- CDFS 3401 - Parent Child Relations
- CDFS 4220 - Understand Chldn/Behv/Guide
- CDFS 4223 - Home/School/Comm Engage

## Early Care and Learning Core (36 hours)

**\*University college students MUST be at Junior standing (60 credits) in order to enroll in these College of Education courses.**

- CDFS 3410 - Soc Emotion Lrng Early Child
- UNIV 2110 - Field Experience
- CDFS 4101 - Int Curr for Early Learners
- CDFS 4230 - Math/Science Early Learning
- ICL 4001 - Teaching/Diverse Environment
- SPED 2000 - Foundation/Exceptional Learn
- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch
- ECED 4500 - Emergent Literacy/Lang Dev
- ECED 4540 - Pln/FcIt Infant/Toddler Dev
- ECED 4515 - Teach/Lrng Erly Chld Ed
- UNIV 4110 - Internship

## Working with Families Core (3 hours)

- CDFS 4910 - Ethics in Early Care and Learning

## University College Requirements (9 hours)

### Thematic Studies (6 hours)

### Senior Project (3 hours)

- UNIV 4995 - Senior Project (Completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Early Intervention Specialist, (B.P.S.)

The Bachelor of Professional Studies in Early Intervention (ages 0-2) focuses on recognizing the uniqueness of the provision of instruction and/or service coordination in the field of Part C the Federal IDEA legislation for early intervention (ages 0-2). Students will learn how to promote caregiver-child interaction by assisting families to adapt routines and activities to support children's (ages 0-2) learning and interaction. In addition, students will be introduced to adult learning approaches to support caregivers and understand how cultural diversity affects family interactions and practices.

This program is designed to reflect professional standards set forth by the Council for Exceptional Children Division of Early Childhood. These standards are critical indicators of program quality and include:

- Federal IDEA Part C Requirements;
- Typical and atypical patterns of infant and toddler development and learning in all areas;
- Functional assessment of development across domains;
- Developmental disabilities in the birth-to-three population; and
- Specialized instructional strategies to help young children (ages 0-2) learn.

This program prepares students to take the Tennessee Early Intervention Credential exams required to provide Developmental Therapy in the State of Tennessee.

This program DOES NOT lead to teacher licensure. Students interested in gaining a teaching license should contact the College of Education at 678-2728 or visit their website at: <http://www.memphis.edu/tep/>.

## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Child Development & Family Studies Core (18 hrs)

- EDPR 2111 - Development Across Lifespan
- CDFS 2100 - Intro Fld of Chld Dev& Fam St
- CDFS 2101 - Family/Global Perspective
- CDFS 3401 - Parent Child Relations
- CDFS 4220 - Understand Chldn/Behv/Guide
- CDFS 4223 - Home/School/Comm Engage

## Early Intervention Specialist (12 hrs)

- SPED 2000 - Foundation/Exceptional Learn
- SPED 4111 - Intro/Appl Behav Analysis
- SWRK 2010 - Introduction to Social Work
- SWRK 2911 - Soc Response to Human Need

## Early Intervention Specialist Core Supportive Competencies (12 hrs)

- ECED 4540 - Pln/Fcft Infant/Toddler Dev
- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch
- SWRK 3902 - Human Behavior/Soc Envrnmnt

Requires Dept permit, SWRK 2010 or SWRK 2911 and BIOL 1010/BIOL 1011

- UNIV 3535 - Family Communication

## Guided Electives & Field Experience (13 hrs)

### Group A: Family Dynamics (choose one course)

- ANTH 3511 - Culture/Kin/Family
- LEAD 3350 - The Adult Learner
- SOCI 3831 - Marriage and Family
- SWRK 3903 - Social Work Practice I
- SWRK 3904 - Social Work Practice II

### Group B: Diverse Interactions (choose one course)

- SOCI 3422 - Racial/Ethnc Minorities
- COUN 4621 - Human Interactions
- SOCI 4442 - Sociology of Poverty

## Group C: Educational Context (choose one course)

- CDFS 4101 - Int Curr for Early Learners
- ENGL 3401 - Children's Literature
- SPED 3410 - Disorders of Language
- SWRK 4937 - School Social Work

## Field Experience: (4hrs)

- UNIV 4110 - Internship

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Emergency Management, (B.P.S.)

The interdisciplinary Emergency Management concentration is designed for students with a diversity of backgrounds and interest in applying that background to emergency management, community resilience to disaster, environmental hazards mitigation, emergency management response, and business continuity/disaster recovery. It will address the following critical knowledge elements: a) the physical and social dimensions of disasters through combining knowledge from various physical, social, and applied disciplines, b) the intersection of public policy to disaster risk, response, and mitigation, c) the intersection of the private, nonprofit, and governmental sectors and how this effects emergency preparedness, mitigation, and recovery, d) sustainable development, planning for and response

to extreme events and change in our physical and human landscapes; and e) communication dynamics and persuasive communication in emergencies.

## General Education (35-41 hours)

Students must complete the 35-41 hours of general education requirements as outlined in the attached general education grid. Please refer to the General Education website at <http://www.memphis.edu/ugcatalog/graduation/gened.ph> for specific requirements. Students with majors in University College are exempt from the History general education requirements if they completed one year of History in high school

## Coordinated Study (33 hours)

### Professional Core (12 hours)

- EMGT 3100 - Seminar in Emergency Management
- EMGT 4000 - Internship
- or
- CJUS 4100 - Ind Dir Studies
- or
- ESCI 4621 - Investigations In GEOG

### Two from the Following:

- PADM 3601 - Public Admin
- CJUS 4126 - CJUS Admin and Mgmt
- PADM 3611 - Disaster Planning/Control
- PADM 3615 - Community Risk Reduction
- ESCI 4261 - Plan Sustainable Cities/Region
- MGMT 3110 - Organization and Mgmt
  - MKTG 3130 - Strategic Management

### Hazard/Risk Management (9 hours)

- ESCI 4251 - Environmental Hazards
- CJUS 4190 - Terrorism Soc/Legl Prsp
- ESCI 3131 - Severe Weather
  - ARCH 4551 - Site and Environmental Planning
- COMM 4211 - Special Topics In Communication Studies

## Human Systems (9 hours)

- ANTH 4510 - Health/Culture/Environ Justice
- ANTH 4511 - Medical Anthropology
- COMM 3322 - Theories of Persuasion
  
- COMM 4410 - Conflict Resolution and Negot
  
- or
  
- COMM 4380 - Communication and Conflict
  
- SOCI 3401 - Social Inequality
- SOCI 3701 - Individual and Society
- PADM 4221 - Issues/Urban Admin
- PADM 4207 - Health Politics/Policy

## Analysis (3 hours)

- CJUS 3129 - Statistical Methods/CJUS
- ESCI 4521 - Quantitative Methods
- ESCI 4525 - Adv Geographic Info Science
- PADM 4101 - Political Statistics
- POLS 4101 - Political Statistics
- SOCI 3311 - Social Statistics

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (Completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## **Fashion Design, (B.P.S)**

The Fashion Design program prepares students for careers in Fashion Design for the Apparel Industry. The curriculum fosters creative expression in all aspects of Fashion Design, including fashion sketching, creative design, computer applications, draping, and pattern drafting. With this, students learn to balance hand-making and digital skills with an integrated approach to design. The program is structured to challenge and inspire students by incorporating artistic, technical, and theoretical elements into a realistic approach to the Fashion Design Industry.



## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Visual Merchandising and Design Core (12 hours)

- MRCH 2000 - Visual Imaging for Fashion and Merchandising
- MRCH 2010 - Textiles
- MRCH 3215 - Textiles Applications
- MRCH 3000 - Color and Basic Design Studies and Applications

## Fashion Design Concentration (24 hours)

- MRCH 2005 - Intro to the Fashion Industry
- MRCH 2200 - Fashion Sketching and Illustration for Design
- MRCH 3075 - Basic Industry Sewing and Construction
- MRCH 3100 - Pattern Drafting I
- MRCH 3300 - Draping Techniques
- MRCH 3400 - Computer Aided Fashion Drawing and Design
- MRCH 3450 - Computer Patternmaking
- MRCH 4000 - Advanced Sewing Techniques
- MRCH 4400 - Pattern Drafting II
- MRCH 4500 - Advanced Computer Patternmaking
- MRCH 4550 - Fit Analysis
- MRCH 4575 - Sourcing and Technical Design

## Guided Electives (18 hours)

Choose any remaining courses not taken from Fashion Design Concentration or appropriate upper division courses from Art, Theater, etc. Courses from other departments should be discussed with your advisor/program coordinator before registering to determine appropriateness.

## Senior Year Requirements (6 hours)

The senior collection is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior collection is intended to fuse all the academic areas that comprise the student's understanding of developing a fashion collection into a relevant example of scholarship to be showcased down the runway. Students will complete a collection of their choice with approval of their senior collection instructor. The senior collection is completed during a student's final semester.

- MRCH 4600 - Senior Seminar

- UNIV 4110 - Internship

## Thematic Studies (6 hours)

University College thematic studies course(s) are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Review a complete list of courses: [http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

- MRCH 4205 - Behavioral Sci Aspects Clothng
- MRCH 3050 - Costume History

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Electives (10-16 hours)

Electives will be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Minimum Requirements for Graduation

- Students must complete at least 60 hours from a 4-year institution.
- Students must complete at least 42 hours of upper-division credit (3000 or 4000-level).
- Students must complete at least 30 of the last 60 hours through the University of Memphis.
- Students must complete at least 9 graded hours in the major at the University of Memphis.

## Fashion Merchandising (B.P.S.)

Industry overview, financial planning and purchasing, visual presentation, color selection and coordination, textile identification, clothing characteristics, entrepreneurship and personal and professional development are all program components in this concentration.

## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Visual Merchandising and Design Core (12 hours)

- MRCH 2000 - Visual Imaging for Fashion and Merchandising
- MRCH 2010 - Textiles
- MRCH 3215 - Textiles Applications
- MRCH 3000 - Color and Basic Design Studies and Applications

## Fashion Merchandising Concentration (24 hours)

- MRCH 2004 - Tech Skills for Merchandising
- MRCH 2005 - Introd to the Fashion Industry
- MRCH 2106 - 3D Visual Merchandising
- MRCH 3206 - Merchandising Systems
- MRCH 3600 - Consumer Engagement in the Digital Era
- MRCH 3650 - Merchandise Buying
- MRCH 4560 - Trend Analysis and Styling Concepts
- MRCH 4575 - Sourcing and Technical Design

## Approved Minor (18 hours)

MKTG 3010 and MKTG 3140 plus 12 additional hours in Marketing for the Marketing Management Minor.

## Senior Year Requirements (6 hours)

The senior collection is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior collection is intended to fuse all the academic areas that comprise the student's understanding of developing a fashion collection into a relevant example of scholarship to be showcased down the runway. Students will complete a collection of their choice with approval of their senior collection instructor. The senior collection is completed during a student's final semester.

- MRCH 4600 - Senior Seminar
- UNIV 4110 - Internship

## Thematic Studies (6 hours)

University College thematic studies course(s) are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Review a complete list of courses: [http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

- MRCH 4205 - Behavioral Sci Aspects Clothng
- MRCH 3050 - Costume History

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

**May be chosen to bring the total number of hours to 120 with a minimum of 42 upper division hours.**

## Minimum Requirements for Graduation

- Students must complete at least 60 hours from a 4-year institution.
- Students must complete at least 42 hours of upper-division credit (3000 or 4000-level).
- Students must complete at least 30 of the last 60 hours through the University of Memphis.
- Students must complete at least 9 graded hours in the major at the University of Memphis.

## Health Services (B.P.S.)

Students following guidelines for [Health Services](#) are interested in the helping professions. This curriculum will prepare students for a wide range of health care positions in hospitals, health departments, health agencies, research facilities, schools and industry. This program is also for experienced health care professionals who have completed non-baccalaureate programs in health care specialties such as medical laboratory technology, respiratory therapy, radiological technology, and nursing who will build upon their training and experience by taking courses in such areas

## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Professional Core (30 hrs)

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II

Take one:

- MGMT 3110 - Organization and Mgmt
- HCL 3000 - Healthcare Leadership
- HETH 4211 - Comm Healthcare Lead/Mgmt

Human Resources Management (Take 1)

- MGMT 3215 - Management of Human Resources
- HCL 4030 - Healthcare Human Resources

Financial (Take 1)

- FIR 3410 - Financial Management
- MRCH 4300 - Family Resource Management
- HCL 3010 - Healthcare Financial Mgmt

Professional Writing (Take 1)

- ENGL 3601 - Technical and Profess Writing
- PBRL 3421 - Public Relations Writing
- MGMT 3510 - Business Communications
- HCL 3050 - Prof Writing Healthcare

Research Methods (Take 1)

- SOCI 3311 - Social Statistics
- HCL 4010 - Healthcare Stats/Research
- HETH 4210 - Healthcare Research Methods

Health Communication (Take 1)

- COMM 3012 - Health Communication
- HCL 3020 - Healthcare Informatics
  - COMM 4211 - Public Health Campaigns

Policy and Social Context (Take 1)

- HCL 4000 - Health Policy Issues
- HETH 4212 - Trends/Issues in Healthcare
- HLSC 4530 - Epidemiology
- HCL 4020 - Law/Ethics of Healthcare
- PADM 4226 - Intro Nonprofit Organizations

Health Care Systems (Take 1)

- HCL 3040 - U S Health System
- HETH 4213 - Community Health/Iss/Serv
- HLSC 2200 - Introduction to Public Health/Health Studies

## Health Care Specialty Guided Elective (18 hrs)

(Choose 6 courses or any courses from above not used; MUST have 12 hours of upper division courses from this section)

- COBH 4707 - International Health/Prob/Iss

- CDFS 2101 - Family/Global Perspective
- HCL 3020 - Healthcare Informatics
- HCL 3040 - U S Health System
- HCL 4020 - Law/Ethics of Healthcare
- HCL 4040 - Business Principles/Healthcare
- HMSE 2102 - First Aid and CPR
- HLSC 2100 - Wellness Concepts Practice
- HLSC 2200 - Introduction to Public Health/Health Studies
- PHIL 3514 - Biomedical Ethics
- NUTR 2202 - Nutrition
- PSYC 3507 - Alcohol/Drugs/Behavior
- PSYC 3512 - Health Psychology
- SOCI 4442 - Sociology of Poverty
- SOCI 4851 - Medical Sociology
- SW 3170 - Family Caregiving
- UNIV 4110 - Internship

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Electives (22-28 hrs)

Electives may be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Experiential Learning Credit

Experiential Learning Credit may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or noncollege instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area. Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures described above. More detailed information about procedures may be obtained from the individual colleges.

## Human Services, (B.P.S.)

Students in Human Services are expected to develop a philosophical orientation to the human condition; to enlarge their understanding of social structures, values and norms; to study human growth and development; and to become informed about social change and social and bureaucratic organizations. Students in Human Services will take courses from such departments as Counseling and Personnel Services, Sociology and Social Work, Psychology, Management, and Special Education.

### General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour American Heritage General Education Program requirement; otherwise, students will have to meet the American Heritage requirement.

### Coordinated Study (51 hours)

#### Professional Core

##### Group A Basic Core (12 hours)

- COUN 4611 - Intro to Counseling
- COUN 4621 - Human Interactions
- SWRK 2010 - Introduction to Social Work
- SWRK 2911 - Soc Response to Human Need

##### Group B Professional Writing (3 hours)

Take 1:

- ENGL 3601 - Technical and Profess Writing
- ENGL 3604 - Persuasive Writing
- MGMT 3510 - Business Communications \*(Prerequisite: MIS 2749 or equivalent course)

##### Group C Rehabilitation/Social Intervention (6 hours)

Take 2:

- COBH 4707 - International Health/Prob/Iss
- CJUS 4152 - Drug Misuse and Abuse
- COUN 4781 - Strategy/Crisis Intervention
- COUN 4783 - Alcohol/Drug Abuse Services
- COUN 4901 - Princ/Tech/Rehab Counseling
- COUN 4913 - Medical/Psyc Aspects/Rehab

- COUN 4921 - Vocational Dev/Occupation Info
- HETH 4212 - Trends/Issues in Healthcare
- HETH 4213 - Community Health/Iss/Serv
- PSYC 3507 - Alcohol/Drugs/Behavior (Prerequisite: PSYC 1030)
- PSYC 3512 - Health Psychology
- SLS 3905 - Leisure/Recr Disabilities
- SOCI 4852 - Sociology of Mental Illness
- SW 3170 - Family Caregiving
- SWRK 3920 - Soc Welfare Policy/Programs (Theory & Application)
- UNIV 3534 - Theatre & Therapy

## Group D Support Courses

Twenty-one semester hours must be taken from the following groups (take no more than six hours in any one discipline):

- ANTH 4531 - Alcohol/Drugs/Culture
- COMM 4373 - Interracial Communication
- COMM 4410 - Conflict Resolution and Negot
- EDPR 3302 - Child/Adolescent Development
- PADM 3601 - Public Admin
- PADM 4226 - Intro Nonprofit Organizations
- PSYC 3102 - Abnormal Psychology
- PSYC 3103 - Child Psychology
- SOCI 3401 - Social Inequality
- SOCI 3501 - Sociology of Deviant Behavior
- SOCI 4420 - Racial Inequality
- SOCI 4442 - Sociology of Poverty
- SOCI 4541 - Sociology of Aging
- SOCI 4852 - Sociology of Mental Illness
- UNIV 4527 - The Developing Adult

## Group E Internship (3 hours)

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (Completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.



## Possible Minors

Students pursuing a B.P.S. with a concentration in Human Services may be able to complete a minor in Sociology, Psychology, or Social Work by taking a minimal number of additional classes depending on courses selected for the major. Check with your advisor or the *Undergraduate Catalog* regarding specific minor requirements.

\*Junior standing, prerequisites, or permission of instructor required. Please check the University of Memphis *Undergraduate Catalog*.

## Information Technology (B.P.S.)

The Bachelor of Professional Studies with a major in Professional Studies and a concentration in Information Technology can be gained completely online through the State of Tennessee's TN eCampus Program. The program is designed (1) to promote understanding of the nature of and fundamentals of administrative leadership in the technological fields; (2) to allow students to reflect upon national and international technological development and communication and the significant social and cultural issues raised in those contexts; and (3) to promote skills in information systems, statistical methods, formal and interpersonal communication, including team and organizational relations.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Professional Core and Information Technology Concentration (36 hrs)

### A. Administration and Supervision (Choose 1 course)

- PADM 3601 - Public Admin
- TECH 4381 - Principles of Supervision
- MGMT 3610 - Princ Mgmt/Organ Behav
- LIST 4093 - Special Topics/Leadership

### B. Organizational Systems (Choose 1 course)

- PM 4120 - Organization Theory and Behav
- PADM 4226 - Intro Nonprofit Organizations

### C. Statistical Methods (Choose 1 course)

- PBRL 4410 - Public Relations Research
- SOAA 3350 - Social Statistics
- SOCI 4510 - Intro to Social Research

### D. Written Communications (Choose 2 courses)

- ENGL 3134 - Computer/Writing/Lit
- ENGL 3250 - Professional Comm
- PBRL 3421 - Public Relations Writing

### E. Team & Organizational Relations (Choose 1 course)

- COMM 3010 - Integrated Corp Comm
- COMM 4410 - Conflict Resolution and Negot
- ORCO 3240 - Organizational Comm

F. International Context (Choose 1 course)

- JOUR 4712 - Media and Cultures
- POLI 4350 - International Law
- PS 3510 - Internl Political Economy
- POLS 3010 - Comparative Politics
- SPAN 3550 - Latin America Country& People

G. Information Technology Concentration

1. Management Information Systems Overview (choose 1 course)

- PTMA 3020 - Managing Information Tech
- MGMT 3220 - Mgmt of Info Systems

2. Software

- UNIV 4706 - Managing Software Development

3. Files/Operativng Systems (Choose 1 course)

- INFS 3700 - Systems Analysis and Design
- COMP 3050 - Programming Languages

4. Database Management (Choose 1 course)

- CSCI 3222 - Database Mgmt System
- UNIV 4708 - Business Intelligence

5. Networks (choose one)

- CSCI 4017 - Intro to Information Assurance
- INFS 4900 - Business Data Communications

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Elective (34-40 hrs)

Students must have enough lower or upper-division elective courses (34-40 hours) to reach a minimum of 120 total earned hours required for graduation. Such electives may typically be offered by any department at the University of Memphis.

## Experiential Learning Credit

Experiential Learning Credit may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or noncollege instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area. Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures described above. More detailed information about procedures may be obtained from the individual colleges.

## International Organizational Leadership (B.P.S.)

The Bachelor of Professional Studies with a major in Professional Studies and a concentration in International Organizational Leadership can be gained completely online through the State of Tennessee's TN eCampus Program. The program is designed (1) to promote understanding of the nature of bureaucratic organizations and the fundamentals of administrative leadership; (2) to allow students to reflect upon national and international organizational context and upon significant social and cultural issues raised in those contexts; and (3) to promote skills in formal and interpersonal communication, including sensitivity to international issues and cultural diversity that have an impact upon the quality of work.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Professional Core and Organizational Leadership Concentration (36 hrs)

### A. Administration and Supervision (Choose 1 course)

- PADM 3601 - Public Admin
- TECH 4381 - Principles of Supervision
- MGMT 3610 - Princ Mgmt/Organ Behav
- LIST 4093 - Special Topics/Leadership

### B. Organizational Systems (Choose 1 course)

- PM 4120 - Organization Theory and Behav
- PADM 4226 - Intro Nonprofit Organizations

### C. Statistical Methods (Choose 1 course)

- PBRL 4410 - Public Relations Research
- SOAA 3350 - Social Statistics

- SOCI 4510 - Intro to Social Research

D. Written Communications (Choose 2 courses)

- ENGL 3134 - Computer/Writing/Lit
- ENGL 3250 - Professional Comm
- PBRL 3421 - Public Relations Writing

E. Team & Organizational Relations (Choose 1 course)

- COMM 3010 - Integrated Corp Comm
- ORCO 3240 - Organizational Comm

F. International Context (Choose 1 course)

- JOUR 4712 - Media and Cultures
- POLI 4350 - International Law
- PS 3510 - Internl Political Economy
- POLS 3010 - Comparative Politics
- SPAN 3550 - Latin America Country& People

G. International Organizational Leadership (15 hrs - All courses required)

- BMGT 3600 - International Mgmt
  - POLI 4350 International Law
  - PS 3510 International Political Economy
- POLS 4508 - Theories Internatl Relations
- COMM 3560 - Intercultural Communtn

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Electives (34-40 hrs)

Students must have enough lower or upper-division elective courses (34-40 hours) to reach a minimum of 120 total earned hours required for graduation. Such electives may typically be offered by any department at the University of Memphis.

## Experiential Learning Credit

Experiential Learning Credit may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or noncollege instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area. Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures described above. More detailed information about procedures may be obtained from the individual colleges.

## Judaic Studies (B.L.S.)

Bornblum Judaic Studies explores the experience of the Jewish people within the contexts of world cultures. Non-theological in its orientation, it provides students the opportunity to study related areas, including the history of the Jewish people, the structures and politics of Jewish communities, the Hebrew and Arabic languages, and the religious, intellectual, and aesthetic traditions of the Jewish people.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Judaic Studies Coordinated Study (45 hrs)

### Group D. Interdisciplinary Electives (9 hrs-take 3)

- ARTH 4121 - Ancient Art Near East
- HIST 4272 - Modern Middle East
- HIST 4320 - Ancient Near East
- PHIL 3701 - Human and the Divine
- POLS 3102 - Religion and Politics
- SOCI 3860 - Sociology of Religion

### Group C. Upper Division Electives (15 hrs)

With the permission of the Director of Bornblum Judaic Studies, students may substitute the following courses for two courses listed under C, or they may be used as part of the electives listed below:

JDST 4700-4799

Special Topics

JDST 4990 Independent Study

Jewish Heritage (take 2 or 3)

- ENGL 4461 - Bible as Literature
- HIST 3275 - History of Jewish People
- JDST 3661 - Old Testament
- JDST 3802 - Jewish Thought II
- JDST 4671 - Jewish Literary Texts
- JDST 4801 - Jewish Mysticism
- JDST 4841 - Biblical Archaeology

Israel (take 1 or 2)

- JDST 4820 - Political History of Israel
- JDST 4830 - Israeli/Arab Conflict
- JDST 4840 - Israel/Antiquity in Modernity

## Group B. Upper Division Core (6 hrs-Take 2)

- HIST 3275 - History of Jewish People
- JDST 3601 - Judaism
- JDST 3801 - Jewish Thought I

## Group A. Lower Division Core (15 hrs)

- HEBR 1010 - Elementary Hebrew I
- HEBR 1020 - Elementary Hebrew II
- HEBR 2010 - Intermediate Hebrew I
- HEBR 2020 - Intermediate Hebrew II
- JDST 2850 - Religions of Abraham

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Electives (25-31 hrs)

## Experiential Learning Credit

Experiential Learning Credit may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or noncollege instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area. Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures described above. More detailed information about procedures may be obtained from the individual colleges.

## Law Enforcement Administration, (B.P.S)

Advising guidelines for the Bachelor of Professional Studies (B.P.S.) degree with a concentration in Law Enforcement Administration are designed for experienced law enforcement professionals who wish to further their careers by completing a program of study designed to increase their skills in management, organizational relations, and communication; their knowledge of the contexts within which law enforcement administration fits; their understanding of workplace issues that can affect productivity; and their ability to manage diversity in the workforce. In most cases, candidates for this degree program will be active duty or retired law enforcement officers at the municipal, county, or state levels, though military police and, in certain circumstances, those whose experience is in private security are eligible as well.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Coordinated Study (58 hours)

## Pre Assessed Credit (10 hours)

**A minimum of 10 hours of pre assessed experiential learning work from a POST certified training academy or Military MP training will be accepted with proper documentation. The 10 hours will be applied to the Coordinated Study.**

## Organization and Administration Required Core (12 hours)

- ACCT 2010 - Fundamentals of Acct I
- CJUS 4126 - CJUS Admin and Mgmt

or

- MGMT 3110 - Organization and Mgmt
- or
  - POLS 3601 - Public Administration
- or
- TECH 4381 - Principles of Supervision
- PBRL 3400 - Survey of Public Relations \*
- MGMT 3215 - Management of Human Resources

## Note

\*CJ 372 Mass Media and the Police, taken at the FBI National Academy and transferred from The University of Virginia, will be accepted in place of this course.

## Team Work and Organizational Relations (6 hours)

Select two courses:

- COMM 3342 - Communication and Leadership
- COMM 4011 - Communication in Organizations
- COUN 4621 - Human Interactions
- COUN 4781 - Strategy/Crisis Intervention
- LEGL 3482 - Labor Law
- MGMT 4420 - Organizational Behavior in Business

## Written Communication (3 hours)

Select one course:

- ENGL 3601 - Technical and Profess Writing
- ENGL 3604 - Persuasive Writing
- MGMT 3510 - Business Communications

## Decision-Making (6 hours)

Select one course from Group A and one from Group B

### Group A

- CJUS 3129 - Statistical Methods/CJUS
- POLS 4101 - Political Statistics
  - SOCI 3311 - Social Statistics



## Group B

- CJUS 3130 - Research Methods CJUS \*
- SOCI 3322 - Methods of Social Research

### Note

\*CJ 571 Applied Research Methods in Law Enforcement, taken at the FBI National Academy and transferred from The University of Virginia, will substitute for one of these courses.

## Professional Ethics (3 hours)

Select one course:

- CJUS 4130 - Ethical Dilemmas/CJUS
- LEGL 2400 - Legal Ethics
- PHIL 3511 - Ethical Theory
- UNIV 3540 - Ethics & Professionalism
  - Urban and Public Policy Issues

## Urban Issues (6 hours)

Select two courses\*:

- ANTH 4411 - Urban Anthropology
- ANTH 4412 - Neighborhood Development
- ESCI 3451 - Intro/Urban Planning
- POLS 4222 - Urban Politics
- SOCI 3112 - Contemporary Social Problems
- SOCI 4631 - Cities in Change

### Note

\*CJ 360 Overview of Criminal and Community Behavior, taken at the FBI National Academy and transferred from The University of Virginia, will substitute for one of these courses.

## Public Policy Issues (6 hours)

Select two courses:

- CJUS 3226 - Police in America
- LEGL 3487 - Admin Law/Procedure
- POLS 3213 - Intro to Public Policy
  - POLS 4221 - Urban Administration

- SOCI 4842 - Sociology of Occupations and Professions

## Social Issues (6 Hours)

Select one course:

- COMM 4373 - Interracial Communication
- SOCI 3422 - Racial/Ethnic Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 4460 - Black/White Women in South

## Behavioral Issues (3 hours)

Select one course\*:

- CJUS 3541 - Criminology
- PSYC 3102 - Abnormal Psychology
- PSYC 3106 - Social Psychology
- PSYC 3507 - Alcohol/Drugs/Behavior
- SOCI 3701 - Individual and Society

## Note

\*CJ 462 Applied Criminal Psychology, taken at the FBI National Academy and transferred from The University of Virginia, will substitute for one of these courses.

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (Completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Legal Studies, (B.P.S.)

In the Legal Studies Program, students acquire the knowledge and skills required to provide substantive legal services under the supervision of an attorney. Only licensed attorneys are permitted to practice law. However, they maximize efficiency and productivity by adding qualified paralegals and legal assistants to their support staff. Not only are paralegals integral to law firms, but their unique skill sets are becoming increasingly vital to corporations, government agencies, state and federal courts, law enforcement, health care organizations, non-profits, educational institutions, and a wide range of other professional settings.

The program offers a Bachelor of Professional Studies degree (BPS) with a concentration in Legal Studies. The core curriculum emphasizes four correlated disciplines: (1) theory, process, application, and ethics of law; (2) research and investigation; (3) law-related technologies, and (4) professional decorum and communication skills. The program is designed to equip students for employment as essential support staff for licensed attorneys. It also provides an excellent academic foundation for students aspiring to later attend law school.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Coordinated Study (Major) (54 hours)

No more than 15 hours of the Legal Studies Professional Core may be satisfied through transfer credit.

## Legal Studies Professional Core\*\* (30 hours)

- LEGL 2400 - Legal Ethics
- LEGL 2410 - Intro to Law
- LEGL 3150 - Legal Research/Writing I \*
- LEGL 3410 - Contracts Commercial Law
- LEGL 3420 - Torts
- LEGL 3440 - Civil Procedure
- LEGL 4150 - Legal Research Writing II
- LEGL 3484 - Bankruptcy Practices
- LEGL 3486 - Criminal Law & Procedure
- UNIV 4110 - Internship \*\*

### Note

\* Students must complete LEGL 2400, LEGL 2410, and LEGL 3150 with a grade of C- or better before enrolling in any upper division (3000-4000 level) LEGL courses.

\*\* A permit is required to enroll in UNIV 4110 - Internship. The program coordinator approves internships and issues permits. In order to be eligible, students must have earned (1) ninety credit-hours and (2) a grade of C- or better in both LEGL 3150 - Legal Research/Writing I and LEGL 4150 - Legal Research Writing II. The internship requires students to perform 150 clock-hours of substantive legal work within a professional legal environment. Although the academic advisors and the program coordinator are available to assist however possible, it is each student's responsibility to find, apply for, and secure his/her own internship prior to seeking a permit for UNIV 4110. Students cannot transfer credit for internships from other schools or programs unless the student and the internship both meet UM's Legal Internship standards, as determined by the program coordinator. For more information and related forms and documents, please visit [www.memphis.edu/univcoll/forms.php](http://www.memphis.edu/univcoll/forms.php).

## Law-Related Electives (12 hours)

- LEGL 3400 - Estates and Probates
- LEGL 3430 - Business Associations
- LEGL 3481 - Family Law
- LEGL 3482 - Labor Law
- LEGL 3485 - Real Estate Practices
- LEGL 3487 - Admin Law/Procedure
- LEGL 4200 - Healthcare Liability
- LEGL 4300 - Immigration Law
- POLS 4709 - Mock Trial \*

### Note

\* Mock trial is a specialty course offered by the Political Science Department. It is limited to students who audition and are selected for the UM Mock Trial team, which sometimes travels for regional competitions. Eligible students may take the course twice for a total of six credit hours, but only in consecutive semesters (fall and then spring). For more information on permits, auditions, requirements, and offerings, please contact the Political Science Department or visit [http://www.memphis.edu/polisci/mock\\_trial.htm](http://www.memphis.edu/polisci/mock_trial.htm).

## Interdisciplinary Electives (12 hours)

Legal Studies students must also take at least 12 hours (four classes) of Interdisciplinary Electives. This course group is meant to offer students the freedom to shape their own learning experience while still adhering to a central theme of modern legal systems in society.

Students seeking to enroll in courses outside of University College must obtain the appropriate permits from the department offering the course. Note that all upper-division courses offered by the Fogelman College of Business and Economics require a permit (3000 or 4000-level ACCT, ECON, FIR, MGMT, MKTG). To request a permit for courses at Fogelman College, please visit [fcbeacad.memphis.edu/ugad/permits](http://fcbeacad.memphis.edu/ugad/permits). Many upper-division courses in other departments also have prerequisites or permit restrictions. Students are responsible for knowing and satisfying all course requirements prior to enrollment. For specific information about course descriptions and prerequisites, please see the Undergraduate Catalog, which is available online at [www.memphis.edu/ugcatalog/coursedescrip/index.php](http://www.memphis.edu/ugcatalog/coursedescrip/index.php).

\*Legal Studies Students may receive degree credit for either LEGL 3485 - Real Estate Practices or FIR 4310 - Real Estate Law, but not both.

- ACCT 3011 - Business Law
- CJUS 3426 - Corrections in America
- CJUS 3510 - Law and Society
- CJUS 3521 - Constitutional Crmnl Procedure
- CJUS 4130 - Ethical Dilemmas/CJUS
- CJUS 4170 - Prevention/Deterrence Crime
- CJUS 4520 - Substantive Criminal Law
- CJUS 4531 - Issues/Constitutional Rights
  - COMM 4812 - Communications Law in Perf. Arts
- FIR 3310 - Real Estate Principles
- FIR 4011 - Retirement and Estate Planning
- FIR 4310 - Real Estate Law \*
- HIST 3840 - U S Constitutional History
- JRSM 4700 - Media Law
- MGMT 3215 - Management of Human Resources
- PADM 3601 - Public Admin
- PADM 4221 - Issues/Urban Admin
- PHIL 3411 - Contemporary Moral Problems
- PHIL 3511 - Ethical Theory
- PHIL 3514 - Biomedical Ethics

- PHIL 4551 - Social and Political Philosophy
- POLS 3402 - Legal/Political Thought Modern
- POLS 4200 - Environmental Law/Policy/Regulation
- POLS 4211 - Const Law/National Powers
- POLS 4212 - Const Law Civil Liberty
- POLS 4222 - Urban Politics
- POLS 4405 - Origin/Dev Amer Pol Thought
- POLS 4415 - African-Am Pol Thought to 1900
- POLS 4416 - African-Am Pol Thought from 1900
- POLS 4504 - International Law
- SOCI 3541 - Criminology

## University College Requirements

### Thematic Studies (6 hours)

### Senior Project (3 hours)

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Experiential Learning Credit

Students may be granted credit for college-level knowledge related to their major area of study that they have gained from work experience, life experience, or non-college instruction. Students who would like an assessment of such learning must prepare a portfolio that describes and documents their learning experience. Portfolios are assessed by faculty who teach in the students' field of study.

Assessment by Portfolio is reserved for knowledge and competencies that do not readily fit into the Credit by Examination procedures.

For more information please visit the Experiential Learning website at

[http://www.memphis.edu/innovation/elc/experiential\\_learning.php](http://www.memphis.edu/innovation/elc/experiential_learning.php)

## **Manufacturing Technology Management, (Lambuth Campus Only) (B.P.S)**

The Bachelor of Professional Studies degree (BPS) with a concentration in Manufacturing Technology Management offers career and advancement opportunities in the manufacturing industry.

The interdisciplinary focus on manufacturing supervisory skills will assist students in advancing their manufacturing careers for those already working in the industry.

Students will learn skills in project planning and evaluation, work design improvement, production control, facility design, occupational safety, and statistical quality control. In addition, they will learn principles of supervision and other management skills.

Those currently in the industry also have the opportunity to use existing work experience for college credit through Experiential Learning Credit.

## General Education (35-41 hours)

Students must complete the 35-41 hours of general education requirements as outlined in the attached general education grid. Please refer to the General Education website at <http://www.memphis.edu/ugcatalog/graduation/gened.php> for specific requirements. Students with majors in University College are exempt from the History general education requirements if they completed one year of History in high school

## Coordinated Study (54 hours)

## Concentration Requirements (24 hours)

Take 18 hours from these courses:

- TECH 3440 - Project Plan/Cost Evaluation
- TECH 4381 - Principles of Supervision
- TECH 4460 - Work Design/Improvement
- TECH 4464 - Production Control Systems
- TECH 4466 - Facility Design
- TECH 4462 - Quality Improvement
- TECH 3386 - Occupational Safety

## Plus One of the Following:

- ELC 3300 - Professional competencies for Career Advancement

or

- UNIV 4110 - Internship

## Management Services (30 hours)

## Administration and Supervision (3 hours)

*Take one course from the following group:*

- MGMT 3110 - Organization and Mgmt
- PADM 3601 - Public Admin

## Organizational Systems (3 hours)

*Take one course from the following group:*

- MGMT 3215 - Management of Human Resources
- MGMT 4420 - Organizational Behavior in Business
- PADM 4226 - Intro Nonprofit Organizations
- PSYC 3508 - Indust/Organizatnl Psyc

## Marketing and Public Relations (3 hours)

*Take one course from the following group:*

- MKTG 3010 - Principles of Marketing
- PBRL 3400 - Survey of Public Relations

## Team and Organizational Relations (3 hours)

*Take one course from the following group:*

- COMM 4011 - Communication in Organizations
- COMM 4342 - Small Group Communication
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- COUN 4621 - Human Interactions
- COUN 4781 - Strategy/Crisis Intervention

## Written Communication (3 hours)

*Take one course from the following group:*

- ENGL 3601 - Technical and Profess Writing
- ENGL 3602 - Professional Editing
- ENGL 3603 - Engineering Communications
- ENGL 3604 - Persuasive Writing
- MGMT 3510 - Business Communications

## Social & Cultural Context (3 hours)

*Take one course from the following group:*

- CJUS 4180 - Corporate/White Collar Crime
- CJUS 4235 - Security Management
- COMM 3003 - Television and Culture
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 3831 - Marriage and Family

## Political & Economic Context (3 hours)

*Take one course from the following group:*

- ACCT 3130 - Legal/Social/Political Environ
  - ECON 3411 - Economics of Social Issues
  - ECON 4130 - Government Regulation of Business
- HIST 4824 - Business History
- POLS 4510 - Politics of Global Economy
- ESCI 4430 - Economic Geography

## Technology & Culture (3 hours)

*Take one course from the following group:*

- COMM 4014 - Communication on the Internet
- HIST 3035 - Technology/Culture Am History
- JRSM 3900 - Visual Media
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (Completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## **Music & Entertainment (Lambuth Campus Only), (B.P.S)**

The [Music and Entertainment](#) (ME) degree is an interdisciplinary program fusing three areas of study: music, business, and technology. This concentration will provide students an understanding of fundamentals in commercial music and will provide them the knowledge to gain employment in the entertainment field.

## University General Education (35-41 hrs)



See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Music Core (19 hrs)

*Courses with an \* have been approved only for Lambuth Campus*

- MUTC 3701 - Theory/Musicianship I \*
- MUTC 3702 - Theory/Musicianship II \*
- MUS 1030 - Introduction to Music
- MUHL 3303 - Western Music History
- MUHL 4805 - History of Rock and Roll
  - MUAP elective-Ensemble or Applied (4 hrs)

## Entertainment Core (18 hrs)

*Courses with an \* have been approved only for Lambuth Campus*

- MUID 3704 - Recording Studio Tech/Practice
- MUID 3705 - Cont Sngwrting/Prod Techniques
- MUID 4201 - Studies in Commercial Music \*
- MUID 4701 - Music Licensing/Publishing \*
  - COMM/MUID/UNIV Elective in Entertainment
- UNIV 4110 - Internship (1-6 hrs)

## Business Core (18 hours)

- ACCT 2010 - Fundamentals of Acct I
- MGMT 3110 - Organization and Mgmt
- MKTG 3010 - Principles of Marketing
- PBRL 3400 - Survey of Public Relations

One course from:

- PBRL 3421 - Public Relations Writing
- ENGL 3601 - Technical and Profess Writing
  - Elective- 3 hours Business/Marketing/Mgmt Elective (Upper Division)

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Electives

Electives will be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Non-Profit Development and Administration, (B.P.S.)

The goal of these guidelines is to help persons understand the role of nonprofit organizations in society and to prepare them to organize, develop, and administer nonprofit organizations. Nonprofit organizations include educational, scientific, religious, and other charitable organizations, as well as private foundations, community-based organizations, professional and fraternal associations, and civic and social organizations. The guidelines are designed to serve persons who have worked, or who want to work, within the nonprofit sector as employees, or have served in the community as volunteers. Graduates may enter careers such as communications director, volunteer director, or program director for a nonprofit agency.

Objectives of the program include the study of (1) the historical and cultural context of nonprofit organizations, specifically their place within a market economy; (2) the characteristics of persons and communities served by nonprofit organizations; (3) legal, ethical, and policy issues which shape the governance, development, and operation of nonprofits; (4) relevant skills, including management of personnel, information, and finances, interpersonal communication, program evaluation, and marketing; and (5) special topics, including fundraising, philanthropy and volunteerism.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Coordinated Study (60 hours)

## Core Courses (15 hours)

- ANTH 4412 - Neighborhood Development
- or
- ANTH 3282 - American Communities

- ECON 3411 - Economics of Social Issues
- MGMT 3110 - Organization and Mgmt
- PADM 3601 - Public Admin
- PADM 4226 - Intro Nonprofit Organizations

## Context Courses

### Historical Context

Take one course:

- HIST 3274 - Modern Islamic World
- HIST 3275 - History of Jewish People
- HIST 3881 - African American History
- HIST 4831 - History American Family
- HIST 4851 - History of Women in America
- HIST 4863 - History/Childhood in America
- HIST 4871 - U S Urban History

### Social, Political, Economic Context

Take 3 courses from at least two different disciplines:

- ANTH 4411 - Urban Anthropology
- CJUS 1100 - Intro/Criminal Justice
- COMM 4381 - Senior Capstone
- COUN 4611 - Intro to Counseling
- COUN 4781 - Strategy/Crisis Intervention
- COUN 4783 - Alcohol/Drug Abuse Services
- ECON 2010 - Intro to Macroeconomics
- PHIL 3511 - Ethical Theory
- POLS 3211 - State/Local Government
- POLS 3213 - Intro to Public Policy
- POLS 4222 - Urban Politics
- POLS 4223 - Issues/Urban Politics
- SOCI 3401 - Social Inequality
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 4442 - Sociology of Poverty
- SOCI 4541 - Sociology of Aging

### Nonprofit Work Setting

Take one course:

- ANTH 4253 - Anthropology of Religion
- ARTH 4382 - Professional Practices in Museums
- ARTH 4830 - Museums in Society
- ESCI 3451 - Intro/Urban Planning
  - POLS 4221 - Urban Administration
  - SLS 3103 - Outdoor Recreation and Education for Urban America

- SLS 3205 - Area and Facility Management
- SLS 3905 - Leisure and Recreation for People with Disabilities
- SOCI 3860 - Sociology of Religion

## Skills for Administration & Community Development (21 Hours)

Take one course from each category:

### Marketing & Fund-raising

Take one course:

- FIR 4011 - Retirement and Estate Planning
- PBRL 3400 - Survey of Public Relations
- MKTG 3010 - Principles of Marketing
- MKTG 4230 - Services Marketing

### Human Resources

Take one course:

- COUN 4621 - Human Interactions
- MGMT 3215 - Management of Human Resources
- SLS 3204 - Org Analysis Sport/Leisure

### Program Evaluation

Take one course:

- ANTH 4010 - Ethnographic Methods
- COMM 3330 - Communication Research Methods
- PADM 4101 - Political Statistics
- SLS 3305 - Leisure/Recreation Prog Devlp
- SOCI 3311 - Social Statistics
- SOCI 3322 - Methods of Social Research

### Accounting

Take one course:

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II
- ACCT 3310 - Cost Accounting
- ACCT 4540 - Govt/Health/Non-Profit
- PADM 4227 - Issues/Nonprofit Admin
- SLS 3605 - Financial Management SLS

## Legal Environment

Take one course:

- ACCT 3011 - Business Law
- LEGL 2410 - Intro to Law
- POLS 3405 - Intro Law/Jurisprudence
- SLS 4205 - Legal Aspects SLM

## Communication

Take one course:

- COMM 4011 - Communication in Organizations
- COMM 4342 - Small Group Communication
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- ENGL 3601 - Technical and Profess Writing
- ENGL 3604 - Persuasive Writing
- MGMT 3510 - Business Communications

## Computer Use & Technology

Take one course:

- JRSM 3900 - Visual Media
- MIS 2749 - Foundation/Information Systems
- SLS 3005 - Computer Applctn Sport/Leisure

## Experiential Learning or Internship (6 Hours)

Any 6 hours from:

- PADM 4321 - Administrative Internship
- UNIV 3900 - Experiential Learning Adv

(See: <http://www.uc.memphis.edu/experiential.htm>)

- UNIV 4110 - Internship

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Organizational Leadership, (B.P.S.)

Organizational Leadership is designed to (1) promote understanding of the nature of organizations and the fundamentals of administrative leadership; (2) allow students to reflect upon national and international organizational contexts and upon significant social and cultural issues raised in those contexts; and (3) promote skills in formal and interpersonal communication, including sensitivity to personal issues having an impact upon the quality of accomplishment in the work place.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Professional Core: Coordinated Study (33 hours)

**A course taken in one group will not be counted in another group of the Professional Core.**

## Administration and Supervision (3 hours)

Take one course from this group:

- TECH 4381 - Principles of Supervision
- MGMT 3110 - Organization and Mgmt
- PADM 3601 - Public Admin

## Organizational Systems (3 hours)

Take one course from this group:

- MGMT 3215 - Management of Human Resources
- MGMT 4420 - Organizational Behavior in Business
- PADM 4226 - Intro Nonprofit Organizations

## Statistical and Research Methods (3 hours)

Take one course from this group:

- EDPR 4541 - Fundmntl/Applied Stat Method
- PADM 4101 - Political Statistics
- POLS 4101 - Political Statistics
- SOCI 3311 - Social Statistics
- MATH 1530 - Prob/Statistics/Non Calculus

## Written Communications (3 hours)

Take one course from this group:

- ENGL 3601 - Technical and Profess Writing
- ENGL 3604 - Persuasive Writing
- PBRL 3421 - Public Relations Writing
- MGMT 3510 - Business Communications

## Team and Organizational Relations (3 hours)

Take one course from this group:

- COMM 4011 - Communication in Organizations
- COMM 4342 - Small Group Communication
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- COUN 4621 - Human Interactions
- COMM 4341 - Interpersonal Communication
- COMM 4380 - Communication and Conflict

## Political and International Context (3 hours)

Take one course from this group:

- ACCT 3130 - Legal/Social/Political Environ
- ACCT 3011 - Business Law
  - ECON 4130 - Government Regulation of Business
- HIST 3212 - Latin American Nations
  - HIST 3274 - Modern Islamic World
- HIST 3291 - Modern Asia
- HIST 3302 - Modern Europe 1800-Present
- HIST 3881 - African American History
- JOUR 4712 - Media and Cultures
- POLS 3213 - Intro to Public Policy
- POLS 3302 - West Europe Govt/Politics
  - POLS 3304 - African Politics
- POLS 3306 - Latin American Govt/Politics
- POLS 3309 - Govt/Politics of Mid East
- POLS 3509 - Contmp Prblm Intl Relation
  - POLS 4305 - Post-Soviet Governments and Politics

- POLS 4307 - Govt and Pol Communist China

## Leadership (15 hours)

Take 5 courses, no more than 3 courses from any one area:

- ACCT 3130 - Legal/Social/Political Environ \*
- COUN 4611 - Intro to Counseling
- COUN 4621 - Human Interactions \*
- COUN 4781 - Strategy/Crisis Intervention
  - ECON 3411 - Economics of Social Issues
- PBRL 3400 - Survey of Public Relations
- LEAD 3350 - The Adult Learner
  - METH 4381 - Principles of Supervision \*
- MGMT 3110 - Organization and Mgmt \*
- PADM 3601 - Public Admin \*
- PADM 4226 - Intro Nonprofit Organizations \*
- PSYC 3101 - Psychology of Personality
- PSYC 3106 - Social Psychology
  - SOCI 3422 - Racial and Ethnic Minorities
  - SOCI 3432 - Sociology of Gender
- UNIV 4110 - Internship

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Experiential Learning Credit

Students may be granted credit for college-level knowledge related to their major area of study that they have gained from work experience, life experience, or non-college instruction. Students who would like an assessment of such learning must prepare a portfolio that describes and documents their learning experience. Portfolios are assessed by faculty who teach in the students' field of study.

Assessment by Portfolio is reserved for knowledge and competencies that do not readily fit into the Credit by Examination procedures.

For more information please visit the Experiential Learning website at

[http://www.memphis.edu/innovation/elc/experiential\\_learning.php](http://www.memphis.edu/innovation/elc/experiential_learning.php)



## Preschool & Child Care Administration, (B.P.S.)

These guidelines are designed for persons seeking careers in the administration of early childhood programs including childcare centers, both for-profit and non-profit; private and public pre-kindergarten programs; Head Start; pre-schools; parents' day out programs; before and after school care; and centers for children with special needs. Also served by these guidelines are persons with experience in childcare settings from a wide variety of backgrounds, including childcare volunteers and aides, as well as teachers and directors. In addition to core content in early childhood professional knowledge, there is course work to develop skills in fiscal management, recruiting and hiring personnel, health and safety management, board relations, marketing and public relations, and liaison with professional associations and regulatory agencies.

**NOTE: This Program DOES NOT lead to teacher licensure. Students interested in gaining a teaching license should contact the College of Education at 678-2728 or visit their website at: <http://www.memphis.edu/tep/>.**

### General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

### Coordinated Study (57 hours)

Students must earn a grade of "C-" or better in all Coordinated Study courses.

### Child Development and Family Studies (18 hours)

- EDPR 2111 - Development Across Lifespan
- CDFS 2100 - Intro Fld of Chld Dev& Fam St
- CDFS 2101 - Family/Global Perspective
- CDFS 3401 - Parent Child Relations
- CDFS 4220 - Understand Chldn/Behv/Guide
- CDFS 4223 - Home/School/Comm Engage

### Educational Context (9 hours)

- SPED 2000 - Foundation/Exceptional Learn
- ECED 3555 - Obsrv/Assmnt Infant/Erly Ch
- ECED 4500 - Emergent Literacy/Lang Dev
- CDFS 4101 - Int Curr for Early Learners
- EDPR 4301 - Early Child Dev/Begin Teacher

## Families and Culture (9 hours)

Select ONE course from EACH group

### Group A

- SOCI 3401 - Social Inequality
- SOCI 3422 - Racial and Ethnic Minorities
- SOCI 4420 - Racial Inequality
- SOCI 4442 - Sociology of Poverty
  
- SOCI 3401 - Social Inequality
- SOCI 3422 - Racial/Ethnc Minorities
- SOCI 4420 - Racial Inequality
- SOCI 4442 - Sociology of Poverty

### Group B

- ANTH 3511 - Culture/Kin/Family
- ANTH 4411 - Urban Anthropology
- HIST 4831 - History American Family
- HIST 4863 - History/Childhood in America
- SOCI 3831 - Marriage and Family

### Group C

- HIST 4851 - History of Women in America
- SOCI 3432 - Sociology of Gender
- SOCI 4460 - Black/White Women in South
  - UNIV 2304 - Gender and Society

## Program Administration (21 hours)

### Fiscal Management (6 hours)

- ACCT 2010 - Fundamentals of Acct I
- ACCT 2020 - Fundamentals of Acct II

### Human Resource Management (6 hours)

- MGMT 3110 - Organization and Mgmt
- MGMT 3215 - Management of Human Resources

## Health and Safety Management (6 hours)

- NUTR 2202 - Nutrition
- HMSE 2102 - First Aid and CPR

## Marketing and Public Relations

- PBRL 3400 - Survey of Public Relations
- or
- MKTG 3010 - Principles of Marketing

## Internship (3 hours)

- UNIV 4110 - Internship

## Thematic Studies (6 hours)

## Senior Project (3 hours)

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Religious Studies, (B.L.S.)

The Concentration in Religious Studies is designed for students with a diversity of backgrounds and interests in religion. Students who are enrolled in the concentration may be considering employment in fields where a knowledge of different religious traditions would be an asset, such as counseling or social work, or they may be contemplating further study of religion in a theological seminary or religious studies graduate program. Religious Studies is a traditional liberal arts field that helps students to develop skills in critical thinking, the analysis of complex issues, and oral and written expression.

## General Education (35-41 Hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

Students concentrating in Religious Studies may want to take ANTH 1200 and SOCI 1010 to fulfill the general education Social Science requirement.

## Coordinated Study (36 hours)

## Religious Studies Core (12 Hours)

- RLGN 1100 - Introduction to Religion
- RLGN 3100 - Perspectives on Religion
- UNIV 3580 - Hebrew and Greek Legacy
- UNIV 3581 - Faith/Reason/Imagination

## Religious Context Courses (24 Hours)

Choose 8 courses from the following:

- AAAS 4251 - African Religions/Diaspora
  - ANTH 4253 - Anthropology of Religion
- ENGL 4461 - Bible as Literature
- HIST 3275 - History of Jewish People
- JDST 3601 - Judaism
- JDST 3661 - Old Testament
- JDST 4511 - Holocaust Studies
- JDST 4841 - Biblical Archaeology
- PHIL 3701 - Human and the Divine
- PHIL 3702 - Philosophy of Religion
- PHIL 3721 - Chinese Philosophy
- POLS 3102 - Religion and Politics
  - SOCI 3860 - Sociology of Religion
- UNIV 3565 - Comparative Christianity
- UNIV 3585 - Critical Themes Old Testament
- UNIV 3590 - New Testament

## College Requirements (9 Hours)

## Thematic Studies (6 Hours)

Students complete a total of 6 hours of University College thematic studies course(s). Must be from courses not in the core.

## Senior Project (3 Hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse together the two or more academic areas that comprise the coordinated study (major) into an academically-relevant example of scholarship.

The Senior Project is completed during a student's final semester.

- UNIV 4995 - Senior Project

## Electives (29-34 Hours)

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

Many upper-division (3000/4000-level) courses have prerequisites that must be met prior to being permitted to register for those courses. Students are responsible for knowing and satisfying all course prerequisites. Please view course descriptions at: <http://www.memphis.edu/ugcatalog/coursedescrip/index.php>.

## Experiential Learning Credit Opportunities

Students seeking degrees in University College may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or non-college instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area.

Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures. More detailed information about procedures may be obtained from the advisor.

## Technology Management Services - (B.P.S)

[Technology Management Services](#) is designed for experienced technicians who wish to enhance their technical expertise while at the same time increasing their skills in management, organizational relations, and communication; their knowledge of contexts within which the management of technology fits; their understanding of workplace issues that can affect productivity; and their ability to manage diversity in the workforce.

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

Technology Concentration: 24 hours (12 hours must be upper division)

## **This includes courses taken from such departments as**

- Engineering
- Engineering Technology
- Manufacturing Engineering
- Architecture
- Mathematics
- Computer Science
- Biology
- Chemistry
- Physics
- Earth Sciences
- and other approved courses.

## Management Services (30 Hours)

### Administration and Supervision (3 Hours)

*Take one course from the following group:*

- MGMT 3110 - Organization and Mgmt
- TECH 4381 - Principles of Supervision
- PADM 3601 - Public Admin

### Organizational Systems (3 Hours)

*Take one course from the following group:*

- MGMT 3215 - Management of Human Resources
- MGMT 4420 - Organizational Behavior in Business
- PADM 4226 - Intro Nonprofit Organizations
- PSYC 3508 - Indust/Organizatnl Psyc

### Marketing and Public Relations (3 Hours)

*Take one course from the following group:*

- MKTG 3010 - Principles of Marketing
- PBRL 3400 - Survey of Public Relations

## Administrative Skills (3 Hours)

*Take one course from the following group:*

- ACCT 2010 - Fundamentals of Acct I
- MIS 2749 - Foundation/Information Systems
  - MIS 2770 - Information Technical Infrastructure

## Statistical & Research Methods (3 Hours)

*Take one course from the following group:*

- SOCI 3311 - Social Statistics
- EDPR 4541 - Fundmntl/Applied Stat Method
- SCMS 3711 - Business Analytics - Tools
  - MATH 1601 - Statistical Reasoning
- MATH 4611 - Intro Applied Statistics

## Team and Organizational Relations (3 Hours)

*Take one course from the following group:*

- COMM 4011 - Communication in Organizations
- COMM 4342 - Small Group Communication
- COMM 4373 - Interracial Communication
- COMM 4375 - Intercultural Communication
- COUN 4621 - Human Interactions
- COUN 4781 - Strategy/Crisis Intervention

## Written Communication (3 Hours)

*Take one course from the following group:*

- ENGL 3601 - Technical and Profess Writing
- ENGL 3602 - Professional Editing
- ENGL 3603 - Engineering Communications
- ENGL 3604 - Persuasive Writing
- MGMT 3510 - Business Communications

## Social & Cultural Context (3 Hours)

*Take one course from the following group:*

- ANTH 4412 - Neighborhood Development
- ANTH 3511 - Culture/Kin/Family
- CJUS 4180 - Corporate/White Collar Crime
- CJUS 4235 - Security Management
- COMM 3003 - Television and Culture
- SLS 3105 - Sport/Leisure as Pop Culture
- SOCI 3422 - Racial/Ethnic Minorities
- SOCI 3432 - Sociology of Gender
- SOCI 3831 - Marriage and Family
- SOCI 4631 - Cities in Change

## Political & Economic Context (3 Hours)

*Take one course from the following group:*

- ACCT 3130 - Legal/Social/Political Environ
  - ECON 3411 - Economics of Social Issues
  - ECON 4130 - Government Regulation of Business
- HIST 4824 - Business History
- POLS 4510 - Politics of Global Economy
- ESCI 4430 - Economic Geography

## Technology & Culture (3 Hours)

*Take one course from the following group:*

- COMM 4014 - Communication on the Internet
- HIST 3035 - Technology/Culture Am History
- PHIL 3512 - Science/Technology/Human Values
- PHIL 3514 - Biomedical Ethics

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)



The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## Electives

May be chosen to bring the total number of hours to 120 with a minimum of 42 upper-division hours.

## Urban Studies (B.P.S.)

This program provides a structure of study for students interested in the origin, evolution, and function of cities and metropolitan areas. Courses have been chosen to allow exploration of multiple perspectives on the dynamics of urban change, the causes of urban problems, and the sources of urban innovation. Special emphasis is given to the physical development of communities, and the interaction of that development with the social, economic, and environmental well being of communities. The curriculum considers theories, ideologies, and practices to support solutions to urban and regional problems and offers students opportunities to engage in addressing local challenges with community partners. This course of study prepares students for pursuit of a professional master's degree in a related discipline (e.g., City Planning, Public Policy, Public Administration, etc).

## General Education (35-41 hours)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Professional Core

### A. Urban Studies Foundations

The following courses are required (15 hrs):

- PLAN 3451 - Introduction to Planning (Crosslisted with ESCI 3451)
- PLAN 4003 - Community Economic Development
- PLAN 4201 - Urbanization and Environment (Crosslisted with ESCI 4201)
- PLAN 4551 - Urban Planning Studio (Crosslisted with ESCI 4551)
- ANTH 4010 - Ethnographic Methods

### B. Urban Studies Support (Choose 15 hrs)

- PLAN 4261 - Plan Sustainable CitiesRegions (Crosslisted with ESCI 4261)
- PLAN 4004 - Community Organizing
- ARCH 1211 - History of Architecture 1
- ARCH 2212 - History of Architecture 2
- ESCI 4515 - Geographic Info Science
- ESCI 4443 - Transportation Planning
- ANTH 4412 - Neighborhood Development
- ECON 4220 - Urban Economics
- POLS 3211 - State/Local Government

## C. Urban Studies Exploration (Choose 15 hrs)

May use any of the Group B courses not used toward the Urban Studies Support requirement to satisfy Urban Studies Explorations (15 hrs)

- PLAN 4002 - Urban Food Security
- ANTH 3282 - American Communities
- ANTH 4411 - Urban Anthropology
- ARCH 3221 - Determinants of Modern Design
- ARCH 3222 - Contemporary Architecture 1
- ARCH 4022 - Architecture+Urbanism Seminar
- ARCH 4023 - Urban Design Seminar
- ARCH 4231 - Issues in City Building
- ARCH 4421 - Sustainable Design
- ESCI 4431 - Urban Geography
- POLS 3213 - Intro to Public Policy
- SOCI 4442 - Sociology of Poverty
- SOCI 4631 - Cities in Change
- SWRK 2010 - Introduction to Social Work

## Thematic Studies (6 hours)

Any UNIV 3500-3599 or UNIV 4500-4599 course, CSED 4300, CSED 4205, PHIL 3514 Students complete a total of 6 credit hours in a University College thematic studies course(s) of their choosing. These courses are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Only specifically designated courses will meet this requirement. Students can complete one 6 credit hour class or two 3 credit hour courses. For a complete list of courses:

[http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## General Elective (25-31 hrs)

Electives may be chosen to bring the total number of hours to 120 with a minimum of 42 upper division hours.

## Experiential Learning Credit

Experiential Learning Credit may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or noncollege instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area. Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures described above. More detailed information about procedures may be obtained from the individual colleges.

## Visual Merchandising and Exhibition Design (B.P.S.)

The Visual Merchandising and Exhibition Design concentration is an interdisciplinary program and comprises developing environments such as homes, stores, display windows and other merchandise displays; as well Exhibition Design, including trade shows and installations at large scale events, like pop-up stores.

## University General Education (35-41 hrs)

See Graduation from the University for the University General Education Program requirements. Students who have completed one year of American History in high school are exempted from the six credit-hour History General Education Program requirement; otherwise, students will have to meet the History requirement.

## Visual Merchandising and Design Core (12 hours)

- MRCH 2000 - Visual Imaging for Fashion and Merchandising
- MRCH 2010 - Textiles
- MRCH 3215 - Textiles Applications
- MRCH 3000 - Color and Basic Design Studies and Applications

## Visual Merchandising & Exhibition Design Concentration (24 hours)

- MRCH 2004 - Tech Skills for Merchandising
- MRCH 2106 - 3D Visual Merchandising
- MRCH 3204 - Residential Kitchen Planning
- MRCH 3600 - Consumer Engagement in the Digital Era
- MRCH 4204 - Furnishing Prblms/Presentatns
- MRCH 4304 - Trends Housing Home Furnishing

Choose any appropriate upper division courses from Art, Theater, etc. for the remaining 6 hours. Courses from other departments should be discussed with your advisor/program coordinator before registering to determine appropriateness for concentration

## Senior Year Requirements (6 hours)

The senior collection is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior collection is intended to fuse all the academic areas that comprise the student's understanding of developing a fashion collection into a relevant example of scholarship to be showcased down the runway. Students will complete a collection of their choice with approval of their senior collection instructor. The senior collection is completed during a student's final semester.

- MRCH 4600 - Senior Seminar
- UNIV 4110 - Internship

## Thematic Studies (6 hours)

University College thematic studies course(s) are designed to broaden a student's knowledge of significant themes in social, political, and religious history. Review a complete list of courses: [http://www.memphis.edu/univcoll/resources/thematic\\_studies.php](http://www.memphis.edu/univcoll/resources/thematic_studies.php)

- MRCH 4205 - Behavioral Sci Aspects Clothng
- MRCH 3050 - Costume History

## Senior Project (3 hours)

The senior project is a student's culminating experience or capstone designed to synthesize and integrate the content of a student's program of study. The senior project is intended to fuse the two or more academic areas that comprise the student's coordinated study (major) into an academically-relevant example of scholarship. Students will complete a thesis, task-based, or artistic project on a topic of their choice with approval of their senior project instructor. The senior project is completed during a student's final semester. **ALL** sections of UNIV 4995 are taught online. Students will be assigned to a specific section based on the topic they select.

- UNIV 4995 - Senior Project (completed during the final semester)

## Minor

### Alcohol and Drug Abuse Services Minor

#### Requirements (18 hours)

This interdisciplinary minor examines societal alcohol and drug abuse from the perspectives of anthropology, counseling, criminal justice, psychology, and sociology. The minor is open to students majoring in any area within any undergraduate college at The University of Memphis or to special students who wish to enroll in order to take such a program.

## Required Core Courses (9 hours)

- ANTH 4531 - Alcohol/Drugs/Culture
- COUN 4783 - Alcohol/Drug Abuse Services
- PSYC 3507 - Alcohol/Drugs/Behavior

## Plus 3 Additional Courses from the Following List (9 Hours)

- CJUS 3152 - Drug Addiction and Alcoholism
- COUN 4781 - Strategy/Crisis Intervention
- SOCI 3501 - Sociology of Deviant Behavior
- SOCI 3112 - Contemporary Social Problems
- SOCI 4851 - Medical Sociology

## American Studies Minor

The American Studies minor engages students in an examination of the culture and society of the United States, with attention paid to the ways in which Americans express their basic values and give meaning to their institutions and everyday social practices. These values, institutions, and practices are a reflection, in part, of the different experiences of a people, according to their race, gender, class, and historical roots. This minor provides an opportunity to explore the commonalities and differences among Americans through an interdisciplinary course of study.

## Requirements

### Required Core Courses (6 hours)

UNIV 35xx and/or UNIV 45xx

### Elective Courses (12 hours)

Select one course from each of the following groups, plus two additional courses from these groups. No more than two courses from any single department will be accepted.

#### Group 1

- COMM 4381 - Senior Capstone
- COMM 4851 - Film History II
- COMM 4856 - Gender and Film
- ENGL 3325 - Af/Am Lit thru Harlem Ren
- ENGL 3326 - Af/Am Lit since Harlem Ren
- ENGL 3327 - American Literature to 1865

- ENGL 3328 - American Literature since 1865
- ENGL 3521 - The American Language
- MUHL 4801 - American Folk/Popular Music
- MUHL 4804 - Blues
- MUHL 4805 - History of Rock and Roll
- MUHL 4806 - History of Jazz
- MUHL 4807 - Memphis Music

## Group 2

- ANTH 3282 - American Communities
  - ANTH 4336 - Native Peoples of the Southeastern United States
  - ESCI 3401 - Historical Geography of the U.S.
- HIST 3035 - Technology/Culture Am History
- HIST 3863 - Social/Intellct History of U S
- HIST 4701 - U S 1914 to World War II
- HIST 4851 - History of Women in America
- HIST 3941 - History of American Indian
- SOCI 3420 - Sociology of the South
- SOCI 4420 - Racial Inequality

## Additional Information

With the signed permission of the dean of the University College or the dean's designate, the following are acceptable: (1) A course from Group 1 of Section B can be substituted for one of the courses in Section A. (2) Up to two courses may be substituted for those listed in Section B. In content and approach, these courses will have a distinct American Studies emphasis.

## Child Development Minor

This interdisciplinary minor will attract students with majors in education, family and consumer studies, human services, nonprofit administration, psychology, social work, and related areas.

## Requirements

### Required Courses (9 hours)

- EDPR 2111 - Development Across Lifespan
- PSYC 3103 - Child Psychology
- CDFS 3401 - Parent Child Relations

### Plus 9 Additional Upper Division Hours From:

- ANTH 3511 - Culture/Kin/Family

- CDFS 3410 - Soc Emotion Lrng Early Child
- CDFS 4220 - Understand Chldn/Behv/Guide
- HIST 4863 - History/Childhood in America
- PSYC 3305 - Psyc Learning/Memory
- PSYC 4034 - Children Soc Relationships
- PSYC 4102 - Abnormal Child Psych
- SWRK 4934 - Child Welfare Policy/Services

## Religion in Society Minor

The University College offers an interdisciplinary minor in Religion in Society. This minor examines the role of religion in society throughout history. The minor is open to students majoring in any area within any undergraduate college at The University of Memphis or to special students who wish to enroll in order to take such a program.

### Requirements

#### Required Courses (6 Hours)

- RLGN 1100 - Introduction to Religion
- RLGN 3100 - Perspectives on Religion

#### Additional Courses (12 Hours)

- ANTH 4253 - Anthropology of Religion
- ENGL 4461 - Bible as Literature
- HIST 3275 - History of Jewish People
- JDST 2850 - Religions of Abraham
- JDST 3661 - Old Testament
- JDST 4511 - Holocaust Studies
- PHIL 3701 - Human and the Divine
- UNIV 3565 - Comparative Christianity
- UNIV 3711 - Special Topics
- UNIV 3712 - Special Topics

## Kemmons Wilson School of Hospitality and Resort Management

## Kemmons Wilson School of Hospitality and Resort Management

The primary goal of the Hospitality and Resort Management program is to produce graduates who have the knowledge and skills necessary for them to be successful in the increasingly competitive hospitality business environment. Hospitality and Resort Management is committed to expanding the general business knowledge, specific hospitality skills, and overall technical competence of both students and faculty who matriculate and educate within this program.

Program objectives of the B.S. in Sport and Leisure Management are: (a) to become involved in the profession and committed to the academic, service, and social mission of the profession; (b) to demonstrate an awareness of the critical role of diversity to the delivery of inclusive sport and leisure services; (c) to demonstrate effective leadership within the sport and leisure profession; and (d) to behave in accordance with the ethical standards of the sport and leisure profession.

## Graduation

In addition to specific course requirements listed below, students must complete the following:

1. Minimum of 120 semester hours of which at least 45 hours must be upper division and at least 45-51 hours must be liberal content courses.
2. Overall minimum GPA of 2.00.
3. A minimum GPA of 2.00 in all credits earned at the University of Memphis excluding all credit transferred from other institutions.
4. A minimum GPA of 2.25 in all courses required for fulfilling the completion of the major.

**NOTE:** Any courses taken in excess of those needed to fulfill the requirements of the major are considered to be general electives and are included only in the calculation of the overall GPA. In those areas where students are required to take elective courses, the student in consultation with and approval of the major advisor, designates where the elective courses are to be applied.

## Sport & Leisure Management

The program objectives of the B.S. in Sport and Leisure Management (SLM) are: (a) to become involved in the profession and committed to the academic, service, and social mission of the profession; (b) to demonstrate an awareness of the critical role of diversity to the delivery of inclusive sport and leisure services; (c) to demonstrate effective leadership within the sport and leisure profession; and (d) to behave in accordance with the ethical standards of the sport and leisure profession.

### Major

## Sport & Leisure Management (B.S.)

The program objectives of the B.S. in Sport and Leisure Management (SLM) are: (a) to become involved in the profession and committed to the academic, service, and social mission of the profession; (b) to demonstrate an awareness of the critical role of diversity to the delivery of inclusive sport and leisure services; (c) to demonstrate effective leadership within the sport and leisure profession; and (d) to behave in accordance with the ethical standards of the sport and leisure profession.

### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements.

### The Major (79 hours)

Core Requirements (31 hours)



- SLS 2105 - Foundation/Sport/Leisure Mgt
- SLS 3104 - Commercial Rec and Tourism
- SLS 3105 - Sport/Leisure as Pop Culture
- SLS 3204 - Org Analysis Sport/Leisure
- SLS 3605 - Financial Management SLS
- SLS 3650 - Promotions in Sport& Leisure
- SLS 4135 - Sport/Culture Global Perspect
- SLS 4155 - Sport/Leisure Governance
- SLS 4205 - Legal Aspects SLM
- SLS 4500 - Sport/Leisure Mktg

SLS Electives (27-48 hours)

Includes all SLS courses not required in the major core and:

- HPRM 2007 - Resort Management
- HPRM 3330 - Managing Hotel/Resort Ops
- HPRM 2999 - Purchase/Hospitality Industry
- HPRM 3130 - Hospitality Law Ethics& Risk
- HPRM 3600 - Entertainment Management

General Electives (0-21 hours) to bring the total hours to 120.

## Accelerated B.S. in Sport and Leisure Management/M.S in Sport Commerce

The Accelerated Bachelor's/Master's (ABM) degree program is a B.S. in Sport and Leisure Management/M.S in Sport Commerce. This program allows outstanding undergraduate students to begin the coursework for the M.S. in Sport Commerce during their senior year. Students are encouraged to begin planning to enter the ABM program early in their undergraduate career in consultation with their advisor. Working with the undergraduate and graduate academic coordinators, undergraduates selected into this program begin a carefully tailored course of study that will allow them to complete their B.S. in Sport and Leisure Management degree while also beginning coursework toward their M.S. in Sport Commerce degree.

To apply, students must have a minimum 3.25 grade point average, submit two letters of reference, and provide a copy of their academic transcript to the Kemmons Wilson School of Hospitality and Resort Management. Each applicant will complete an interview with the graduate academic coordinator of the M.S. in Sport Commerce program. To continue in the program past the B.S. in Sport and Leisure Management, students must apply for full admission to both the Graduate School and the M.S. in Sport Commerce program. In the ABM program, up to 9 hours of graduate coursework may be applied to both the undergraduate and graduate programs. However, any graduate coursework will not apply to a student's undergraduate grade point average.

## Typical 4-Year Sport & Leisure Management Sequence

### Freshman Year

- ENGL 1010 - English Composition
- Social/Behavioral Sciences\*
- Mathematics\*
- Humanities/Fine Arts\*
- General Elective

- ENGL 1020 - English Comp/Analysis
- COMM 2381 - Oral Communication

Natural Science/Lab\*

Humanities/Fine Arts\*

History\*

**Semester Totals : 31 hours**

## Sophomore Year

Natural Science/Lab\*

Literature

- SLS 2105 - Foundation/Sport/Leisure Mgt

SLS Elective

- ECON 2010 - Intro to Macroeconomics

History\*

- SLS 3204 - Org Analysis Sport/Leisure
- SLS 3605 - Financial Management SLS

SLS Elective

**Semester Totals: 29 hours**

## Junior Year

- SLS 3104 - Commercial Rec and Tourism
- SLS 3105 - Sport/Leisure as Pop Culture
- SLS 4500 - Sport/Leisure Mktg

SLS Elective

SLS Elective or General Elective

- SLS 3650 - Promotions in Sport& Leisure
- SLS 4135 - Sport/Culture Global Perspect
- SLS 4205 - Legal Aspects SLM

SLS Elective

SLS Elective or General Elective

Semester Totals: 30 hours

## Senior Year

- SLS 4155 - Sport/Leisure Governance
  - SLS Elective
  - SLS Elective or General Elective
  - SLS Elective or General Elective
  - SLS Elective or General Elective
  - SLS Elective
  - SLS Elective
  - SLS Elective
  - SLS Elective
  - SLS Elective or General Elective

Semester Totals: 30 hours

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Hospitality & Resort Management

The primary goal of the Hospitality and Resort Management program is to produce graduates who have the knowledge and skills necessary for them to be successful in the increasingly competitive hospitality business environment. Hospitality and Resort Management is committed to expanding the general business knowledge, specific hospitality skills, and overall technical competence of both students and faculty who matriculate and educate within this program. Program objectives for the B.A. in Hospitality and Resort Management are found here.

## Major

### Hospitality and Resort Management, (B.A.)

#### University General Education Program (41 hours)

See Graduation from the University for the University General Education Program requirements. Note that MATH 1530 (Mathematics requirement) with a minimum grade of "C" is required.

#### College and Degree (B.A.) Requirements (6-9 hours)

The College and Bachelor of Arts requirement are in addition to the University General Education Program requirements.

#### The Major (42 hours)

- HPRM 1050 - Business of Hospitality
- HPRM 2004 - Distinguished Speakers
- HPRM 2011 - Hosp Ind Managerial Acct
- HPRM 3330 - Managing Hotel/Resort Ops
- HPRM 3331 - Lodging Mgmt Lab
- HPRM 3061 - Basic Food & Bev Prod Lab
- HPRM 3062 - Rest. Managemnet Service Lab
- HPRM 3060 - Food & Bev. Production Theory
- HPRM 3130 - Hospitality Law Ethics& Risk
- HPRM 3315 - Hospitality Human Resource Mgm
- HPRM 3320 - Hospitality Financial Mgmt
- HPRM 3911 - Pre-Internship in HPRM
- HPRM 4301 - Event Management for HPRM/PR
- HPRM 4320 - Hospitality Services Mktg
- HPRM 4620 - Hospitality Operational Anlys
- HPRM 4700 - Integrative Challenge
- HPRM 4911 - Hospitality Mgmt Internship

#### Electives (28-31 hours)

Electives may be chosen to bring the total number of hours to 120.

## Typical 4-Year Hospitality and Resort Management Sequence

### Freshman Year

- ENGL 1010 - English Composition
  - Foreign Language/B.A. (3)
- MATH 1530 - Prob/Statistics/Non Calculus
- COMM 2381 - Oral Communication
- HPRM 1050 - Business of Hospitality
  
- ENGL 1020 - English Comp/Analysis
  - Foreign Language/B.A. (3)
- HPRM 2004 - Distinguished Speakers
  - Social/Behavioral Sciences\*
  - Fine Arts/B.A.

Semester Totals 28 hrs

### Sophomore Year

- ENGL 2201 - Literary Heritage \*
  
- or
  
- ENGL 2202 - Lit Heritage: African-American \*
  - Foreign Language/B.A.
- HPRM 2011 - Hosp Ind Managerial Acct
  - Natural Science (4)
  
- HPRM 3330 - Managing Hotel/Resort Ops
- HPRM 3331 - Lodging Mgmt Lab
  - Natural Science (4) \*
  - Humanities\*
  - Foreign Language/B.A.

Semester Totals 31 hrs

### Junior Year

- HPRM 3060 - Food & Bev. Production Theory
- HPRM 3061 - Basic Food & Bev Prod Lab
- HPRM 3130 - Hospitality Law Ethics& Risk
- HPRM 3315 - Hospitality Human Resource Mgm
  - Elective (3)
  
- HPRM 3320 - Hospitality Financial Mgmt
  - Social Science\*
  - Elective (3)

- Elective (3)
- HPRM 3062 - Rest. Managment Service Lab
- HPRM 3911 - Pre-Internship in HPRM

Semester Totals 30 hrs

## Senior Year

- HPRM 4301 - Event Management for HPRM/PR
- HPRM 4620 - Hospitality Operational Anlys
- HPRM 4320 - Hospitality Services Mktg
  - Elective (3)
  - Upper Division Elective (3)
- HPRM 4700 - Integrative Challenge
  - Elective (3)
  - Elective (3)
- HPRM 4911 - Hospitality Mgmt Internship
  - Upper Division Elective (3)

Semester Totals 30 hrs

Total Hours: 120

Total Hours Required for Graduation: 120

\*Must satisfy University General Education Program Requirement

## Minor

### **Hospitality and Resort Management Minor (19 hrs)**

#### Requirements

To receive a minor in Hospitality and Resort Management, the student is required to take 19 credit hours as follows:

- HPRM 1050
- HPRM 2050 (4)
- HPRM 2330
- HPRM 4320
- HPRM 4620

- HPRM 4700
- HPRM 1050 - Business of Hospitality
- HPRM 3060 - Food & Bev. Production Theory
- HPRM 3061 - Basic Food & Bev Prod Lab
- HPRM 3330 - Managing Hotel/Resort Ops
- HPRM 4320 - Hospitality Services Mktg
- HPRM 4620 - Hospitality Operational Anlysis
- HPRM 4700 - Integrative Challenge

## Arts and Sciences

### Bachelor of Arts (B.A.) (6-9 hours)

These hours are in addition to the University General Education Program requirements.

Foreign Language: 6 hours in a single foreign language at or above the 2000 level or equivalent.

1. If the language chosen was used to meet University admissions requirements, students must take the foreign language placement exam (if they have not already successfully completed a language course at an accredited institution of higher education). For information about the dates and place of placement exams, contact the Department of Foreign Languages and Literatures. On the basis of the results of the placement exam, students should follow these guidelines:

If placed into 1010: complete 1010, 1020, 2010, 2020

If placed into 1020: complete 1020, 2010, 2020

If placed into 2010: complete 2010, 2020

If placed into 2020: complete 2020

If placed into 3301 or higher: language requirement fulfilled

Or complete 6 hours at the 2000 level or above of another language

2. Students presenting a language to meet University admission requirements cannot receive credit for 1010 in that language.
3. No credit hours are immediately granted on the basis of the placement exam.
4. Satisfactory completion of the language requirement by means of the placement exam will be noted on the student's transcript.
5. Students whose first college-level language course is 2010 or higher and who pass this course with a minimum grade of "C" may apply for Credit by Course Placement. The applicable fees are listed in the Miscellaneous Fees section of this Catalog. Students wishing such credit must make written application to the chair of the Department of Foreign Languages and Literatures. Credit by Course Placement shall apply only to the lower division, and credit gained in this manner shall not exceed 12 semester hours in any one language. For additional information, see Credit by Course Placement.
6. Once a student begins with a lower-division course, all remaining higher-numbered courses in the lower division must be taken in sequence, without skipping. For example, students who begin with LATN 1010 cannot skip LATN 1020 and enroll in LATN 2010.
7. For students whose mother tongue is not English, lower-division credit in the native language will be awarded when the student has successfully completed the English composition requirement for graduation and has proven proficiency in the native language to the satisfaction of the Department of Foreign Languages and Literatures. The student must make written application to the chair of the Department of Foreign Languages and Literatures.

Fine Arts: (Required only if a Fine Arts course was not taken to fulfill General Education requirements): 3 hours from: ART 1030, ARTH 2010, ARTH 2020, COMM 1851, COMM 4850, COMM 4858, DANC 1151, DANC 3101, MUS 1030, MUS 1040, MUHL 4800, THEA 1030, THEA 4542, THEA 4543.

NOTE: The College of Arts and Sciences accepts a maximum of two semester hours in physical activity courses toward the fulfillment of its degree requirements.

To qualify for the Bachelor of Arts degree, the student must complete a minimum of 120 qualifying semester hours with a grade point average of 2.0. A minimum of 42 semester hours must be in courses from the upper division. A minimum grade of "C" is required in every course applicable toward a major or minor (including corequisites). A minimum cumulative GPA of 2.0 is required for courses applied to the major. Every student should be aware that the mere completion of course outlined below with a minimum grade of "C" does not guarantee classification as a major or minor in the discipline concerned; the student must be recommended by the chair of the

department in which the major or minor is sought. If, in the opinion of the department chair, the quality of the student's work is not high enough, additional work, the repetition of courses, or other evidence of acceptable scholarship may be required.

## Residence Requirements

University residence requirements are explained in detail in the Graduation from the University section. A transfer student in The College of Arts and Sciences must earn at least 6 semester hours in residence in the major subject and at least 3 semester hours in the minor. These credits may be earned only through regular class enrollment for a letter grade.

## Bachelor of Science (B.S.)

Any course requirements over and above University General Education and departmental course requirements in the major shall be determined by the individual departments consistent with university approval processes.

NOTE: The College of Arts and Sciences accepts a maximum of two semester hours in physical activity courses toward the fulfillment of its degree requirements.

To qualify for the Bachelor of Science degree, the student must complete a minimum of 120 qualifying semester hours with a grade point average of 2.0. A minimum of 42 semester hours must be in courses from the upper division. A minimum grade of "C" is required in every course applicable toward a major or minor (including corequisites). A minimum cumulative GPA of 2.0 is required for courses applied to the major. Every student should be aware that the mere completion of course outlined below with a minimum grade of "C" does not guarantee classification as a major or minor in the discipline concerned; the student must be recommended by the chair of the department in which the major or minor is sought. If, in the opinion of the department chair, the quality of the student's work is not high enough, additional work, the repetition of courses, or other evidence of acceptable scholarship may be required.

## Prior Learning Assessment

Students who wish to accelerate the completion of their degree may be eligible to earn credit through Prior Learning Assessment (PLA) which includes Experiential Learning, credit earned through CLEP or DSST standardized exams, or departmental credit by examination. For more information on Prior Learning Assessment see here.

## Prior Learning Assessment

### 1. Credit for Selected Secondary School Courses

#### a. [Advanced Placement Credit](#)

The University of Memphis participates in the Advanced Placement Program of the College Entrance Examination Board. Appropriate credit is awarded for scores of 3, 4, or 5. Advanced placement credit may also apply to certain university requirements and to major requirements. Information about credit awarded may be obtained from the Admissions Office and the Office of Admissions website.

#### b. [International Baccalaureate Program](#)

The University of Memphis recognizes secondary students' participation in the International Baccalaureate Program and awards college credit for completion of selected courses. To be eligible for credit, students must earn a score of 4 or higher. Information on credit awarded is available in the Admissions Office.

### 2. Credit for Instruction in the Armed Services

An official evaluation of armed services instruction is made after a student is accepted as a regular undergraduate student. Credit awarded for completion of services schools will be governed by recommendations at the baccalaureate level from the current Guide to the Evaluation of Educational Experience in the Armed Services. Military transcripts, for example SMART or AARTS, must be presented to the Office of Admissions. Upon presentation of a copy of the veteran's report of separation (DD Form 214) to the Office of Admissions, six semester hours of health and physical education credit will be awarded. Veterans with less than one year of continuous



full-time service who have completed basic training while on active duty will be awarded credit as recommended in the Guide to Evaluation of Educational Experiences in the Armed Services.

### 3. Credit for Non-collegiate Sponsored Instruction

Credit is awarded for non-collegiate sponsored instruction offered by corporations, associations, labor unions, government agencies, and training providers which has been evaluated by the National College Credit Recommendation Service of the American Council of Education and recommended in the current NCCRS guide. The Office of Admissions should be contacted for information.

### 4. Credit by Examination

Credit by examination is awarded based upon standardized examinations and upon examinations administered by departments of the University for specific courses and for placement. Students may not take an examination for credit in a course previously taken for credit, with the exception of lower division transfer courses that the student wishes to validate for upper division credit. Students may, however, take an examination for credit in a course that was audited or in courses at a lower level than a course taken for credit.

#### a. CLEP and DANTES Standardized Examinations

The University of Memphis awards credit for standardized examinations of the College-Level Examination Program (CLEP) of the College Board and for standardized examinations of the Defense Activity for Non-Traditional Education Support (DANTES). Credit awarded is based upon credit recommendations and minimum scores recommended by the American Council on Education. CLEP and DANTES credit may also apply to certain University requirements and to major requirements. For information on credit awarded, test dates, and fees, contact the Testing Center.

#### b. Departmental Examinations

Almost all courses in the undergraduate curriculum, except for those with laboratory, research, or performance requirements, are available for credit by examination. Students who believe that they have already mastered the material of a particular course offered at the University of Memphis may take a departmentally administered examination for credit in that course.

To apply for credit by examination, a student must be enrolled at the University of Memphis and have a GPA of 2.00 or above. An eligibility form may be obtained in the Office of the Registrar - Records Analysis. Permission to take a credit examination must then be obtained from the chair of the department in which credit is sought and from the dean of the college in which the student is seeking a degree. Students pay \$60 per course, plus \$15 per credit hour in excess of three (3) credit hours per course (see Fees and Charges) prior to taking the exam. To receive credit, the student's examination grade should be the equivalent of a "C" or above. Credit is indicated on the student's record as CR.

### 5. Upper Division Credit by Validation Examination

Credit for courses at the freshman or sophomore level is transferred as lower division credit even though the content may be equated to University of Memphis upper division (junior/senior) level courses in some cases. In order to receive upper division credit for a lower division course that has an upper division equivalent, the credit must be validated through appropriate departmental examinations, portfolios, or other documentation. Contact the department to see if this option is available, to make application and to obtain information. There is no fee for validation examinations.

### 6. Credit for Course Placement and Completion

Some departments offer the opportunity to receive credit by course placement and completion for selected courses. Students who receive prior approval from the department chair may enroll in a University of Memphis course at the level for which they feel previous instruction or experience qualifies them. Upon completion of the course, they receive credit for certain sequential courses numbered lower than the one in which they enrolled. Recording of credit for the lower numbered course(s) is contingent upon completion of the higher level course with a minimum grade of "C". Upon completion of the course, approval of the chair of the department and payment of fees are required for credits to be recorded. (See Fees and Charges)

In the Department of Foreign Languages and Literature, students whose first college-level course in a language is 2010 may apply for credit for 1020 in that language. Students whose first college-level course is 2020 may apply for credit for 1020 and 2010 in that

language, and those whose first college-level course in a language is a 3xxx course in composition and/or conversation may apply for credit for 1020, 2010, and 2020 in that language.

## 7. Credit for Experiential Learning by Assessment

Students seeking degrees in the College of Communication and Fine Arts, the College of Education, Health and Human Sciences, and University College, and some programs in the Fogelman College of Business and Economics may be granted credit for college level knowledge and understanding related to the student's major area of study and gained from work experience, life experience, or non-college instruction. The student who wants an assessment of such learning prepares a portfolio that describes and documents the learning. Portfolios are assessed by faculty who teach in that area.

Assessment by portfolio is reserved for knowledge and competencies which do not readily fit into the credit by examination procedures described above. More detailed information about procedures may be obtained from the individual colleges. For fee information, see Fees and Charges.

## 8. Credit for ACT Test Scores

### a. English Composition

The University of Memphis awards 3 hours of credit for ENGL 1010 - English Composition to students with an ACT English subscore of 29 or above. Students who have previously taken ENGL 1010 and earned a passing or failing grade are not eligible. ACT scores for this credit are valid for 3 years.

### b. Mathematics

The University of Memphis awards 3 hours of credit for MATH 1710 - College Algebra to student with an ACT Math subscore of 29 or above. Students who have previously taken MATH 1710 and earned a passing or failing grade are not eligible. ACT scores for this credit are valid for 2 years.