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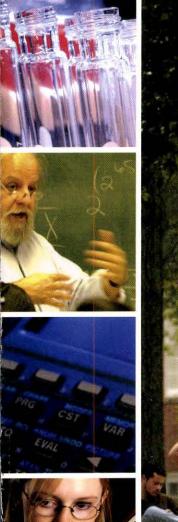
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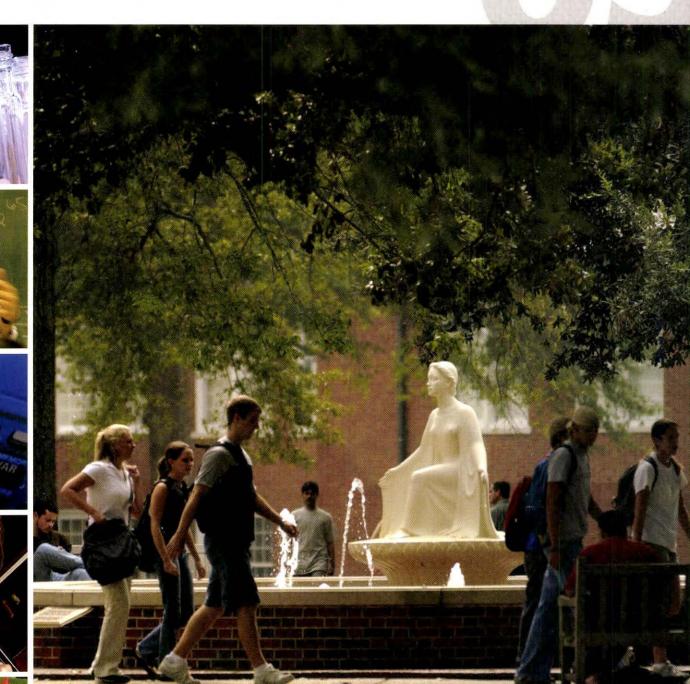
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LOUISIANA TECH UNIVERSITY

Daniel D. Reneau, PhD President

UNIVERSITY CATALOG 2004-2005

http://www.latech.edu

Louisiana Tech University Subseribes To The Policy of Equal Opportunity

Volume MMIV

Louisiana Tech University is a member of the University of Louisiana System.

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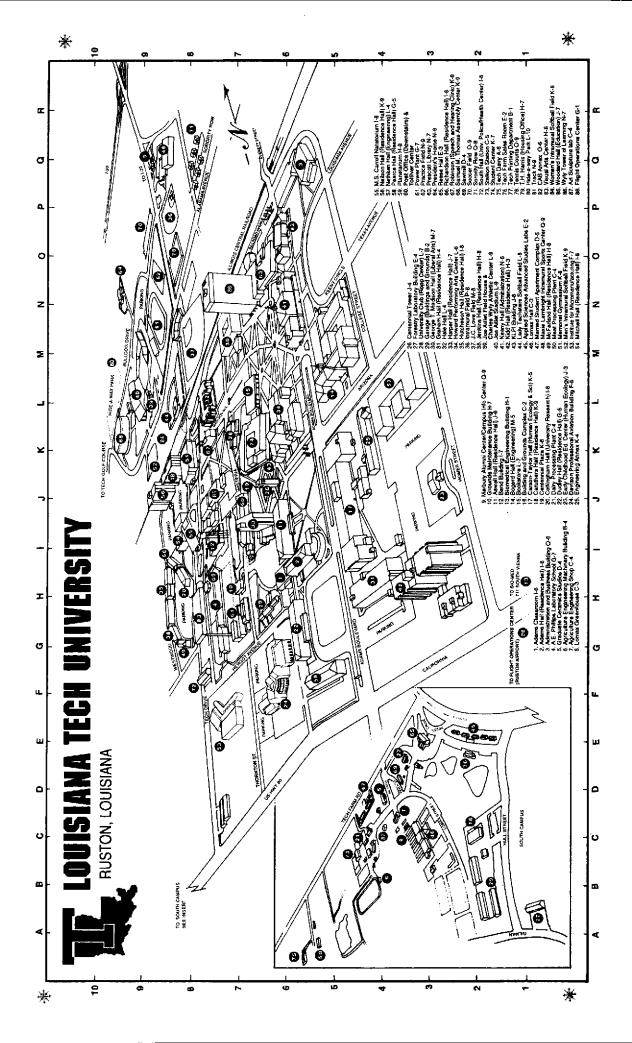
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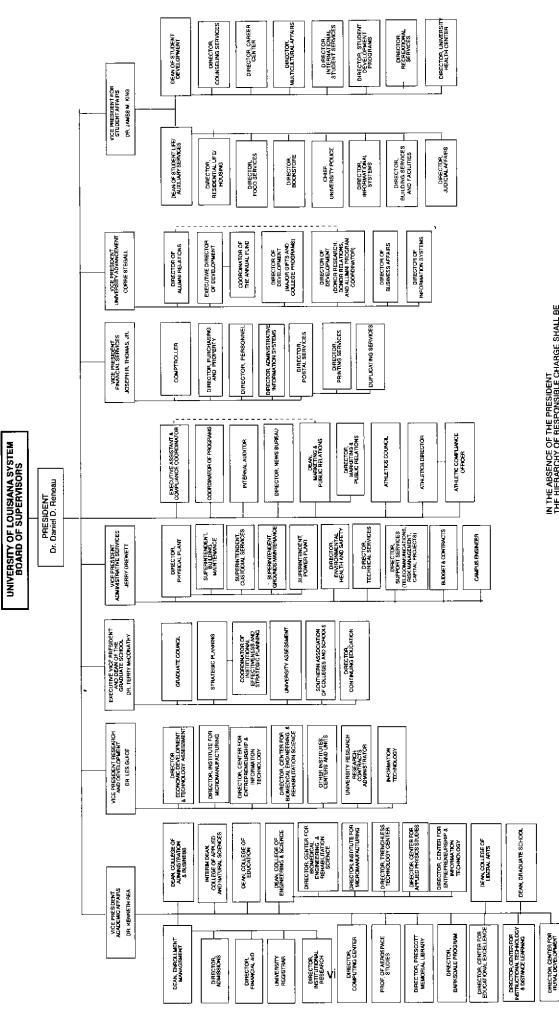
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IN THE ABSENCE OF THE PRESIDENT THE HIERARCHY OF RESPONSIBLE CHARGE SHALL BE

Accreditation

Louisiana Tech University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate, baccalaureate, master's, and doctoral degrees.

> Commission on Colleges of the Southern Association of Colleges and Schools 1866 Southern Lane Decatur, Georgia 30033-4097 Phone: (404) 679-4501

Member

American Association of Colleges for Teacher Education American Association of Collegiate Registrars and Admissions Officers (AACRAO) American Association of State Colleges and Universities American Council on Education (ACE) Association for University Business and Economics Research Conference of Southern Graduate Schools Council on International Education Exchange Institute of International Education National Association of State Universities and Land-Grant Colleges National Association of Student Financial Aid Administrators (NASFAA) Southeastern Universities Research Association, Inc. Southern Association of Collegiate Registrars and Admissions Officers (SACRAO)

Affiliation

National Commission on Accrediting National Council of University Research Administrators

Accreditation in Specific Areas

Accreditation Board of Engineering and Technology (ABET) American Chemical Society American Dietetics Association AACSB International - The Association to Advance Collegiate Schools of Business Commission on Accreditation of Allied Health Education Programs in cooperation with the Council on Accreditation of the American Health Information Management Association Commission on Accreditation/Approval for Dietetics Education of The American Dietetic Association Computing Accreditation Commission (CAC of ABET) Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association The Council for Accreditation of the American Association of Family and Consumer Sciences Council on Aviation Accreditation Engineering Accreditation Commission of ABET (engineering programs) Foundation for Interior Design Education Research (FIDER) International Association for Management Education (AACSB) National Academy of Early Childhood Programs Division of the National Association for Education of Young Children (NAEYC) National Architectural Accrediting Board National Association of Schools of Art and Design (NASAD) National Association of Schools of Music (NASM) National Council for the Accreditation of Teacher Education National League for Nursing Society of American Foresters Technology Accreditation Commission of ABET (technology programs)

UNDERGRADUATE MAJORS AND CONCENTRATIONS

DEPARTMENT (UNIT)	MAJOR	CONCENTRATION WITHIN THE MAJOR	DEGREE
	College of Administratio		
Professional Accountancy, School of	Accounting		Bachelor of Science
Computer Information Systems and Analysis	Computer Information Systems		Bachelor of Science
Economics and Finance	Business Administration		Bachelor of Science
	Business Economics		Bachelor of Science
	Finance		Bachelor of Science
Management and Marketing	Management/Business Management and Entrepreneurship		Bachelor of Science
	Management/Human Resources Management		Bachelor of Science
	Marketing		Bachelor of Science
	College of Applied and N	atural Sciences	· · · · · ·
Interdisciplinary	Environmental Science		Bachelor of Science
Agricultural Sciences	Agricultural Business		Bachelor of Science
Agricultural Sciences	Animal Science	Dairy Processing Dairy Production Equine Science General Animal Science Livestock Production Pre-Veterinary Medicine	Bachelor of Science
	Plant Sciences	The Coordinary Medicine	Bachelor of Science
		Agronomy General Plant Science Landscape and Turf Management	
Biological Sciences,	Biology		Bachelor of Science
School of		Animal Biology Applied Biology Cell and Molecular Biology Microbiology Plant Biology Pre-Dentistry* Pre-Medicine* Pre-Physical Therapy*	
	Medical Technology		Bachelor of Science
Forestry, School of	Forestry		Bachelor of Science in Forestry
	Wildlife Conservation		Bachelor of Science
Health Information	Health Information Administration		Bachelor of Science
Management	Health Information Technology		Associate of Science
Human Ecology, School of	Merchandising and Consumer Studies	Consumer Studies Merchandising	Bachelor of Arts
	Family and Child Studies	Applied Child Development Child Life Family Science	Bachelor of Science
	Family and Consumer Sciences Education—Grades 7-12		Bachelor of Science
	Nutrition and Dietetics		Bachelor of Science
Nursing, Division of	Nursing (RN Program)		Associate of Science in Nursing

DEPARTMENT (UNIT)	MAJOR	CONCENTRATION WITHIN THE MAJOR	DEGREE
X	College of Educ	ation	
Curriculum, Instruction, and Leadership	Early/Elementary Education Grades PK-3		Bachelor of Science
·	Elementary EducationGrades 1-6		Bachelor of Science
	Elementary/Special Education		Bachelor of Science
	Middle School Education—		Bachelor of Science
	Mathematics/Science Grades 4-8		
	Special Education—Early		Bachelor of Science
	Interventions†		Bachelor of Science
	Special Education—Mild/Moderate Elementary*		
	Special Education—Mild/Moderate Secondary†		Bachelor of Science
	Special Education—Severe/Profound†		Bachelor of Science
	Agriculture Education—Grades 7-12		Bachelor of Science
	Art EducationK-12		Bachelor of Arts
	Business Education—Grades 7-12		Bachelor of Science
	English Education—Grades 7-12		Bachelor of Arts
	French Education-Grades 7-12		Bachelor of Arts
	Mathematics Education-Grades 7-12		Bachelor of Science
	Music Education—K-12		Bachelor of Arts
		Instrumental Vocal	
	Biology Education—Grades 7-12		Bachelor of Science
	Chemistry Education—Grades 7-12		Bachelor of Science
	Earth Science Education-Grades 7-12		Bachelor of Science
	Physics Education—Grades 7-12		Bachelor of Science
	Social Studies Education-Grades 7-12		Bachelor of Arts
	Speech Education—Grades 7-12		Bachelor of Science
	Speech, Language, & Hearing Therapy K-12		Bachelor of Science
	Educational Services		Bachelor of Arts
Health and Exercise Sciences	Health and Physical Education	+ - ·· ···	Bachelor of Science
	Kinesiology and Health Promotion		Bachelor of Science
		Clinical Pre-Physical Therapy* Health Fitness	
Psychology and Behavioral Sciences	Psychology		Bachelor of Arts
· · · · · · · · · · · · · · · · · · ·	College of Engineering	and Science	
Biomedical Engineering	Biomedical Engineering		Bachelor of Science
		Pre-Dentistry*	
	· · · · · · · · · · · · · · · · · · ·	Pre-Medicine*	
Chemical Engineering	Chemical Engineering		Bachelor of Science
Chemistry	Chemistry		Bachelor of Science
	· · · · · · · · · · · · · · · · · · ·	Pre-Dentistry* Pre-Medicine*	
Civil Engineering	Civil Engineering		Bachelor of Science
	Construction Engineering Technology		Bachelor of Science
Computer Science	Computer Science		Bachelor of Science
Electrical Engineering	Electrical Engineering		Bachelor of Science
01	Electrical Engineering Technology	1	Bachelor of Science
Geology	Geology		Bachelor of Science
Industrial Engineering Mathematics and Statistics	Industrial Engineering Mathematics		Bachelor of Science Bachelor of Science
Mechanical Engineering	Mathematics Mechanical Engineering		Bachelor of Science
Physics	Physics	······································	Bachelor of Science
. 1170100	College of Liber	al Arte	Daeneror of Belence
Interdisciplinary	General Studies	ai 231 to	Associate of General
	· · · · · · · · · · · · · · · · · · ·		Studies
Interdisciplinary	General Studies		Bachelor of General Studies

2

DEPARTMENT (UNIT)	MAJOR	CONCENTRATION WITHIN THE MAJOR	DEGREE
Architecture, School of	Architecture (5-yr.)		Bachelor of Architecture
	Interior Design		Bachelor of Interior Design
Art, School of	Art-Graphic Design		Bachelor of Fine Arts
	Art-Photography		Bachelor of Fine Arts
	Art-Studio		Bachelor of Fine Arts
History	History		Bachelor of Arts
Journalism	Journalism		Bachelor of Arts
Literature and Language,	English		Bachelor of Arts
School of		Technical Writing	
	French		Bachelor of Arts
	Spanish		Bachelor of Arts
Performing Arts, School of	Music		Bachelor of Arts
-	Music		Bachelor of Music
		Theatre (see Speech)	
Professional Aviation	Professional Aviation		Bachelor of Science
	Aviation Management		Bachelor of Science
Social Sciences	Geography		Bachelor of Arts
	Political Science		Bachelor of Arts
		Pre-Law	
	Sociology		Bachelor of Arts
Speech	Speech		Bachelor of Arts
		Speech Communication Theatre	
	Preprofessional Speech-Language Pathology		Bachelor of Arts

* Pre-Dental and Pre-Medical requirements may be met through the curricula of each of the following departments: Biological Sciences, Biomedical Engineering, and Chemistry. The Pre-Physical Therapy requirements may be met through the curricula of both the School of Biological Sciences and the Health and Exercise Sciences Department (Kinesiology and Health Promotion –Clinical Concentration).

† Not currently accepting candidates

GRADUATE DEGREES

DEPARTMENT (UNIT)	MAJOR	CONCENTRATION	DEGREE
(01111)	Graduat	e School	
Interdisciplinary	Computational Analysis and Modeling		Doctor of Philosophy (PhD)
A	College of Administ	ration and Business	
Administration and Business	Business Administration		Doctor of Business Administration (DBA)
		Accounting Finance Management Marketing Quantitative Analysis	
	Business Administration		Master of Business Administration (MBA)
		Accounting Economics Finance General Business Management Marketing Quantitative Analysis	
Professional Accountancy, School of	Accounting		Master of Professional Accountancy (MPA)
	College of Applied a	nd Natural Sciences	• • •
Biological Sciences, School of	Biology		Master of Science
Interdisciplinary	Molecular Sciences and Nanotechnology		Master of Science
Human Ecology, School of	Family and Consumer Sciences	Early Childhood Administration Early Childhood Education Family and Child Development Family and Consumer Sciences Education Human Ecology	Master of Science
	Nutrition and Dietetics	Clinical Dietetics Community Dietetics	Master of Science
	College of		
Curriculum, Instruction, and Leadership	Curriculum and Instruction Curriculum and Instruction Educational Leadership Secondary Education		Doctor of Education (EdD)Master of ScienceDoctor of Education (EdD)Master of Arts in Teaching
		Agriculture Education Business Education English Education Foreign Language Education General Science/Biology Education General Science/Chemistry Education General Science/Earth Science Education General Science/Physics Education Mathematics Education Social Studies Education Speech Education	,
	Early Childhood Education (PK-3) Elementary Education (1-6)		Master of Arts in Teaching Master of Arts in Teaching

DEPARTMENT (UNIT)	MAJOR	CONCENTRATION	DEGREE
Curriculum, Instruction, and Leadership	Middle School Education Mathematics (4-8)		Master of Arts in Teaching
(Continued)	Middle School Education Science (4- 8)		Master of Arts in Teaching
	Special Education M/M (1-12)		Master of Arts in Teaching
	Education (Fifth Year Program)		Master of Education
		Art Education Health and Physical Education Music Education Teaching Blind Students	
Health and Exercise	Health and Exercise Science		Master of Science
Sciences		Adapted Physical Education Exercise Science Teacher Preparation	
Psychology and Behavioral	Counseling Psychology		Doctor of Philosophy (PhD)
Sciences	Counseling and Guidance	General Counseling	Master of Arts
	Educational Psychology	School Counseling	Master of Arts
	L'adeational i Sychology	Educational Diagnostician Educational Psychology Gifted/Talented Mild/Moderate Orientation and Mobility Psychoeducational Research and Education	
	Industrial/Organizational Psychology		Master of Arts
	College of Enginee	ring and Science	
Interdisciplinary Program	Computational Analysis and Modeling		Doctor of Philosophy (PhD)
Interdisciplinary Program	Engineering		Doctor of Philosophy (PhD)
Biomedical Engineering	Biomedical Engineering		Doctor of Philosophy (PhD) Joint MD/PhD program with LSU Medical Center, Shreveport, LA, is available in conjunction with the PhD in Biomedical Engineering
Interdisciplinary	Engineering and Technology Management		Master of Science
Interdisciplinary	Engineering	Biomedical Engineering Chemical Engineering Civil Engineering Electrical Engineering Industrial Engineering Mechanical Engineering	Master of Science
Interdisciplinary	Microsystems Engineering		Master of Science
Interdisciplinary	Molecular Sciences and Nanotechnology		Master of Science
Computer Science	Computer Science		Master of Science
Mathematics and Statistics	Mathematics		Master of Science
Physics	Physics		Master of Science
	College of Li	iberal Arts	
Architecture, School of	Ал	Interior Design	Master of Fine Arts
Art, School of	Art	Interior Design	Moster of Firm Ant
		Graphic Design	Master of Fine Arts
		Photography Studio	

DEPARTMENT (UNIT)	MAJOR	CONCENTRATION	DEGREE
History	History		Master of Arts
Speech	Speech		Master of Arts
t.		Speech Communication Theatre	
	Speech-Language Pathology		Master of Arts
	and Audiology	Speech-Language Pathology Audiology	
	Audiology		Doctor of Audiology (AuD)

University Academic Calendar

Academic Year 2004 - 2005

Summer Quarter 2004

March 1	International Admissions: Completed applications and transcripts due for all new international students.
May 1	Graduate Admissions: Completed applications / transcripts due to Graduate School for new graduate students.
May 1	Undergraduate Admissions: Completed applications for admission / readmission due to Office.
June 2	Summer Quarter 2004 begins.
June 2	Registration for all students who have not completed registration and fee payment.
June 3	Summer Quarter classes begin.
July 2	Fourth of July holiday begins at the end of classes.
July 6	Fourth of July holiday ends, classes resume at 7:30 a.m.
July 9	First Summer Session ends.
July 12	Second Summer Session begins.
August 13	Last day of Summer Quarter 2004 classes.
August 14	Commencement exercises - 2:00 p.m., Thomas Assembly Center.
August 14	Summer Quarter 2004 ends.

Fall Quarter 2004

June 1	International Admissions: Completed applications and transcripts due for all new international students.
August 1	Graduate Admissions: Completed applications / transcripts due to Graduate School for new graduate students.
August 1	Undergraduate Admissions: Completed applications for admission / readmission due to Admissions Office.
September 8	Fall Quarter 2004 begins.
September 8 & 9	Registration for all students who have not completed registration and fee payment.
September 10	Fall Quarter 2004 classes begin.
November 18	Last day of classes.
November 20	Commencement exercises - 2:00 p.m., Thomas Assembly Center.
November 20	Fall Quarter 2004 ends.

Winter Quarter 2004 - 2005

September 1	International Admissions: Completed applications and transcripts due for all new international students.
November 1	Graduate Admissions: Completed applications / transcripts due to Graduate School for new graduate students.
November 1	Undergraduate Admissions: Completed applications for admission / readmission due to Admissions Office.
November 30	Winter Quarter 2005 begins.
November 30	Registration for all students who have not completed registration and fee payment.
December 1	Winter Quarter 2005 classes begin.
December 17	Winter quarter holiday begins at end of classes.
January 3, 2005	Winter quarter holiday ends. Classes resume at 8:00 a.m.
January 17	Martin Luther King, Jr. holiday - all offices closed.
February 4	Mardi Gras holiday begins at end of classes.
February 10	Mardi Gras holiday ends. Classes resume at 8:00 a.m.
March 1	Last day of Winter Quarter 2005 classes.
March 4	Commencement exercises - 2:00 p.m., Thomas Assembly Center.
March 4	Winter Quarter 2005 ends.

Spring Quarter 2005

December 1, 2004	International Admissions: Completed applications and transcripts due for all new international students.
February 1, 2005	Graduate Admissions: Completed applications / transcripts due to Graduate School for new graduate students.
February 1, 2005	Undergraduate Admissions: Completed applications for admission / readmission due to Admissions Office.
March 8	Spring Quarter 2005 begins.
March 8	Registration for all students who have not completed registration and fee payment.
March 9	Spring Quarter 2005 classes begin.
March 24	Spring holiday recess begins at end of classes.
March 28	Spring holiday recess ends. Classes resume at 5:00 p.m.
May 20	Last day of Spring Quarter 2005 classes.
May 21	Commencement exercises - 2:00 p.m., Thomas Assembly Center.
May 21	Spring Quarter 2005 ends.

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Chapter 1 - University Overview

History

Tech's formal name is Louisiana Tech University, but, when it was founded in 1894, it was named Industrial Institute and College of Louisiana. Act 68 of the General Assembly called for a "first-class" school to be located in Ruston designed to educate citizens in the arts and sciences and in "the practical industries of the age." The school was located on 20 acres of land and in a single building, both donated by the city of Ruston. By September 1895, with its president and faculty of six in residence, Tech opened its door to 202 students.

The first degree offered, the Bachelor of Industry, was granted in fields as diverse as music and telegraphy. The first student to receive the degree was Harry Howard, Class of 1897. Mr. Howard was not required to go through a formal graduation program. After his qualifications were examined, Col. A.T. Prescott, the first president, awarded the degree. The first graduation exercises were not held until the following year, 1898, when ten degrees were awarded in a ceremony at the Ruston Opera House.

During the first few decades, the institution's name, purpose, and functions were modified to meet the needs of the people it served. In 1921, the school's name was changed to Louisiana Polytechnic Institute. The Bachelor of Industry degree was discarded, and the degrees standard to American education were granted. As the college increased its enrollment and offerings, continual changes were made to meet those additional responsibilities. In 1970, the name was changed to Louisiana Tech University.

Today, the University continues to prosper with an enrollment of 9,392 undergraduates from all 50 states and 28 foreign countries and 1,888 graduate students. The faculty-to-student ratio is 1:22.

The physical plant has grown to more than 130 buildings. There are approximately 260 acres on the main campus, 472 acres at the demonstration farm, 94 acres of forest land in Webster parish, 200 acres of forest land in Winn Parish, about 170 acres a few miles west of Ruston, five acres on Lake D'Arbonne, and 43.7 acres two miles west of the main campus. In addition, Tech has 149.77 acres of farm and pasture land for the animal production units.

The focal point of the campus is the Quadrangle, the center of which is a granite fountain named "The Lady of the Mist." Prescott Memorial Library (named for the University's first president), Wyly Tower of Learning, and George T. Madison Hall are at the north end of the Quadrangle. Keeny Hall (after the University's sixth president) is at the east side; Howard Center for the Performing Arts (for Tech's first graduate) is at the south side.

The Centennial Plaza was constructed in 1995. The Plaza's alumni walkway bears approximately 72,000 engraved bricks representing all Tech graduates.

The Student Center and Tolliver Hall border the west side of the Quadrangle. The newly-completed Tolliver Hall renovation provides a spacious, contemporary gathering spot for students replete with a convenience store, cyber café, student association offices, and the Spirit of Tech wall, a 120-foot art mural showcasing Tech's past and present.

Hale Hall, built in 1898, is now being reconstructed to its original architectural grandeur. When it opens in summer 2004, it will be home to the School of Architecture, Interior Design and the Office of Admissions.

Mission Statements

Louisiana Board of Regents' Mission Statement for Louisiana Tech University

Louisiana Tech University recognizes its three-fold obligations to:

- advance the state of knowledge,
- disseminate knowledge, and,
- provide strong outreach and service programs and activities.

To fulfill its obligation to advance the state of knowledge, the University will maintain a strong research and creative environment. It will fulfill its obligation to disseminate knowledge by maintaining an intellectual environment that encourages the development and application of that knowledge. Recognizing that service is an important function of every university, Louisiana Tech will continue to provide outreach programs and activities to meet the needs of the region and the state.

Graduate study and research are integral to the University's purpose. Doctoral programs will continue to focus on fields of study in which Louisiana Tech has the ability to achieve national competitiveness or to respond to specific state or regional needs.

Louisiana Tech is categorized as an SREB Four-Year 3 institution, as a Carnegie Doctoral/Research University-Intensive, and as a COC / SACS Level VI institution. Louisiana Tech is committed to graduate education through the doctorate. It will conduct research appropriate to the level of academic programs offered and will have a defined ratio of undergraduate to graduate enrollment. Louisiana Tech will not offer associate degree programs. At a minimum, the University will implement Selective II admissions criteria. Louisiana Tech is located in Region VII.

Source: Board of Regents, State of Louisiana, Master Plan for Postsecondary Education 2001.

Mission – Louisiana Tech University

Louisiana Tech University is a comprehensive public university committed to quality in teaching, research, creative activity, public service, and economic development. A selective admissions university, it offers a broad range of fully accredited undergraduate degrees to qualified students in Louisiana, as well as from the region, the nation, and foreign countries. Integral to the purpose of the University is its expanding commitment to graduate-level and interdisciplinary education in its areas of strength. Louisiana Tech offers master's degrees in a variety of areas and doctoral programs in areas of specified expertise.

Louisiana Tech maintains, as its highest priority, the education of its students. To that end, it recruits a faculty committed to teaching and advising, a student-oriented faculty dedicated to preparing students to achieve their goals in a rapidly changing economic and civic environment. The University provides, in a challenging, yet safe and supportive environment, extracurricular and athletic programs that foster and enrich the development of its students. In addition, it provides opportunities for interaction between students and the larger business and civic community. The University encourages its students to regard learning as a lifelong process.

Recognizing that research and service are fundamental to its mission, Louisiana Tech recruits and retains a faculty who see research and teaching as intertwined, complementary, and interdisciplinary and who, through both theoretical and applied research and creative activities, contribute to the development of new knowledge, new art, and new technology.

Louisiana Tech understands its community and civic obligations. Through on-campus learning, through its offcampus presence, through outreach programs and continuing education, the University will continue to enhance the quality of life and the economic development of the region, state and nation.

As a University with a rich engineering heritage, Louisiana Tech has a special responsibility to integrate advanced technology into teaching and learning. At Tech, advanced technology supports quality teaching, research, administration, and service. The University is committed to providing its students with the advanced technological skills that will help to ensure their success both in the internal environment of the University and in the wider surrounding community.

Intercollegiate Athletics Statement of Purpose (Mission Statement)

Louisiana Tech University is committed to an intercollegiate athletics program that embodies academic, athletic, and financial integrity. This constancy must be manifested primarily in an athletics program that is always in concert with the overall mission of the University and complements the values and goals of higher education. As part of the total educational process at Louisiana Tech, the intercollegiate athletics program should bring pride, admiration, and loyalty to the University. In this context, the Louisiana Tech intercollegiate athletics program will benefit the student body, alumni, faculty, staff and community through the development of esprit de corps. The soundness of the athletics program must be evident in a commitment to enhance the educational growth and development of student-athletes and to abide by the letter and spirit of the rules and regulations set forth by the National Collegiate Athletic Association and the Western Athletic Conference.

Specific goals of the Louisiana Tech University intercollegiate athletics program include the following:

- 1. To conduct the athletics program in harmony with the educational goals, values, practices, and missions of Louisiana Tech.
- To look to the President of the University for authority and direction in the administration of the athletics program.
- 3. To seek intellectual and vocational development of student-athletes and to enable them to meet the demands of academic competition successfully with the assistance of an academic support program.
- 4. To provide all student-athletes equal opportunity to pursue academic and athletics excellence.
- 5. To recruit student-athletes who have demonstrated the academic ability to be successful in college.
- 6. To allow student-athletes to participate in athletics only when they are able to demonstrate satisfactory progress toward a degree as outlined in the standards set forth by the NCAA and University academic policies.
- 7. To provide student-athletes the assurance that their education is of the utmost importance and to confirm that unsatisfactory academic achievement shall be neither accepted nor excused.
- To strive for success at the conference, regional, and national levels in all atbletics programs whenever possible.
- 9. To maintain a coaching staff who represents the best in

athletic institution; who possess the ability to motivate and inspire the student-athletes in their charge; and who are selected without regard to their race, color, creed, sex, age, handicap, or national origin.

- 10. To always conduct the business of intercollegiate athletics in such a manner as to reflect pride and integrity for the University, alumni, and community, and to ensure that intercollegiate athletics will be an honorable tradition at Louisiana Tech University and in North Louisiana.
- 11. To envision increased external funding, improved graduation rates for all student-athletes, enhanced academic services for all student-athletes, increased life-skills education opportunities for all studentathletes, and the continuation of programs toward achieving gender equity in athletics.

Strategic Plan 2001-2002 to 2005-2006

Louisiana Tech University's Strategic Plan is an integral part of the University's Management Plan. The following are Tech's overarching goals which direct the current Strategic Plan and Operational Plans:

Goal 1: Increase opportunities for student access and success.

Goal 2: Ensure quality and accountability.

Goal 3: Enhance service to the community and state.

The Strategic Plan is available at <u>www.latech.edu/tech/</u><u>administration/policies-and-procedures/links.html</u>.

Equal Opportunity Policies

Louisiana Tech University adheres to the equal opportunity provisions of federal civil rights laws and regulations that are applicable to this agency. Therefore, no one will be discriminated against on the basis of race, color, national origin, age (Title VII of the Civil Rights Act of 1964), sex (Title IX of the Education Amendments of 1972), or disability (Section 504 of the Rehabilitation Act of 1973, as amended); the American with Disabilities Act of 1990, and the Civil Rights Act of 1991 in the pursuit of educational goals and objectives and in the administration of personnel policies and procedures.

Admissions

Louisiana Tech University assures equal opportunity for all qualified persons regardless of race, creed, sex, color, religion, physical or mental handicap, national origin, age, marital status, or veteran's status in admission to the University.

Disability Services

The Office of Disability Services (Wyly Tower 319) coordinates campus-wide efforts to provide information and services to Louisiana Tech students with disabilities. Inquiries concerning services for students with disabilities should be directed to the Office of Disability Services, the Admissions Office, or the Office of Academic Affairs. Services are available to students who provide appropriate documentation to the Office of Disability Services. Any student with a documented disability condition (e.g., physical, learning, psychiatric, vision, hearing, etc.) requesting classroom accommodations should contact the instructor(s) and the Office of Disability Services at the beginning of each quarter. (www.ods.latech.edu).

Employment

Louisiana Tech University is committed to the principle of providing the opportunity for learning and development of all qualified citizens without regard to race, sex, religion, color, national origin, age, disability, marital status, veteran's status for admission to, participation in, or employment in the programs and activities which the University sponsors or operates. The President of the University has established the policy that all employment practices will be continually monitored to ensure that all University administrators, deans, directors, department heads, and other budget unit heads take positive action in complying with the goals of equal employment opportunity.

Family Educational Rights and Privacy Act (FERPA)

The following statement is issued in compliance with the Family Educational Rights and Privacy Act (FERPA) of 1974:

Louisiana Tech University is responsible for effectively supervising any access to and/or release of official information about its students. Certain items of information about individual students are fundamental to the educational process and must be recorded. This recorded information concerning students must be used only for clearly defined purposes, must be safeguarded and controlled to avoid violations of personal privacy, and must be appropriately disposed of when the justification for its retention no longer exists. In this regard, Louisiana Tech is committed to protecting to the maximum extent possible the right of privacy of all the individuals about whom it holds information, records, and files. Access to and release of such records is restricted to the student concerned, to others with the student's written consent, to officials within the University, to a court of competent jurisdiction, and otherwise pursuant to law.

Student Representation in University Activities

Louisiana Tech University is committed to providing a quality educational experience for students both within and outside the classroom. A high degree of interaction among students, faculty, and the University community is desired. The student presence found in numerous University committees demonstrates the importance of a student voice in key University decision making. Some committees having student representation include: Administrative Council, Administrative Review Board, Athletics Council, Behavioral Standards Committee, Graduate Council, Instructional Policies Committee, Library Advisory Committee, Parking and Traffic Committee, Radiation Committee, Research Council, Student Organizations Committee, University Multicultural Committee, University Student Health Council, and University Tour Committee.

Louisiana Tech University is required by accrediting agencies to evaluate the effectiveness of its academic programs and student services. Student participation is required through opinion surveys and standardized tests such as the student opinion survey, alumni survey, standardized test for general education, and standardized test for major field evaluation.

Emergency Announcements from the University Through the Media

It can be assumed that Louisiana Tech is in session in accordance with the published calendar, schedules, and Catalogs unless otherwise announced through the news media as authorized by the President or his designee. Such announcements will state one of the following:

"Louisiana Tech University is closed." This means that no classes are being held and only certain designated Building and Grounds maintenance staff are on duty.

"Classes are dismissed. All offices are open." This means all employees other than nine-month faculty are on duty.

Chapter 2 - Undergraduate Admissions

Undergraduate Admissions Overview

Louisiana Tech University operates on a quarter calendar granting credit in semester hours. Qualified applicants may initiate their enrollment at the beginning of any quarter. Requests for information and application forms for undergraduate admission and readmission should be directed to:

Louisiana Tech University Office of Admissions P.O. Box 3178 Ruston, Louisiana 71272-0001 or

Louisiana Tech University web site: www.latech.edu

Application packets are routinely sent to students who have scores on the American College Test (ACT) or Scholastic Aptitude Test (SAT) sent to the University. Applications are also available at most high schools.

Applicants must submit ACT or SAT scores or both. Although scores are self-reported on the application, official notice of receipt of scores must be received directly from the testing agency or on an official transcript from the high school. Scholarship applicants must take the ACT or SAT at least by December of the senior year of high school.

High school and college transcripts must be official documents bearing the stamp or seal of the issuing institution. All high school transcripts should show a graduation date, grade point average, and class rank. Freshmen applicants may submit a 6- or 7-semester transcript for admission and scholarship decision. A final transcript must be received prior to enrollment.

Arrangements for admission, housing, and need-based financial aid are made separately through the Admissions Office, Housing Office, and Financial Aid Office, respectively. Filing an application for admission does not entitle an applicant to University housing or financial aid; nor is the filing of a housing application, the assignment to a room, or the award of financial aid a commitment of admission to the University.

Applicants enrolled at the main campus must submit a medical history form prior to enrollment. A nonrefundable application fee of \$20 must accompany the application for admission. International students should submit a \$30 application fee. All persons previously banned for disciplinary reasons or misconduct or criminal activities cannot register without the specific approval of the Vice President for Student Affairs.

Immunization Policy

Louisiana state law (Act 1047), requires all new students born after December 31, 1956, to provide proof of immunization against measles/mumps/rubella (MMR) and tetanus/diphtheria (TD). Forms for documenting immunization or establishing an exemption to this requirement are available from the Office of Admissions. Proof of immunity includes documentation of:

- two measles vaccines administered after January 1, 1968, one of which must have been given on or after the first birthday.
- a mumps and rubella vaccine.
- a tetanus/diphtheria combination within the past 10 years.

In the event of an outbreak of measles, mumps, or rubella, students who have not provided documentation of immunity will

be excluded from attendance of campus activities, including classes, until the appropriate disease incubation period has expired.

Admission Requirements and Procedures

All students are encouraged to apply for admission. Louisiana Tech University may admit students not meeting all stated requirements. In such cases, the admission decision will be affected by the student's potential for degree completion and the need to enhance the University's demographically diverse student population. Some factors to be considered may include age, experience, ethnic background, and creative talent.

All high school grade point averages are calculated by the Admissions Office under uniform policies on a 4.00 scale, considering only those courses which meet the University's course requirement. For scholarships, the University may take into consideration special designation on high school transcripts, such as honors and advanced placement courses.

Freshman Admission

Applicants for freshman admission and all applicants who have earned fewer than 24 semester hours of college credit must show proof of graduation from an accredited high school or have successfully completed the General Education Development Test (GED). No student with an ACT composite less than 15 will be admitted. Students who meet <u>one</u> of the following requirements may be admitted:

- 1. High school grade point average of 2.3/4.00. OR
- 2. High school rank in the upper 35% of the graduation class. **OR**
- 3. ACT composite of at least 22 or 1020 SAT.

Home-Schooled Students must have a minimum ACT composite of 22 (SAT 1020), and a high school transcript documenting completion of high school work. The following represent the high school courses normally required for admission:

Subjects	Units	
English	4	Courses emphasizing grammar, composition, and literature (English I, II, III, IV)
Mathematics	3	Two units of algebra; one unit of geometry or a higher level of math for which algebra is a prerequisite
Social Studies	3	One unit must be American history
Science	3	Chemistry, physics, and biology preferred
Electives	4 1/2	Recommended from: foreign languages, social studies, science, math, speech, advanced fine arts, and computer literacy. No more than 3 elective units may be in vocational subjects.
TOTAL	17 ½	

Freshmen applicants who intend to enroll in the Fall should apply by July 1 to be considered for priority enrollment and have ACT or SAT scores and high school transcripts on file. All freshmen are strongly encouraged to participate in the orientation program. Orientation includes testing for placement, the opportunity to meet with a faculty advisor, and completion of registration for the Fall. Announcements of dates and other information are sent to admitted students.

Transfer Admission

Students desiring to transfer to Louisiana Tech University with fewer than 24 semester hours of college-level course work must meet the same requirements as an entering freshman and be eligible to re-enter the institution from which he/she is transferring. Students who have completed 24 or more semester hours of college-level course work must have a minimum overall grade point average of 2.0 (on a 4.0 scale). Students transferring must submit an application and a complete, official transcript from each college attended, whether credit was earned or transferrable. Transcripts must be mailed directly from the college/university to Louisiana Tech. Students who fail to acknowledge attendance at any college or university in which they have been registered are subject to having their admission canceled or, if enrolled, to being dismissed from Louisiana Tech. Evaluations concerning probation, suspension, grades, grade point average, hours pursued, and hours carned are based on Louisiana Tech's standards regardless of prior determinations at the other institutions attended.

No student is admitted if under scholastic or disciplinary suspension from another college or university. A suspended student will not be considered for admission until the time interval of suspension has elapsed; where such interval is not clearly defined, it is equal to a period comparable to rules in place at Louisiana Tech.

Provisional status may be granted prior to scheduled registration dates on an individual basis. Provisional status is based on incomplete or unofficial transcripts, and, if the required transcripts are not received by the end of the first quarter, the student will not be permitted to attend subsequent quarters. When the required transcripts are submitted and if the student is determined to have been ineligible, no credit will be awarded for the initial quarter. No credit earned while under suspension from another institution is accepted toward a degree at Louisiana Tech. Official Louisiana Tech academic transcripts are not provided to any student with incomplete admissions records.

Accreditation status of transfer institutions is confirmed through the publications Transfer Credit Practices of Designated Educational Institutions and Accredited Institutions of Postsecondary Education. Transfer course work is posted from official transcripts received directly from institutions accredited by the following associations:

- Middle States Association of Colleges and Schools
- Northwest Association of Schools and Colleges
- North Central Association of Colleges and Schools
- New England Association of Schools and Colleges,
- Commission on Institutions of Higher Education
- Southern Association of Colleges and Schools/Commission on Colleges
- Western Association of Schools and Colleges

While all transfer course work is posted, the applicability of specific courses for the chosen curriculum is determined by the academic department head in conjunction with the college dean.

Louisiana Tech computes the grade point average (GPA) on all courses attempted, including repeated courses, courses with incomplete grades, and those with any other grades, except grades of W, WA, WB, WC, WD and No Credit. Under this system:

Grade	Number of Quality Points:
A	4 quality points
B	3 quality points
Ċ	2 quality points
D	1 quality point
F	0 quality points
The sym	bols "+" and "-" are disregarded

A maximum of 68 semester hours from a junior college or community college may be applied toward a bachelor's degree at Louisiana Tech. Normally, only courses taught at the freshman/sophomore level at Louisiana Tech are accepted from a junior/community college toward a degree at Louisiana Tech.

For students transferring from one Louisiana college or university to another Louisiana college or university, there is a Statewide Student Transfer Guide that indicates transfer equivalencies. These transfer matrices may be accessed through Louisiana Board of Regents' webpage the at www.regents.state.la.us. Please be advised that the matrices are not all-inclusive. There are additional courses that are articulated between specific campuses. The Admissions Office at Louisiana Tech can assist you with individual transfer credit evaluations. Further, Louisiana Tech courses that are on the Statewide Student Transfer Guide are indicated as such in the Course Description section of this catalog. Statewide articulated courses are generally courses that are accepted for general education transfer credit. A particular course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major.

Readmission Students

Applicants for readmission to Louisiana Tech must complete an application for admission when the student has not been enrolled for one or more quarters (except for the Summer Quarter).

Readmission students who have attended another college/university since they were last enrolled at Louisiana Tech must submit an official transcript from each college/university. Transcripts must be mailed directly from the college/university to Louisiana Tech. If the required transcripts are not received by the end of the first readmitted quarter, the student will not be permitted to attend subsequent quarters. If the required transcripts are submitted and the student is determined to have been ineligible for readmission, no credit will be awarded for that quarter. Official Louisiana Tech academic transcripts will not be provided to any student with incomplete readmission records.

International Admission

All undergraduates whose first language is not English must take the Test of English as a Second Language (TOEFL) and score higher than 173 on the computer-based test in order to be admitted. Applicants must submit academic records from their country that are at least equivalent to the admission requirements for American students. Students who take the TOEFL are not required to take the ACT (except for architecture applicants), but it is strongly advised for placement purposes. Students from English speaking countries must take the ACT. All students must provide proof of financial support in accordance with Immigration regulations. All other Immigration and Naturalization Service requirements must be met for admission. All admitted students must have sufficient knowledge of the English language to benefit from a program of study. All undergraduates whose first language is not English must take the TOEFL. Undergraduate applicants who score 500 or more on the exam and who meet all other admission qualifications may proceed with an academic program.

Applicants from foreign countries must meet the guidelines set forth in Louisiana Tech's International Admission publication. Contact the Admissions Office for a copy.

Visiting and Special Admission

Admission under these criteria is limited to a specific program for one quarter. The student is not regularly admitted to the University, not eligible for financial aid, nor approved to pursue a curriculum. No transcripts are required. Transferable credit will be awarded. If at a future date the student wishes to transfer to Louisiana Tech, the regular admissions procedures and requirements must be followed.

Inter-Institutional Cooperative Program (ICP)

Louisiana Tech University and Grambling State University facilitate a cooperative program, the Inter-institutional Cooperative Program (ICP), which enables free student exchange between the two institutions. This makes it possible for students to enroll for courses at both universities. Faculty exchange between the two institutions is also a part of the program.

Application for courses to be taken on the cooperating campuses must be made at the institution where admissions requirements have been met and degree programs are being pursued. Credits gained as an ICP student may apply toward a degree at the home or matriculation university. The student's divisional dean or authorized representative must approve the course or courses selected and the course load. A copy of the student's report card bearing the official seal will be furnished to the home institution at reporting time by the visited institution. Credit from the ICP classes is reported on the home school's transcript as transfer work. To be eligible to participate in the ICP program, a student must pay full-time tuition at the home institution. ICP students receive services from the Division of Student Affairs at the home institution, the institution where admissions requirements have been met and degree programs are being pursued.

(Louisiana Tech Barksdale, extension classes, and credit exams are not included in the ICP program.)

Early and Concurrent Admission

High school students may be considered for *early admission* to the University if the following requirements are met:

- an overall academic average of 3.0 (B) or better on all work pursued during 3 years (6 semesters) of high school;
- a minimum ACT composite score of 25 (1130 SAT V+M) submitted prior to June 1; and,
- recommendation by the high school principal.

The student may be enrolled full- or part-time. Upon earning a minimum of 24 semester hours at the University, the student is issued a diploma by the high school last attended.

A student may be eligible for *concurrent admission* to the University if the following requirements are met:

- an overall academic average of 3.0 (B) or better on all subjects taken during the previous 2 years;
- a preferred ACT composite score of 22 (1020 SAT V+M) submitted to the University; and,
- recommendation by the high school principal.

The student may enroll in one University course per quarter. Upon admission to the University as a freshman, the credits earned in this program may be used to satisfy degree requirements.

Forms for these programs can be obtained through the Admissions Office.

Summer Enrichment Program for High School Students

The Summer Enrichment at Tech (SET) program is designed to enable capable high school juniors to invest the summer between their junior and senior years in University studies. For nearly 40 years, SET has been an outstanding success. Special effort is made to choose courses that will not conflict with twelfth-grade high school courses.

Grades and credits are recorded by the Registrar but will be validated to the student's transcript only after application for validation of the credits.

For more information on SET write to: Summer Enrichment at Tech P.O. Box 3178 Louisiana Tech University Ruston, Louisiana 71272-0001

Summer Scholars Program

Students with exceptional academic records may participate in Louisiana Tech's *Summer Scholars Program*, which allows students who will be entering freshmen in the Fall to get an early start by enrolling in the Summer Quarter. Special scholarships are available for qualifying students.

Summer Orientation Program

Orientation programs are held under the direction of the Division of Admissions, Basic and Career Studies.

New freshmen who have been accepted for the Fall Quarter are encouraged to attend one of four sessions of summer orientation. Each student selects courses and completes registration for the Fall Quarter, except for payment of fees. Close academic direction and personal attention are accomplished through faculty advising. A special program for parents is available in order to make the transition from high school a smooth and orderly process for students and parents. Two special sessions for transfer students are also conducted.

A mini-orientation is held on the day preceding the beginning of each quarter for all new students. Information is given to assist students with registration and to enhance their college experience.

Louisiana's Residency Regulations

The residency status of an applicant or student is determined in accordance with the University of Louisiana System regulations and is based upon evidence provided in the application for admission and related documents. Residency status for undergraduate students is determined by an Admissions Officer after the completed application for admission has been submitted. Graduate students must apply through the Graduate School.

The regulations are based primarily on the location of the home and the place of employment. Residency status may not be acquired by an applicant or student while residing in Louisiana for the primary purpose of attending school. Residency status is not determined for graduate students registered for 3 semester hours or less and undergraduate students registered for 6 semester hours or less.

All students classified incorrectly as residents are subject to reclassification and payment of all non-resident fees not paid. If incorrect classification results from false or concealed facts by the student, the student is also subject to university discipline.

It is the student's responsibility to provide Louisiana Tech with such evidence as deemed necessary to establish the student's residency status.

Any student classified as a nonresident may appeal his/her classification to Louisiana Tech University's Appeals Committee. An appeal form may be obtained from and submitted to the Admissions Office, Room 221, Wyly Tower.

If an appeal is approved, it becomes effective during the quarter in which the appeal is approved. If the appeal is the result of a mid-quarter change in status (e.g marriage), the appeal becomes effective for the following quarter.

The following conditions may be used in determining residency status:

- 1. An applicant living with his/her parents is classified as a resident if the parents have established a bona fide residence in Louisiana. Ordinarily, a parent is considered to have established a residence in Louisiana if the parent actually resides and is employed full-time in the state. A parent who is unable to be employed or who is a housespouse may be considered to have established a residence in Louisiana if there is convincing evidence that the parent continuously resides in Louisiana. If only one parent qualifies as a resident of Louisiana, the student shall be classified as a resident provided that the student resides with the parent who is a resident of Louisiana. An individual who resides in Louisiana and is employed fulltime in another state may be classified as a resident. In such cases, appropriate documentary evidence must be presented.
- A student residing with his/her parents who enrolls as a nonresident is classified as a resident if his/her parents move to Louisiana and acquire residence as defined in these regulations.
- 3. A student may be declared a resident if either parent is a graduate of Louisiana Tech. A student who graduates with an associate's or higher degree may be classified as a resident for subsequent enrollment at Louisiana Tech.
- 4. A person may be classified as a resident of Louisiana at the end of 12 consecutive months of residence if he/she has been employed full time in Louisiana, and if during that period he/she has not been registered at Louisiana Tech University for more than 3 semester hours or its equivalent in any quarter (this number of semester hours could be 6 per semester at other educational institutions in Louisiana). A person who is unable to be employed and has not heen registered in any educational institution for more than 6 semester hours, or its equivalent in any semester (3 semester hours at Louisiana Tech) may acquire residence in Louisiana.
- 5. A student who is married to a Louisiana resident may acquire the residence status of his/her spouse.
- 6. A person who resides in Louisiana for at least two years, exclusive of military service, and then moves to another state or foreign country retains the right to enroll as a resident (including dependents) for a period equal to the number of years residing in Louisiana. The right shall

expire upon the person's residing for a period of two years in another state or foreign country.

- 7. A member of the Armed Forces currently stationed in Louisiana and his/her dependents shall be classified as Louisiana residents. Service personnel who were stationed in Louisiana immediately prior to their release from active duty may enroll as Louisiana residents (including dependents), during a period not to exceed six months after the date of release provided that their term of active duty shall have been not less than 12 consecutive months.
- 8. A member of the Armed Forces who was a resident of Louisiana immediately prior to entering the Armed Forces retains the right for him/her or any of his/her dependents to be classified as a resident as long as he/she is in the Armed Forces and for a two-year period after leaving the Armed Forces.
- 9. A resident of Louisiana does not lose the right to be classified as a resident during periods of employment in a foreign country.
- 10. An alien who has been lawfully admitted to the U.S. for permanent residence as an immigrant (proof of such status in his/her possession of two valid forms: I-151-Alien Registration Receipt Card or passport stamp evidencing temporary Alien Registration Receipt Card) and he/she has established residence under any of the foregoing provisions shall be declared a resident of the state.

Bulldog Out-of-State Fee Scholarship

Undergraduate students who are not residents of Louisiana may apply for a Bulldog Scholarship, which covers all out-ofstate fees, provided they meet the academic qualifications. Contact the Office of Admissions for more information.

Academic Renewal

Undergraduate students who have dropped out or have been suspended because of poor academic performance may request to start over with the status of an entering freshman at Louisiana Tech University under the provisions of academic renewal. The following conditions apply.

- 1. At least three consecutive calendar years must elapse between the end of the quarter in which the student was last registered for credit at any college or university and being enrolled under academic renewal.
- 2. The student must submit a written application for academic renewal to the Academic Renewal Subcommittee of the Enrollment Management Council at the following address:

Enrollment Management Council Louisiana Tech University P.O. Box 3178 Ruston, Louisiana 71272-0001

This application must be received by the subcommittee by the end of the official last class day of the first quarter of attendance at Louisiana Tech. It should also indicate any circumstances that have changed since the last enrollment, which would support a reasonable expectation of the candidate's academic success.

- 3. The Academic Renewal Subcommittee will review the application and determine the candidate's eligibility for renewal prior to the end of the student's first quarter of enrollment at Louisiana Tech.
- 4. No prior academic credit carries forward as part of a degree program; however, the prior record remains a visible part of

the student's transcript.

- 5. If granted, the date of academic renewal is entered upon the transcript along with a statement prohibiting use of previously earned credits and quality points to meet degree requirements, to compute the grade point average leading toward undergraduate certificates or degrees, or to determine graduation status.
- 6. Upon being granted academic renewal, the student has status as an entering freshman with no credits attempted and no quality points earned.
- 7. A student who demonstrates competency in a given area may be allowed advanced standing (without credit) or a waiver of requirements just as any entering freshman. Credit exams may be taken for courses in which grades of C or higher were earned.
- 8. Academic renewal may be granted to a person only once, regardless of the institutions attended.
- 9. Students are cautioned that many undergraduate professional curricula, graduate, and professional schools compute the undergraduate grade point average over all hours attempted when considering applications for admission.
- 10. Transfer students who have previously been granted academic renewal will use the application procedure described above for consideration of transfer of renewal.
- 11. Academic renewal does not pertain to accumulated financial aid history. Accumulated quarters and award limits include all quarters on enrollment.

Placement Requirements for English, Mathematics, and University Seminar

Placement in entry-level college courses is based on the Enhanced ACT/SAT test scores. If no scores are on file in the Office of Admissions or the Office of the Registrar, the score will be considered to be 0 in all areas at the time of admission and registration. Registration information for the ACT can be obtained through Student Services, Keeny Hall 310.

New Freshmen

Subject	Criteria	Placement
English	English ACT less than or equal	Placement in
-	to 16, or Verbal SAT less than	English 099
	or equal to 420	
	English ACT 17-18 inclusive, or	Placement in
	Verbal SAT 430-450 inclusive,	English 100*
	or successful completion of	
	English 099	
	English ACT greater than or	Placement in
	equal to 19, or Verbal SAT	English 101
	greater than or equal to 460.	
	English ACT greater than or	ENGL 101 credit
	equal to 30, or Verbal SAT	granted if English
	greater than or equal to 680	ACT/Verbal SAT
		score earned within
		the previous 5 yrs.

*English 100 serves as a replacement for English 101 for students required to enroll in English 100.

Subject	Criteria	Placement
Math	Math ACT less	Placement in Math 099. Not eligible
	than or equal to	for Math Placement Exam
Ļ	15, or Math SAT	
1	less then or equal	
[to 370	
	Math ACT 16-17	Placement in Math 099 or take and
	inclusive, or Math	pass Placement Exam A** to place
	SAT 380-420	in Math 100*.
	inclusive	

Math A	CT 18-21	Placement in Math 100*. No
inclusive	or Math	placement exam is available for
SAT	430-510	bypassing Math 100.
inclusive		
Math A	CT 22-23	Placement in Math 101. Not eligible
inclusive	, or Math	for Math Placement Exam.
SAT	520-550	
inclusive	1	
Math A	CT 24-25	Placement in Math 101 or take and
inclusive	, or Math	pass Placement Exam B to earn
SAT	560-580	credit for Math 101. Advance
inclusive		preparation is necessary for the
		exam **.
Math AC	T greater	Credit for Math 101 is granted if
than or	equal to	Math ACT/SAT score was earned
26, or N	1ath SAT	within the previous five years.
greater	than or	Eligible to enroll in Math 101 or
equal to 2	590	Math or Statistics course that has
Į .		Math 101 as the only Math
		prerequisite. If such a student desires
		to begin with Math 220 as the first
		Math course, Placement Exam C is
		required to carn credit for Math 112.
		Advance preparation is necessary for
		the exam.
NOTE: Permission	n to take a	a placement/credit exam in a given

NOTE: Permission to take a placement/credit exam in a given course will be denied those students who have previously attempted the course and/or the placement/credit exam. Refer to the *Louisiana Tech Credit Exam* sections of this Catalog for additional information.

*Math 100B-C serves as a replacement for Math 101 for students required to enroll in Math 100.

**Various review materials for the Math Placement Exams are available free of charge at www.rehanna.pageout.net.

Select the desired course, then "Syllabus," then select "Instructions for Accessing Review Materials." Print the instruction sheet and follow the stated instructions.

Subject	Criteria	Placement
University	Reading ACT less than or	Placement in University
Seminar	equal to 17, or Verbal +	Seminar 101 (3 credit
	Math SAT less than or	hours)
	equal to 850	,
	Reading ACT greater than	Placement in University
	or equal to 18, or Verbal +	Seminar 100 (1 credit
	Math SAT greater than or	hour)
	equal to 860	,

Transfer students must satisfy the same placement requirements as beginning freshmen with the exception of University Seminar:

University Seminar - Transfer Student Placement

ACT/SAT Score	Course Placement
0-17 Reading ACT, 0-850 Verbal + Math SAT, and transferring in fewer than 24 credit hours	Must enroll in University Seminar 101 (3 credits)
18 or higher Reading ACT, 860 or higher Verbal + Math ACT, and transferring in fewer than 24 semester credit hours	Option to enroll in University Seminar 100 (1 credit)
All students who transfer in 24 or more semester credit hours	Option to enroll in University Seminar 100 (1 credit)

Developmental Education Program

This program is intended to assist academically under prepared students in developing their abilities to meet the requirements of college-level courses. The components of this program are courses numbered 099 in English and mathematics.

A student who places in any of the developmental (099) courses must register in those courses if there are openings

available in them before he/she registers for any college-level courses. All courses in the Developmental Education Program should be completed in the first four quarters of attendance for full-time students. A maximum of 3 attempts at a given developmental course will be allowed. The student will be dismissed from the University if this time limit is not met.

Class attendance in the Developmental Education Program is mandatory. After 4 unexcused absences, the student will automatically be given a grade of F in the course. Withdrawal from the developmental education classes will not be permitted unless there are extenuating circumstances. If he/she needs to reduce his/her course load, the student will be required to drop any regular courses before any courses in the Developmental Education Program are dropped.

No credit is allowed in any curriculum for any courses with a catalog number beginning with 0 (e.g., English 099).

University Seminar

University Seminar is a 1- to 3-credit hour course for entering freshmen and select transfer students. The course is designed to orient new students to the University environment and provide information about available campus resources. The course is taught by instructors from all walks of the University. Instructors present information about campus resources, time management, and academic regulations as well as lectures on a variety of topics including health, stress, safety, campus involvement, and career development. Additionally, University Seminar 101, which is the 3 credit hour format, builds reading and study skills fundamentals that are essential for success in college.

The Honors Program

Louisiana Tech's Honors Program is designed to meet the needs of students of exceptional ability and motivation. Honors students may take special Honors classes, which are usually small and taught by some of the best and most innovative faculty. Smaller classes and challenging professors provide greater interaction between students and faculty and among the students themselves. They also make it possible for professors and students to explore topics in greater depth or at a higher level of sophistication than in regular classes. In addition to special classes, Honors students enjoy a number of privileges including priority registration, designated housing, and access to social, academic, and cultural events designed specifically for them.

Honors students may also work toward formal recognition of superior achievement in two ways:

- 1. Honors students who complete the Foundations 21 curriculum receive an Honors Scholar designation on their official academic transcript, an Honors Scholar certificate, and recognition for their achievement at graduation.
- Honors students may also receive Senior Honors Scholar designation by completing 9 semester hours of Honors classes at the 400-level, including a senior thesis.

Students entering Louisiana Tech as freshmen, who have a composite score of 26 on the ACT (or a comparable score on the SAT) and/or graduated in the top 10% of their high school graduating class are invited to apply to the Honors Program. Students who do not meet these requirements but who wish to join the Honors Program will be considered on an individual

basis. Continuing or transfer students above the classification of freshman may apply with a cumulative GPA of 3.3 or better.

For more information, contact: Dr. Donald P. Kaczvinsky, Director The Honors Program P. O. Box 10078 Louisiana Tech University Ruston, Louisiana 71272-0001

Honors Curriculum - Foundations 21

The Honors curriculum is called Foundations 21 and comprises 12 semester hours from four interdisciplinary seminars—Foundations of Ancient, Medieval and Renaissance, Modern, and American Civilization. These seminars are taken in the freshman and sophomore year and fulfill the General Education Requirements (GER) in history and English. The remaining 9 semester hours are taken in designated honors courses from the remaining disciplines (Foreign Languages, Mathematics, Computer Literacy, Natural Sciences, Arts, and Social Sciences) for a total of 21 of the 45 semester hours of required GER courses needed for baccalaureate degree candidacy. Upon completion of the 21 hours students receive an Honors designation on their academic transcript and an Honors Scholar Certificate.

Students may further take 6 hours of Honors course work. These classes may also count within the student's major area of specialization with permission of the department head and the Director of the Honors Program. Students must receive at least a **B** grade if the seminar is to count for honors credit. After 6 hours, students write a senior thesis (3 credit hours), supervised by an appropriate Honors faculty member in the student's area of specialization. This qualifies them as a Senior Honors Scholar. When complete, Senior Honors status is designated on the student's academic transcript.

Found	lations	21 Cu	rriculum

Year	Course Work	Credits Earned
Freshman	Ancient Civilization	3 credit hours
	Medieval and Renaissance Civilization	3 credit hours
	Seminars or designated Honors classes	3 credit hours
Sophomore	Modern Civilization	3 credit hours
	American Civilization	3 credit hours
	Seminars or designated Honors	
	Seminars	6 credit hours
Senior	Designated Honors Seminars	
	(300-400 level)	6 credit hours
	Senior Honors Thesis	3 credit hours

Chapter 3 – Academic Policies

Student Classification

A regular student is one who has satisfied all entrance requirements, is qualified to pursue a curriculum leading to a degree, and is pursuing one of the prescribed curricula of the University.

A full-time undergraduate student is one enrolled in at least 8 semester hours for the quarter, excluding credit examinations and audited courses. An undergraduate student enrolled in 4 semester hours during a six-week period in the Summer is also considered full-time.

A part-time undergraduate student is one enrolled in fewer than 8 semester hours for the quarter.

A visiting student is one who has not been regularly admitted to the University and is not approved to pursue a curriculum. This admission is for one quarter. A student is not eligible to register for an additional quarter under the visiting student classification without reapplying.

A transfer student is one who has previously enrolled at another college or university prior to enrolling at Tech.

A post-baccalaureate student holds at least one bachelor's degree from an accredited college, but has not been admitted to the Graduate School and is not pursuing a prescribed curriculum. A post-baccalaureate student may not take classes for graduate credit, and any course taken to make up undergraduate deficiencies cannot be later transferred for graduate credit. A student who holds a bachelor's degree and is pursuing a curriculum leading to another bachelor's degree is an undergraduate regular student.

A graduate student holds at least a bachelor's degree from a regionally accredited institution and has gained admission to Louisiana Tech University's Graduate School.

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Classification	Number of Hours Earned:	
Freshman	1-29 hours earned	
Sophomore	30-59 hours earned	
Junior	60-89 hours earned	
Senior	90 hours earned - graduation	

Classification by Hours Earned

NOTE: Up to 6 semester hours of remedial coursework (at Louisiana Tech University, courses with 099 section numbers) may be counted towards the student's grade level progression (classification). This remedial work should be completed within the first year of enrollment.

Semester Hour/Quarter Calendar

Louisiana Tech University operates on a quarter calendar, but the unit of academic credit awarded is the semester hour. This is accomplished by increasing the amount of contact time per class meeting. One and one-fourth hours (75 minutes) of recitation (class meeting) each week is usually awarded one semester hour of academic credit; two 75-minute class meetings each week yield two semester hours; three 75-minute meetings yield three semester hours, and so on. Two or more periods of laboratory work per week are normally counted as one recitation, yielding one semester hour of academic credit. Credit for each course is described in the *Courses of Instruction* section in the back of this Catalog using a three-part numerical description. The first digit indicates the number of lab contact hours per week. The second digit is the number of lecture periods per week (75 minute class meetings). The final digit indicates the credit awarded for the class in semester bours. For example, the annotation 0-3-3 would mean that a course had 0 lab contact hours, 3 lecture periods per week, and successful completion of the course would yield 3 semester hours of academic credit.

Semester Hour Load

A normal undergraduate student load is that amount of course work required by the curriculum in which the student is registered. The maximum load allowed without special permission is 12 semester hours including the Summer Quarter. Six semester hours are maximum for a summer six-week session. Any schedule exceeding 12 semester hours must be approved in writing by the student's dean on the advising form or the drop/add form. Courses pursued in excess of the allowed limits without approval will be invalidated upon discovery. Correspondence or Internet courses and concurrent enrollments at other institutions are considered as part of this load and must also be approved by the dean.

A degree candidate or a student with a **B** average (3.0), both overall and in the preceding quarter, may be permitted to carry a maximum of 14 semester hours during a quarter. This requires approval in writing from both the student's dean and the Vice President for Academic Affairs.

As for a minimum load, full-time undergraduate students must be registered for 8 or more hours. A degree candidate may carry only the courses required for graduation at the end of the quarter and still be considered a full-time student.

A graduate student is considered full-time with 6 graduate hours and half time with 3 graduate hours.

Credit examinations and classes taken for audit do not count in a student's load.

Course Numbers

Course numbers have been standardized. Developmental education courses are numbered 099 and are not applicable toward degree credit. Undergraduate courses are numbered 100 through 499 with the 300- and 400- series usually reserved for Juniors and Seniors. There are some 400- series courses that are approved for graduate credit and open to graduate students. These courses have a special (G) designation at the end of their course description in the back of this Catalog. Courses numbered 500 and 600 are open only to graduate students.

Registration and Advisement

Students may attend class only after completion of registration, which includes payment of tuition and fees. Registration days and procedures are announced in this Catalog, in the *Schedule of Classes* published each quarter, and online at <u>BOSS.LaTech.edu</u>. Students who are currently enrolled are expected to register for the next quarter during the "early registration" period.

New students and readmitted students register during the general registration period (before the first class day).

Late registration is allowed during the first three regular class days. A late registration fee is assessed during this period. Students who have registered may also add or drop classes during these three days. Students who are selected for participation in forensics, band, choir, chorus, orchestra, and private music lessons after the final day to add a class may still be allowed to add the activity by obtaining their dean's permission. Such adds will be considered only during the first four weeks of the quarter.

Department heads or appointed faculty members advise during the scheduled registration advisement period; however, the student should be well acquainted with his/her particular curriculum, as well as any special registration requirements of his/her department or college.

Students are responsible for taking the courses required in their curriculum as they are offered and are responsible for completing any prerequisites that are required.

Class Attendance

Louisiana Tech University uses the Class Attendance Policy of the University of Louisiana System. Minimum class attendance regulations for the colleges and universities under the control of the Board are as follows:

- 1. Class attendance is regarded as an obligation as well as a privilege, and all students are expected to attend regularly and punctually all classes in which they are enrolled. Failure to do so may jeopardize a student's scholastic standing and may lead to suspension from Louisiana Tech.
- Each instructor shall keep a permanent attendance record for each class. These records are subject to inspection by appropriate University officials.
- 3. A student shall submit excuses for all class absences to the appropriate instructor within three class days after the student returns to the respective class. The instructor may excuse the student for being absent and will also accept an official University excuse. The Registrar's Office does not issue excuses for absences.
- 4. When a freshman or sophomore student receives excessive unexcused absences (10% of the total classes) in any class, the instructor may recommend to the student's academic dean that the student be dropped from the rolls of that class and given an appropriate grade.
- 5. Faculty members are required to state in writing and explain to the student their expectations in regard to class attendance prior to the close of the drop/add period.

Dropping a Course

To drop a course a student must have the consent of his/her department head or advisor on the proper drop/add form and the form must be processed through the Registrar's Office. The W grade is given when a student drops an individual class after the final date for late registration (third class day) has passed and before the end of the first eight weeks of a quarter. After that date students may not drop courses. The deadline for dropping a class with a W grade is listed in the University calendar published in the Schedule of Classes each quarter and online at www.latech.edu. A student may be administratively dropped from a class, or more than one class, or from the rolls of the University, if his/her dean considers such action to be in the best interest of the class or the University. In such a case, the dean will decide whether the student will be given a W or an F.

Resigning From the University

To resign from Louisiana Tech University, a student obtains a resignation card from the Registrar's Office, obtains the applicable signatures listed in the instructions, and submits the card to the Registrar's Office. The I.D. card should be turned in to the Tech Express Office, located in the Student Center. A resignation is not official until the required card is on file in the Registrar's Office. When a student resigns before the close of General Registration, the permanent record will reflect only that he/she registered and resigned. When a student resigns during the first eight weeks of the quarter, the grade of W will be assigned. A grade of F for each class will be recorded for any student who leaves without proper resignation. A student living in the dormitories or housing who leaves without proper resignation will forfeit the unused portion of any payment or deposit made to the University.

Appeal Process for Course Drop/Resignation After End of Eighth Week

Approval of an appeal for dropping a course or resigning may be granted by the student's academic dean only for a documented reason which prohibited the completion of the course(s). With the dean's approval a grade of W will be assigned. Examples of cases eligible for appeal are illness or injury to student, death in student's immediate family, natural disaster, or military duty. Extraordinary cases do not include dissatisfaction with an anticipated grade, a belated decision to change a major, or failure to follow University policy.

Repeating a Course

All attempts at a repeated course will be computed into the cumulative grade point average. For courses that cannot be repeated for credit, only the last attempt is computed into the total hours *earned*. To repeat a course in which credit has already been earned, the student must have the consent of his/her department head. Students who earn an F in a course must repeat the course with a passing grade in order to earn credit. (See *Graduation Requirements* and *Academic Standards* for an explanation of the method by which quality points are used in determining averages for graduation and for probation and suspension.) The last attempt of a repeated course is considered as the final grade.

Auditing a Course

To audit a class, the applicant must be eligible to enter the University either as a regular student, as a visiting student, or as a special student. Permission to audit a physical education activity class must be obtained from the Health and Exercise Sciences department head. A student auditing one or more classes must follow the regular registration procedure and enter "audit" on the advising form as type of credit desired. The student will be assessed the appropriate general registration and tuition fee, which is not refundable. The auditing student is not required to do the work of a regular student; however, a reasonable amount of class attendance is expected if the audited course is to appear on the student's permanent record. An audit may not be changed to credit, or vice versa, after registration closes.

Changing a Major

To change an academic major, the student should follow this procedure:

Changing a Major Online:

- 1. Go to Louisiana Tech's web site (www.latech.edu).
- 2. Click on BOSS Login in the Current Students menu.
- 3. Click on the Academic Major Changes menu item.
- 4.Print out the form, and follow the instructions provided. Once the student has obtained the signatures, return the

form to the Registrar's Office (KH 207). Student Information System changes will be completed by the Registrar's staff.

Changing a Major in Person:

- 1. Come to the Registrar's Office (KH 207), and pick up an Academic Major Change form.
- 2. Obtain the signatures required.
- 3. Return the form to the Registrar's Office. Student Information System changes will be completed by the Registrar's staff.

Change of Address/Phone Number

Students are responsible for keeping the University informed of address and telephone number changes as soon as they occur. Local address and phone number changes can be made online via the BOSS web site. Permanent address and phone number changes must be made in writing at the Registrar's Office (Keeny Hall 207).

The University will consider all correspondence mailed to a student at the address currently on file to have been received, unless it is returned to the sender.

Veteran Certification

Louisiana Tech University provides veteran's liaision service with the Veteran's Administration (VA) for students eligible to receive VA educational benefits. For more information, students may contact the Veteran's Certifying Official in the Office of the University Registrar, Keeny Hall Room 207, or by email at registrar@latech.edu.

Credit by Examination and Other Non-University Sources

Louisiana Tech University subscribes to the concept that individuals possessing knowledge equivalent to that attained in a specific course should be advanced in level in order that a continuous challenge is met. There is no requirement as to where and how the knowledge was acquired. Certain policies and procedures have been adopted by the University in fulfillment of this philosophy. Unsuccessful attempts will not be recorded against the student. Application of credits toward a degree are determined by the student's curriculum. Credit by all types of examinations collectively may not exceed 60 semester hours.

The University provides for credit through military experience, for Advanced Placement, and for Credit by Examination as follows:

Advanced Placement (AP) Program Credit

The University recognizes college-level courses taken in secondary schools under the College Board Advanced Placement (AP) program. Students who have completed these tests should have their scores sent to the Admissions Office. Students may earn up to 30 semester credit hours through the AP program.

The College Level Examination Program (CLEP) Subject Examinations

A student may gain college credit in a number of subjects by achieving the recommended score for credit at Louisiana Tech. The CLEP is administered nationally by Educational Testing Service (ETS). The examination may be taken Wednesday of the third week of each month at Louisiana Tech upon application to the Coordinator of the Testing Center or at any national CLEP Center. Registration should be filed 15 working days prior to test date. Scores are provided by ETS through its transcript service. Lists of subject examinations available may be obtained from the Testing Center, Keeny Hall 310. The student's academic dean must approve the acceptability of the credit toward a degree program. A student will not be allowed to receive credit based upon the CLEP subject exam if he/she has attempted and passed or failed the course. Credit by CLEP exams is limited to 30 semester hours. Applications for CLEP subject exams may be obtained from any test center participating in the program.

Louisiana Tech Credit Examinations

Credit examinations are administered in some subject areas for the benefit of the student who believes he/she has already attained the level of knowledge required in the course(s). The procedure for registering for credit by examination is as follows:

- Students may register for credit by examination in any approved course, but only during regular registration periods. No exam can be given to a student who has not properly registered for the exam. Permission to take a credit exam in a given course is denied to students who previously attempted the course for credit, earned credit in a higher sequence course, or did not receive approval from the department head responsible for the course.
- 2. Each credit by exam has a section number of E01 and will be entered on the student's registration form or added during the "add period." Regular University fees will apply for billing purposes.
- 3. The student's registration record will reflect the credit by exam course(s) for which the student registered; these courses will not, however, be added into the total semester hour load of the student for determining "full-time" status, but will be counted for the purpose of determining fees.
- 4. Exams are administered according to the times listed in the *Schedule of Classes* or times assigned by the department head. Exams are normally scheduled during the first three class days of a quarter.
- 5. Successful completion of an exam will be recorded on the permanent academic record as "credit by examination" with a grade of S (Satisfactory). Grades of S are not used to compute the grade point average. The grade of NC (No Credit) is loaded if the student does not take or does not pass the credit examination. The NC denotes no credit earned and is not used in the GPA calculations.
- 6. Credits earned through this type of exam are limited to 30 semester hours on a student's degree plan.

Mathematics Credit by Exam

Credit for Math 101 is granted for each student with a Math ACT score greater than or equal to 26 or a Math SAT score greater than or equal to 590 if the Math ACT/SAT score was earned within the previous five years.

Credit for Math 101 or Math 112 is granted to each student who is eligible for and successfully completes the Credit Exam for the course. See the *Placement in Mathematics and Statistics* section of this Catalog for eligibility requirements for each exam.

Credit Based on Military Experience

Honorably discharged members of the U.S. Armed Forces may be allowed credit for physical education upon presentation of a copy of their discharge, DD 214, to the Registrar's Office.

Additional credit may be granted for course work completed in service schools where equivalence in terms of college courses has been recommended for college credit in the *Guide to the Evaluation of Education Experience in the Armed Services*, published by the American Council on Education. Official documents must be submitted to the Office of the Registrar for an evaluation of these experiences.

Credit Through DANTES

Louisiana Tech University is a participating institution with the Defense Activity For Non-Traditional Education Support (DANTES) program. Credits earned are recognized by the University in accordance with the recommendations of the curriculum in which the student enrolls and must not duplicate other college credits earned.

Chapter 4 – Academic Standards: Status, Matriculation, Grading, and Graduation

Academic Status

There are three categories of academic status for undergraduate students: academic good standing and eligible to be enrolled; academic probation and eligible to be enrolled; and academic suspension, therefore not eligible to be enrolled. Although students will usually receive official notification of academic status, such notice is not a prerequisite to students being placed in one of the above categories. Students have the responsibility to learn their academic status prior to the beginning of the next enrollment period.

Good Standing

All undergraduate students are expected to achieve and maintain a minimum cumulative GPA of at least 2.0 (C) on all college work attempted and on all work attempted at Louisiana Tech. The University will, however, certify a student to be in "good standing" as long as that student is eligible to be enrolled. There are some degree programs that specify higher GPA requirements for good standing, eligibility for entry into an upper division, and/or eligibility for graduation in the program. Specific GPA requirements can be found in the curriculum descriptions contained in the college/department/degree found in the undergraduate program pages of this catalog or through the individual departments.

Academic Probation

Undergraduate students will be placed on academic probation whenever their cumulative grade point averages (GPAs) are 10 or more quality points below a 2.0 average. To determine this, multiply the cumulative hours attempted by two. If the answer is 10 or more quality points greater than the actual cumulative quality points earned, students are placed on probation.

Example: Student attempts 40 semester hours and earns 71 quality points. Multiply 40 x 2 = 80: subtract 71 from 80 = 9; student is not on probation because 9 is less than 10.

Once on academic probation, a student will remain on probation (as long as each quarter average is at least 2.0) until the cumulative GPA of 2.0 or higher is achieved.

Once a cumulative GPA of 2.0 or higher is achieved, a student will be cleared of academic probation and placed in academic good standing.

Academic Suspension

Undergraduate students on academic probation will be suspended at the conclusion of any quarter, including summer, in which they fail to earn a GPA of at least 2.0. First-time freshmen will not be suspended prior to the completion of three quarters of enrollment.

The period for the first suspension will he for one quarter. All subsequent suspensions will be for one calendar year.

A student on academic suspension from Louisiana Tech University may not obtain credit toward a degree at the University for courses attempted at another institution during the suspension period. No credit earned while under suspension from another university will be accepted toward a degree at Louisiana Tech.

Readmission from Suspension

Appeal for reinstatement after academic suspension may be made to the student's academic dean or to the Director of Basic and Career Studies, as appropriate. Appeals must be accomplished by noon on the day of General Registration/Fee Payment. If approved, the dean notifies the University Registrar and the reinstated student's registration status is activated. Reinstated students will be continued on academic probation.

General Education Requirements (GER)

Louisiana Tech University has chosen to strengthen undergraduate education by requiring each curriculum to include a core of general education requirements.

ASSOCIATE DEGREE (GER) are as follows:

ASSOCIATE DEGREE (GER) are as follows.
ENGLISH (GER)6 Hours
Freshman Composition (English 100 or 101, and 102)
MATHEMATICS (GER)
Math 100 or above and one additional 3-hour course in Mathematics
or Statistics.
COMPUTER LITERACY (GER)
Curriculum chosen by the student must provide basic instruction in
and/or use of computer technology.
NATURAL SCIENCES (GER)
Physical Sciences (Chemistry, Physics, Geology)
Biological Science
ARTS (GER)
Must be taken from courses such as: Art 290: Art Appreciation;
Health and Exercise Science 280: Dance Appreciation; Music 290:
Music Appreciation; Speech Theatre 290: Theatre Appreciation
SOCIAL SCIENCES
Economics, Geography, Anthropology, Political Science, Psychology,
Sociology (*Minimum of two disciplines)
Specific GER course requirements may be specified in individual
curricula
cumcuna
TOTAL:
BACCALAUREATE DEGREE (GER) are as follows: ENGLISH (GER)
Freshman Composition (English 100 or 101, and 102)
MATHEMATICS (GER)
Math 100 or above and one additional 3-hour course in Mathematics
or Statistics.
COMPUTER LITERACY (GER)
Curriculum chosen by the student must provide basic instruction in
and/or use of computer technology.
NATURAL SCIENCES (GER)
Physical Sciences (Chemistry, Physics, Geology)
Biological Science
*Must include both physical and biological science with at least 6
hours from a two-quarter sequence.
ARTS (GER)
Must be taken from courses such as: Art 290: Art Appreciation;
Health and Exercise Science 280: Dance Appreciation; Music 290:
Music Appreciation; Speech Theatre 290: Theatre Appreciation
HUMANITIES (GER) 12 Hours
History**, Literature**, Speech**, Languages (above the
introductory level), Philosophy, English*
*Must include at least 3 hours at the 200-level or above.
**Minimum of 3 hours required.
SOCIAL SCIENCES (GER)
Economics, Geography, Anthropology, Political Science,
Psychology, Sociology (*Minimum of two disciplines)
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TOTAL

Degree Programs

Louisiana Tech University is authorized to confer three associate degrees, seven baccalaureate degrees and twelve graduate degrees.

The associate degrees are: Associate of General Studies (available through the Barksdale Air Force Base program only), the Associate of Science Health Information Technology (available through main campus only), and the Associate of Science Nursing (available through main campus only).

The baccalaureate degrees are: Bachelor of Architecture, Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Interior Design, Bachelor of Music, Bachelor of Science, and Bachelor of General Studies.

The graduate degrees are: Master of Arts, Master of Science, Master of Business Administration, Master of Professional Accountancy, Master of Fine Arts, Master of Education, Master of Arts Teaching, Doctor of Audiology, Doctor of Business Administration, Doctor of Philosophy, Doctor of Education, and a joint PhD/MD with Louisiana State University Medical Center -Shreveport.

Minors

A minor is that part of a degree program which consists of a specified group of courses in a particular discipline or field, consisting usually of 15% or more of total hours required in an undergraduate curriculum. A minimum of 40 to 60% of the courses are at the 300- to 400- level. Minors may be offered in various departments at Louisiana Tech. Refer to college and departmental sections for information on available minors. Minors should be determined no later than the junior year (completed 60 hours) at which time the student's minor plan is documented and placed in the student's departmental major folder. Progress toward completion of minor requirements is monitored by the student's major advisor. Approval and certification of minors are the responsibility of the student's transcript. Students may complete more than one minor.

A student must earn a grade of C or better in each course applied toward meeting the requirements of a minor. This requirement is applicable to new undergraduate students (freshmen and transfers) whose initial enrollment is Fall 2003 or terms thereafter.

Curriculum Matriculation

- 1. Students in Basic and Career Studies (undecided) and those students entering specific colleges from Basic and Career Studies will follow the curricula in effect at the time of their admission to the University, as long as the students are pursuing their degrees on a continuing basis.
- 2. Students transferring from one college to another on campus or those transferring from other institutions will follow the curriculum in effect at the time of transfer/transfer admission.
- 3. Students who change their major must follow the curriculum in effect at the time of the major change.
- Students may follow an updated curriculum that becomes effective while in a program of study; however, mixing of curricula is not permitted in satisfying requirements for graduation.
- 5. Students who interrupt their studies and do not enroll for one or more quarters (excluding the Summer Quarter) must be readmitted to the University and are required to follow the curriculum in effect when they return to the institution.

Louisiana Statewide Articulation

Louisiana Tech subscribes to the statewide Articulation Policy as adopted by the Board of Regents. The aim of this policy is to ensure that transitions which students may encounter in their educational carcer will be orderly. Pursuant to ACT 383 of the 2003 Louisiana Regular Legislative Session, Louisiana Tech University actively participates in the Statewide Student Transfer Guide and Articulation System Matrices (Board of Regents' E-matrix). These matrices indicate transfer equivalencies of courses among Louisiana's public colleges and universities and may be accessed through the Board of Regents' webpage at www.regents.state.la.us. This site lists courses that are acceptable for academic credit in general and for credit toward meeting degree program requirements at Louisiana institutions. Course descriptions listed in the back of this catalog that fall within the purview of E-matrix are indicated by an asterisk in the definition and a written reminder found in the footer of each of those course description pages. Students should be aware that the E-matrix course listings are not all-inclusive. There are courses that articulate between campuses that are not listed in the matrices. Questions regarding transferability of credit should be directed to the Office of Undergraduate Admissions at Louisiana Tech University (318-257-3036 or Bulldog@LaTech.edu .

Grading System

Official grades are maintained in the University Registrar's Office. Louisiana Tech applies a traditional system of grading and awards quality points for grades earned. An \mathbf{A} is awarded for the highest degree of excellence that is reasonable to expect of students of exceptional ability and application. A grade of \mathbf{B} is superior. A grade of \mathbf{C} is average. A grade of \mathbf{D} is given for a quality of work that is considered the minimum for receiving credit for the course. A grade of \mathbf{F} is given for a failure, and the work must be repeated to receive academic credit. The University's grading system is as follows:

Grade	Number of Quality Points:
A	4 quality points per semester hour
B	3 quality points per semester hour
С	2 quality points per semester hour
D	1 quality point per semester hour
F	0 quality points per semester hour
T	Incomplete (see explanation below)
S	Satisfactory (see explanation below)
W	Withdrew (see explanation below)
NC	No Credit (see explanation below)

Definition of the Incomplete (I) Grade

The grade I (Incomplete) is used to denote failure to complete all assigned class work and/or exams as a result of conditions beyond the student's control. It is the responsibility of the student to initiate a request with the instructor that a grade of I be issued. If the student's work is of passing quality, the instructor may approve the student's request and will assign a grade of I plus the average letter grade on all work completed to that point (e.g. IA, IB, IC, or ID). A grade of IF cannot be issued. If the instructor agrees to issue an I, he/she will complete a standard contract with the student detailing requirements for course completion and specifying the date those requirements must be finished. Instructors then provide a copy of the contract to the student and a copy to the department head/director. Students will receive a grade of IA, IB, IC, or ID for that quarter. Incompletes are factored into hours attempted and quality points awarded. Therefore, they impact a student's quarter and cumulative grade point averages and are a factor in academic probation or suspension decisions.

The maximum amount of time allowed for a student to finish incomplete work is Friday of the fourth week in the following quarter, with one exception: students receiving an I in the Spring Quarter have until Friday of the fourth week in the following Fall Quarter to complete their work. A reminder of this date is published in the academic calendar each quarter and can also be found on the academic calendar at Tech's web site (www.latech.edu).

If the student does not complete the required work within the contracted period, the instructor will change the I to an F by delivering a final grade change to the Registrar's Office by Friday of the fifth week of the quarter. The final grade replaces the I on the student's permanent record (transcript); attempted hours, earned hours, quality points, and quarter/cumulative grade point averages are recalculated applying the final grade. A student may be placed on or removed from academic probation or suspension based on the recalculated GPA at the time an I grade is cleared. I grades are cleared only by completing the required course work, and not by registering for the course again.

NOTE: Students registered for approved research, practicum, dissertation, or thesis courses requiring multiple quarters of the same course registration to complete the research receive an J-A, -B, -C, or -D (or an I-S in the case of Satisfactory/Failure graded courses) for each attempt until the research or practicum is accepted as complete by the advising faculty member. At that time, the graduate student's I grades are changed to the appropriate A, B, C, D, F, or S on his/her permanent record.

Definition of the Satisfactory (S) Grade

A grade of S indicates satisfactory completion of a course. The S grade increases hours earned but does not affect hours attempted or quality points and is not computed in any grade point average (GPA). Students registered for a course where the grade of S is used who do not complete the required course work will receive the grade F.

Definition of the Withdrew (W) Grade

A W is issued when a student withdraws from a class (drops a class) after the final date for registration has passed and before the end of the first seven weeks of a quarter. The W grade will appear on the student's permanent record (transcript), but is not included in computing the student's GPA. Students who stop attending class(es) without following proper drop/withdraw or resignation procedures (walk-away) will receive an F grade for each class affected.

Definition of the No Credit (NC) Grade

The grade NC (used for undergraduate developmental courses and credit exams) denotes no credit earned or hours charged and is not computed in any GPA calculation.

Calculating Grade Point Average (GPA)

Academic grades are grouped by career (Undergraduate or Graduate), and academic grade point averages are calculated using only the grades earned for undergraduate credit or graduate credit, but not both.

The Quarterly GPA

A student's *quarterly grade point average (GPA)* is obtained by dividing the sum of the quality points carned for the quarter by the number of semester hours attempted that quarter.

The Cumulative GPA

The *cumulative GPA* is determined by dividing the total quality points earned by the total number of hours attempted. Cumulative GPA is the benchmark figure used to determine

undergraduate academic honors, undergraduate degree class standing at graduation, academic probation, and academic suspension. Quarterly and cumulative GPAs are recorded on the student's permanent academic record (transcript) and reported each quarter with their grades.

The Earned GPA

The University of Louisiana System Board of Supervisors permits member universities to use the *earned GPA* (when necessary) to determine eligibility for entry into specific upper division undergraduate courses, eligibility for progress into and completion of a certification program, eligibility for a practicum, and most importantly eligibility for receipt of an undergraduate degree.

An *earned GPA* is computed by dividing adjusted quality points by adjusted quality hours.

Adjusted quality points are computed by subtracting quality points received for repeated classes from total quality points.

Adjusted quality hours are computed by subtracting credit hours for "F" grades and repeated classes from total quality hours.

The earned GPA is calculated and maintained by the academic department involved and maintained with the department's/advisor's copy of the student's curriculum sheet. Earned GPAs are not maintained in the Student Information System as part of a student's electronic file and are not reported with grades or on the academic transcript.

Outstanding Academic Achievement

The President's Honor List

The *President's Honor List* is prepared at the end of each quarter and is for undergraduate students with an outstanding grade point average (GPA) for that given quarter. The requirements are

- a GPA of at least 3.8, calculated on
- a minimum of 9 semester hours pursued (excludes audit and pass/fail hours), with
- no grade lower than a **B**, and
- all courses attempted are at the 100-level or above.

The Dean's Honor List

The *Dean's Honor Lists* arc also prepared at the end of each quarter for undergraduate students with high GPAs for that quarter. The requirements are

- a GPA of at least 3.5, calculated on
- a minimum of 9 semester hours pursued (excludes audit and pass/fail hours) with
- no grade lower than a C, and
- all courses attempted are at the 100-level or above.

Students enrolled in Developmental Education Program courses (099-series) are <u>not cligible</u> for these quarterly academic honors during the quarter(s) they are registered for the 099 course(s). In addition, the minimum 9 semester hours' cannot include courses taken for satisfactory/failure or audit grades.

Grade Reporting

Students can obtain their grades via Interactive Voice Response (telephone) or on the Internet during the one-month grade reporting period following the completion of each quarter. Specific instructions for access are published quarterly in the *Schedule of Classes*, on the Tech web site, <u>www.latech.edu</u>, and reminders provided by the University Registrar's Office during early registration. Students needing a copy of their grades after the reporting period may obtain them online or thru BOSS by requesting an unofficial transcript, or and/or specific letters of verification.

Final Grade Appeals Procedure

A final grade in a course represents the cumulative evaluation and judgment of the faculty member placed in charge of that course. If a student feels the final grade in a course was not determined in accordance with University policies or was determined arbitrarily, the student may appeal by adhering to the following procedure:

- 1. Confer with the faculty member, setting forth clearly all points of concern. If unsatisfied with the results of the conference, proceed to the next step.
- 2. Confer with the head of the department in which the course is taught, setting forth clearly all points of concern. If the student remains unsatisfied, proceed to the next step.
- 3. Write a letter of appeal to the dean of the college in which the course is taught. The dean will send copies of the letter to the faculty member and department head. This letter must be
 - received by the dean within the first 10 regularly scheduled class meeting days of the term immediately following the term in which the appealed grade was received; and,
 - an accurate and complete statement of all facts pertaining to the matter. Falsification may result in disciplinary action.

The dean may make a decision, which would be final in the matter, or refer the appeal to the college's Committee on Standards for review and recommendation. The committee's report would be a recommendation to the dean, whose decision would be final. In reviewing the appeals, both the dean and committee would have broad latitude in their procedures and recommendations. They might, for example, request additional information privately from those involved. Or they might choose to invite specified persons, including the student and faculty member, to a meeting to discuss the matter. Whatever their approach, it should take appropriate account of the interests of both the student and faculty member.

In all cases the dean shall communicate the final decision to the student, faculty member, department head, and, if a grade change is involved, to the University Registrar. In appeals where the dean initially makes the decision, the decision should normally be communicated to the student within 10 class days after the appeal deadline. When appeals are referred to the committee, the final decision should normally be communicated to the student by the dean within 20 class days after the appeal deadline.

NOTE: In the case where a faculty member invokes a grade penalty on a student because of academic misconduct, the faculty member will report the incident and penalty to his/her Department Head and to the Office of Student Life. If the student chooses to appeal the sanction, the student will follow the procedures contained in the Academic Honor Code (Section Eight: Appeals), detailed later in this chapter.

Academic Misconduct

Academic misconduct at the University is determined by the faculty member, committee, or other supervisor(s) under whom such misconduct occurs. The misconduct may occur in an individual class, a comprehensive exam, a practicum, an internship, a thesis or dissertation, a research project, a multiquarter sequence of courses, or any other academically related matter or setting. Sanctions may range from dismissal from the University or an academic degree program to a failing grade or other penalty as determined by the faculty member, plan of study committee, supervising authority, or judiciary. The student has the right to appeal the charge of academic misconduct in accordance with the procedures contained in the Academic Honor Code (Section Eight: Appeals), detailed later in this chapter..

Academic Transcripts

The official permanent academic records for all Louisiana Tech students are maintained in the University Registrar's Office. These records are protected in accordance with the guidelines contained in the Family Educational Rights and Privacy Act (FERPA), detailed in the University Overview of this Catalog. Transcripts of the academic record may be secured by the individual personally or will be released on the student's written authorization.

Transcript production is a service provided by the University Registrar's Office. Official transcripts will not be issued for any student who has an unfulfilled obligation to the University. This is termed a "charge" or a "hold" and must be cleared with the department levying the charge.

Further instructions on how to obtain official or unofficial transcripts can be found online at URL <u>www.latech.edu</u> in the Registrar's area under "Enrollment Services." The instructions are also available in the quarterly *Schedule of Classes*.

Graduation Requirements Requirements for All Degree Candidates

- 1. The student must be enrolled at Louisiana Tech University during the quarter he/shc expects to be a degree candidate. The student will report his/her candidacy to his/her dean and to the University Registrar within the first three weeks of the quarter. The student will register to graduate in the University Registrar's Office (Keeny Hall 207). This formally initiates the final degree audit process in preparation for conferral of the degree. Students who miss the deadline must have their Academic Dean's written permission to be added to the degree candidates list late.
- 2. Each degree candidate is expected to be present at the commencement ceremony. A candidate can petition to be absent through a written request to the University President. Information concerning duplicate diplomas, diploma mailing fees, and other diploma services can be obtained from the Commencement Coordinator located in the University Registrar's Office.
- 3. It is highly recommended that the candidate register in the Placement Office during the quarter preceding the one in which he/she expects to graduate.
- 4. A candidate for graduation who fails to pass the final examination in only one course during the last quarter's work may be permitted to take a "deficiency examination" in this course. If the student fails the "deficiency examination," the course must be repeated.

Associate Degree Requirements

The Associate Degrees can be earned from Louisiana Tech University when a student has fulfilled the following requirements:

- The candidate must complete one of the approved associate degree programs consisting of 60 or more specified academic credit hours.
- 2. He/she must make a C average on hours earned. A student who is deficient on an hours-earned basis of more than 6 quality points of a C average at the beginning of the final quarter will not be allowed to register for graduation. A transfer student must also make a C average on all hours carned at Louisiana Tech.

- 3. If he/she is a transfer student, he/she must not have fewer than 24 weeks in residence at Louisiana Tech, during which at least 25% of the semester hours required for the curricula are earned with a minimum 2.0 GPA.
- 4. The last two quarters must be spent in residence. Exception: a student who has fulfilled the minimum residence requirements may be permitted to carn six of the last 18 hours out of residence.
- The student must report his/her candidacy to his/her dean and the Registrar and register for graduation within the first three weeks of the quarter in which he/she expects to graduate.
- 6. One-fourth of the hours required for graduation must be completed in residence. Louisiana Tech does not permit a student to apply for more than 6 hours of correspondence study toward the pursuit of a degree.

Earning a Second Associate Degree

If a student wishes to add an associate degree as a second degree in another field of study at the University, at least 15 semester hours in addition to the number needed for the first degree are required. If a student completes requirements for an associate degree as he/she progresses toward a bachelor's degree, then no additional hours are required, providing that specific requirements are satisfied for both degrees.

If a student wishes to earn a baccalaureate degree from Louisiana Tech, he/she must re-apply for a baccalaureate program and meet all additional requirements as explained in each specific curriculum.

Baccalaureate Degree Requirements

- 1. The candidate must complete one of the approved baccalaureate curricula of the five colleges.
- 2. A C average on hours earned is required. A student who is deficient on an hours-earned basis of more than 9 quality points of a C average at the beginning of the final quarter will not be allowed to register for graduation. A transfer student must also make a C average on all hours carned at Louisiana Tech.
- 3. If he/she is a transfer student, no fewer than 36 weeks residence at Louisiana Tech are required, during which at least 25% of the semester hours required for the curricula are earned with a minimum 2.0 GPA.
- 4. He/she must spend the senior year in residence. Exception: A student who has fulfilled the minimum residence requirements may be permitted to earn 9 of the last 36 semester hours out of residence.
- The student must report his/her candidacy to his/her dean and to the Registrar and register for graduation within the first three weeks of the quarter in which he/she expects to graduate.
- 6. Three-fourths of the hours required for graduation must have been completed in college residence. Louisiana Tech does not permit a student to apply more than 6 hours of correspondence study toward the pursuit of a degree.

Earning a Second Baccalaureate Degree

If the student wishes to earn a second baccalaureate degree in another field of study at the University, at least 30 semester hours in addition to the number required for the first degree must be earned. These 30 additional hours need not have been completed after the first degree was awarded, but the total hours earned must be the number required for the first bachelor's, plus 30 more. In addition, the student must satisfy all requirements for the second degree.

Earning a Double Major

A student may acquire a double major under a single baccalaureate degree by completing the total hours required for the one baccalaureate degree and the total hours required in the subject courses for the second major. Not all majors are eligible for conferral outside of accredited, profession-specific degrees. The student should check with his/her academic advisor and with the University Registrar to determine whether the major combination he/she is interested in is approved for conferral before beginning the additional course of study.

Masters and Doctoral Degree Requirements

The student must be registered at Louisiana Tech University during the quarter he/she is a degree candidate.

Each degree candidate is expected to be present at the commencement ceremony. A candidate can petition to be absent through a written request to the University President. Information concerning duplicate diplomas, diploma mailing fees, and other diploma services can be obtained from the Registrar's Office.

For specific degree requirements, see the Graduate School section of this Catalog.

Graduation with Honors

Associate Degree Honors

Students receiving their first associate degree are also recognized for outstanding academic achievement. The following conditions determine such recognition:

- Honors a cumulative GPA of 3.30 on all hours pursued
- Distinction a cumulative GPA of 3.70 on all hours pursued

The student must have earned a minimum of 15 semester credit hours at Louisiana Tech University to be eligible for and receive such recognition.

Baccalaureate Degree Latin Honors

Students who achieve outstanding academic results during their undergraduate career receive special recognition at graduation through a suitable Latin inscription on their diploma, special wording on their official transcript, and verbal recognition by their dean during the commencement ceremony.

The following cumulative GPA standards, established by the University of Louisiana System, are used to determine such eligibility and recognition:

- cum laude a cumulative GPA of 3.50 on all hours pursued;
- magna cum laude a cumulative GPA of 3.70 on all hours pursued;
- summa cum laude a cumulative GPA of 3.90 on all hours pursued.

The student must have earned a minimum of 30 semester credit hours at Louisiana Tech University to be eligible for and receive such recognition.

Honors Scholar Distinction

Students who complete 21 semester hours of Honors Program classes in the Foundations 21 curriculum, including the four interdisciplinary Foundations seminars, will receive formal designation as *Honors Scholars* on their official academic transcript. Honor students who take 9 semester hours of 400level Honors classes and write an honors thesis will receive formal designation as *Senior Honors Scholars* on their official academic transcript.

Academic Honor Code

SECTION ONE: PREAMBLE

Academic integrity at Louisiana Tech University is based upon and encompasses the principles of honesty, fairness, respect, responsibility, and excellence. Through the active pursuit of academic integrity, the University strengthens the value of the education and degrees that students seek to earn. Conversely, misconduct tarnishes the reputation of Louisiana Tech University and discredits the accomplishments of current students as well as graduates. Consequently, the University expects that all members of its academic community will demonstrate honesty and integrity in all academic relationships.

The purpose of the Honor Code is to articulate and support the interests of Louisiana Tech University in maintaining the highest standard of conduct in academic affairs. This policy has been developed to provide students and faculty with guidelines to determine what behaviors violate the Honor Code and procedures for dealing with behaviors alleged to be in violation of the Code.

SECTION TWO: HONOR CODE STATEMENT

Being a student of a higher standard, I pledge to embody the principles of academic integrity.

SECTION THREE: HONOR CODE VIOLATIONS

Acts that will be considered violations of the honor code are grouped in the categories that follow. It will be considered a violation of the Louisiana Tech University Honor Code to commit or to attempt to commit any offense as outlined below.

3.1 Cheating - Cheating is defined as the act of giving unauthorized assistance to or receiving unauthorized assistance from another individual for the purpose of completing academic requirements. This includes, but is not limited to, the completion of homework, tests, projects, or research assignments. Some examples of cheating are

3.1.1. During an examination, referring to information not specifically allowed by the instructor or receiving information from another student or another unauthorized source. Also included would be allowing another student to copy your paper.

3.1.2. Representing another person's work or any part thereof, be it published or unpublished, as one's own, which is referred to as "plagiarism."

3.1.3. Copying another's entire paper and claiming it as one's own.

3.1.4. Copying a part of a paper or another source and claiming it as one's own.

3.1.5. Copying information from a source word for word without using citations.

3.1.6. Copying information from a source but changing the words around without providing citations.

3.1.7. Obtaining, distributing, or referring to a copy of an examination which the instructor and/or department has not authorized to be made available for such purpose.

3.1.8. Submitting work that has been previously or is being concurrently used in a different class by oneself or by another student. Special permission must be obtained from the instructor or professor if a student wishes to utilize or develop further any work prepared for another class.

3.1.9. Misrepresentation of data for any purpose will represent a violation of the standards of the honor code.

3.2 Falsification - Falsification is defined as altering official University documents, forging signatures of University officials or any other individual, or any other attempt to misrepresent official institutional documents or records. This also includes the alteration of grades or any other records related to the academic performance of students, whether another student's or your own. This shall also include submitting any false records in order to gain admission to the University. Violations include not only falsification of records but also oral and written misrepresentation of truth in any kind of communication with University officials. This violation is an automatic referral to the Behavioral Standards Committee.

3.3 Stealing/Unauthorized Access - This violation includes acquiring unauthorized access to property, information, or materials which belong to another person. These materials or property may belong to a faculty member, a staff member, the university, or another student and can be acquired in any form, including electronic information. This violation is an automatic referral to the Behavioral Standards Committee.

It will also be considered a violation of the Louisiana Tech University Honor Code to assist, attempt to assist, or conspire to assist another student in committing the offenses as outlined above.

SECTION FOUR: <u>HONOR CODE VIOLATION</u> INITIAL ACTION

Upon a determination by University faculty or staff that there has been a violation of the Honor Code, he/she may invoke sanctions without referral to the Honor Council. The student will have the option to accept the penalty without a hearing or to request that the matter be referred to the Honor Council for an appeal. If the student accepts the sanction without appeal, it shall be the responsibility of the instructor to report the violation and sanctions imposed to the Honor Council through the Office of Student Life.

On other occasions, the instructor may feel that there was a possible Honor Code violation and will have the option to refer the matter directly to the Honor Council for appropriate action.

Should a student wish to report a violation of the honor code, he or see should notify the instructor or the Office of Judicial Affairs, as is appropriate.

SECTION FIVE: THE HONOR COUNCIL

The Honor Council shall be composed of the following:

A. Three faculty members appointed by the Vice President for Academic Affairs; and

B. One staff member appointed by the Vice President for Student Affairs;

C. Five students with three being upperclass undergraduates appointed by the SGA President and 2 graduate students appointed by the Dean of the Graduate School; and

D. One faculty chairperson appointed by the Vice President for Academic Affairs.

Quorum - The presence of a chairperson and six members with at least two student members; and, with a quorum present, the Committee may perform any of its functions and exercise any of its powers.

Recusation - Any member of the Committee who is involved or associated with the case being considered may excuse himself or herself.

All hearings will be closed except to those involved in the hearings.

SECTION SIX: HONOR COUNCIL PROCEDURES

These procedures will apply when a student is referred to the Honor Council for infractions or violations of University Honor Code. The purpose of the hearing is to determine if an Honor Code violation has occurred.

The student will be given written notification at least three (3) days before the date set for the hearing. The notification will include a statement of the alleged academic misconduct; the date, time, and place of the meeting of the hearing board; a statement of the right to review evidence and a list of witnesses presented at the hearing; and a statement of the right to bring witnesses on his/her behalf. The day after the date of notification shall be the first day of the three-day delay period. The determination of the time of the hearing will include consideration of the student's class schedule.

Both the accuser and the accused will be informed that he/she may bring one representative (either personal or legal counsel) who may attend and advise the student but may not present the student's case. The representative or the attorney when applicable, has no standing in the proceedings, but may provide advice to the respective student in a quiet manner that is not disruptive to the proceedings. The student shall give the Council notice in writing of his/her plans to bring a representative.

The student will be notified that he/she can present evidence or witnesses on his/her behalf, that the student will have a reasonable opportunity for questioning witnesses appearing against him/her, and that the student may be present during all phases of the hearing except during the Council deliberation. The student will be notified of his/her right to review all of the evidence that will be presented on behalf of the University.

The Council shall be empowered to hear or not to hear such witnesses and evidence as it may deem relevant and fair, including, but not limited to, any information made a part of the original report.

The Vice President for Student Affairs or his representative will be present at this hearing to present the case to the Honor Council.

Once a date, time, and meeting place of the hearing have been established, the student has been duly notified, and a Council quorum has been convened, the hearing will be held even if the student or his/her personal representative or hoth of them fail to appear. However, if in the opinion of the Chairperson of the Honor Council, there is just cause for delay of the hearing, the Chairperson may reschedule it for a later date. For purposes of this section, "just cause" means any eventuality that would prevent the student from receiving a fair hearing.

The proceedings will be tape recorded. Only one official recording will be permitted. The student may review a transcript of the proceedings at the Office of Student Life. All original documentation is maintained by the Office of Student Life.

SECTION SEVEN: <u>HONOR COUNCIL</u> <u>SANCTIONS</u>

7.03 Censures Recommended by the Honor Council

7.03:01 Academic Sanctions can include any combination of the following:

7.03:01(a) Assignment of an "F" grade in the course.

7:03:01(b) Assignment of a failing grade or score on the assignment or examination in question.

7:03:01(c) Assignment of additional work in the class to provide evidence of the student's academic knowledge of the material.

7:03:01(d) Participation in the university ethics seminar. The purpose of this seminar is to provide an educational venue for

students to become knowledgeable on academic honesty and honor code issues.

7:03:02 Administrative Probation - A precautionary measure which carries the provision that continued enrollment depends on strict compliance with University academic standards. Administrative probation shall be for a definite period of time.

7:03:03 Referral to Behavioral Standards Committee - The Honor Council may refer a student to the Behavioral Standards Committee if the committee members deem that the violation is beyond the scope of the Honor Council.

7:03:04 Suspension Recommendation - The Honor Council may refer the case to the Behavioral Standards Committee with a recommendation for suspension or expulsion.

SECTION EIGHT: <u>APPEALS</u>

Procedures for Appeal

A student may issue a written appeal of a decision by the instructor, the Honor Council, or Administrative Review Board if any of the following apply:

- a. procedural error
- b. new evidence
- c. unsupported conclusion
- d. disproportionate sanction

Students initiating the appeal process should be aware that an appeal can result in upholding the original sanction, reducing the sanction, or increasing the sanction. Students who face a suspension or expulsion sanction and are appealing should attend classes until notified by the university.

Prerequisite to All Appeals - An appeal shall not be considered until the complaining student has exhausted all prior appeals.

Appeal of a Sanction by an Instructor

Any student may appeal a sanction levied by an instructor for an honor code violation. The student appeal (through the Student Affairs Office - 305 Keeny Hall) within three (3) business days after notice of the instructor's decision has been mailed or verbally given to the student. Late notices of appeal will be accepted or rejected by the Dean of the College under which the course was taught after hearing the student's reasons for failure to comply with the preceding sentence. In appeals regarding administrative actions of the instructor of record, the Honor Council shall hear and decide the merits of the accusation and the censure imposed as if the matter were being brought before it initially. The instructor of record will he present at this hearing.

Appeal of a Recommendation by the Honor Council

Within three (3) business days after notice of a decision of the Honor Council, the aggrieved student shall have the right to appeal to the Administrative Review Board. To do so, the student shall give written notification to the Vice President for Student Affairs of his/her appeal to the Administrative Review Board. The Vice President for Student Affairs shall, within a reasonable time, set a date, time, and place for review of the decision of the Honor Council and notify the student thereof. Late notices of appeal will be accepted or rejected by the Vice President for Student Affairs after hearing the student's reasons for failure to comply with the preceding sentence. The entire record of proceedings and the evidence presented before the Honor Council shall be automatically transmitted to the Administrative Review Board. The student may, at his/her discretion, submit additional written evidence which is relevant to the issue before the Board. The Vice President for Student Affairs or his/her representative will be present at this hearing. The Administrative Review Board may take any one of the following actions:

a. approve the recommendation submitted by the Behavioral Standards Council;

b. amend and approve the recommendation; or

c. return the recommendation for further study.

SECTION NINE: <u>ADMINISTRATIVE REVIEW</u> <u>BOARD</u>

The Administrative Review Board shall consist of the following:

a. The Vice President for Student Affairs or his/ber designee, as chairperson;

b. The Vice President for Academic Affairs or his/her designee; and

c. The dean of the college in which the student is registered or his/her designee.

Quorum - The presence in person of two members of the Administrative Review Board (or their duly appointed representative) shall constitute a quorum.

All hearings will be closed except to those involved in the hearings.

SECTION TEN: EFFECTUATION OF CENSURES

Censures other than Suspension and Expulsion Recommendations

In cases where the decision or recommendation of the disciplinary body or functionary is other than a recommendation to the Behavioral Standards Committee to suspend or expel the student, the censure shall take effect from the time the student is informed by the appropriate official.

Censures: Recommendation of Suspension or Expulsion

In cases where the recommendation of the Honor Council to the Behavioral Standards Committee is to suspend or expel, the case shall be referred immediately to the Behavioral Standards Committee for appropriate action.

Failure to Comply

Any student receiving sanctions from the Honor Council and failing to fulfill the requirements set forth within the prescribed time period shall be referred to the Behavioral Standards Committee.

Chapter 5 - Student Affairs

Student Affairs Overview

The Division of Student Affairs is organized for the purpose of assisting students in determining self-direction and personal goals and to encourage development of skills for the satisfactory attainment of those goals. For this purpose the services of the division are many and varied with emphasis on the individual student.

Thus, any prospective Louisiana Tech student should become familiar with the following scrvices of the Division of Student Affairs:

- housing/residential life
- international student office
- student health center
- counseling services
- career center
- university police
- food services
- bookstore
- student activities and student organizations
- recreation/intramurals
- judicial affairs

NOTICE: The regulations contained in this Catalog are based upon present and foreseen conditions, and the University reserves the right to modify any statement in accordance with unforeseen conditions.

Off-Campus Housing Application Requirements

The University of Louisiana System has adopted resolutions that effect the housing policy at Louisiana Tech University and all other colleges and universities under its jurisdiction. In compliance with the University of Louisiana System, Louisiana Tech has the following on-campus residency requirement:

All unmarried full-time undergraduate students, regardless of age or whether or not emancipated, except those living with parents, are required to live in on-campus residence halls as long as space is available, and purchase a meal plan.

The resolutions further define the on-campus residency requirement to include a framework within which the colleges and universities may grant exemptions to the general regulation according to the unique academic character, academic traditions, objectives, and special qualities of each institution, keeping in mind the total objectives of higher education in Louisiana. The philosophy of higher education in Louisiana includes, in addition to the basic and primary educational pursuits, additional enrichment afforded by student life facilities and programs, all of which form an integral part of the total educational experience of the student.

In order to be consistent in granting exemptions from the oncampus residency requirement, all unmarried full-time undergraduate students, regardless of age or whether or not emancipated, except those living with parents, are required to make application if they wish to be considered for an exemption.

Applications for exemption to the on-campus residence requirement must be made in writing to the Student Life Office no later than 14 days prior to the beginning of the quarter. The student is notified by the Student Life Office of the decision rendered by the committee. Forms are available in the Student Life Office, Keeny Hall Rm. 305 or they can be downloaded from <u>www.latech.edu/tech/students/</u>.

Any student who has applied for and been denied an exemption to the on-campus residence requirement shall have

the right to appeal such decision to proper officials in accordance with the provisions and administrative procedures for appeal authorized and established pursuant to the authority of Act 59 of 1969 (L.R.S. 17:3101) and the rules of procedure of the State Board supplemental thereto. Such appeals will be made to the Student Life Office and shall apply only to students who have submitted applications before the listed deadline.

Single, full-time undergraduate students who are living with their parents should contact the Student Affairs Office for information about the commuting process. Completed, notarized forms must be submitted to the Student Affairs Office prior to 14 days before the beginning of the quarter

If the residence halls are full, exemptions to the requirement of on-campus residence hall living may be made according to the following priority:

- First, undergraduate students who wish to live with a close relative, defined as grandparents, married brother, or married sister.
- Second, undergraduate students who wish to live in social fraternity houses.
- 3) Third, seniors.
- 4) Fourth, juniors
- 5) Fifth, sophomores
- 6) Sixth, freshmen.

Within cach of the foregoing classifications, the following additional rules of priority shall be applied:

- First, students who have resided in off-campus housing the longest period of time.
- Second, date application was received.

In addition, an exemption may be applied for in a hardship case or by an older student.

Definitions of Housing Terminology

The following words and phrases, in the absence of clearer indications, have the following interpretations:

- "Living with parent" means any place of abode owned, rented, or leased and occupied by the parent.
- "Living with close relatives" means any place of abode owned, rented or leased and occupied by the grandparent, married brother, or married sister.
- "Living in social fraternity houses" mcans living in any house owned, rented, or leased by a University-recognized social fraternity.
- "Senior" means an undergraduate student who has earned a minimum of 90 semester hours.
- "Junior" means an undergraduate student who has carned a minimum of 60 semester hours.
- "Sophomore" means an undergraduate student who has earned a minimum of 30 semester hours.
- "Freshman" means an undergraduate student who has not yet earned 30 semester hours.
- "Student who has resided in off-campus housing for the longest period of time" means a student who has lived offcampus for the most quarters, other than with a parent.
- "Date application was received" means recording the date the applications for exemption are received in the Student Affairs Office. (Letters received on the same date place individuals on the list in an alphabetical order.)
- "Hardship case" means a person who will suffer significant hardship because of valid financial, medical, or other sound reasons. (Special diets are available in on-campus dining facilities.)

 "Older student" means a person where a determination of fact that such individual is, by virtue of age and experience, incompatible with the residence hall age group.

Students found violating the policy as stated in the above paragraphs are required to move into the residence hall system and pay full room rent and associated fees for the quarter in which the violation occurred. A student is referred to the Behavioral Standards Committee if he/she refuses to move into the residence hall and pay the rent.

Residence Hall Reservations

Room reservation contracts may be secured at the office of the Director of Housing. Applications for residence hall reservations are accepted beginning October 1 of each year for the following summer, fall, winter, and spring quarters. Reservation contracts are not confirmed until the following have been submitted to the University's Housing Office:

- completed residence hall reservation contract and,
- a \$25 non-refundable application fec and \$100 prepayment (check or money order only).

The \$25 non-refundable application fee increases to \$50 after the deadline date. All residence hall students are required to pay for room and meals. Fall assignments are mailed the begining of July, and winter, spring, and summer assignments are mailed one week before the quarter begins.

The Housing Office is located in Harris Hall. For additional information call (318) 257-4917, or log on to www.latech.edu/tech/housing/.

Residence Hall Accommodations

Specific room assignments for new Louisiana Tech students are made according to the date the completed residence hall room contracts for the student and his/her roommate requests, if any, are received. Roommate requests must be mutual and submitted before the deadline. Returning students presently living in the residence halls are re-assigned to their same rooms fall quarter through spring quarter unless a room change is requested. A limited number of halls are open each summer quarter. All buildings close at the end of each quarter.

Signing the Room Reservation Card

At an announced time during each spring quarter, all current residents sign a room reservation card in the Housing Office and make a \$100 prepayment to choose a room for the summer and/or fall quarters or to cancel their fall and/or summer reservation. Those wishing to remain in their same rooms are given first preference. The remaining spaces are given out on a first-come, first-serve basis. Failure to sign a reservation card within the announced timeframe may result in the loss of the resident's current room.

Terms Under Which Residence Hall Rooms are Contracted

The University reserves all rights in connection with room assignments or termination of their occupancy. Occupants of residence hall rooms are held liable for damage to the University property within the room, building, and all other University property they use or to which they have access. Louisiana Tech is not responsible for loss of property in the residence halls due to theft, floods, interruptions of utilities, or other causes. The University does not refund rent for loss of or interruptions in utilities. A personal property insurance policy is recommended.

The \$100 prepayment is refunded upon request no later than July 15 for fall quarter; October 15 for winter quarter; January 15 for spring quarter; and April 15 for summer quarter. Failure to cancel a reservation before the preceding date or failure to claim the room by 5 p.m. the day before late registration begins will cause forfeiture of the prepayment.

The current student who does not return to the residence hall the following quarter must advise the Housing Office of his/her plans and check out of the residence hall by the close of the current quarter. Academically suspended students must check out of the residence halls by Friday of the first week of the quarter.

The student who leaves the residence halls under authorization of the University and in compliance with University rules and regulations, and remains in school will forfeit the unexpended portion of room payment (rent) for the quarter.

"Official check-out" and "conclusion of the use of the room" are defined as having moved all personal belongings out of the room and processed a check-out slip through the Housing Office and a move-out form through the Comptroller's Office.

A student is considered living in the residence hall room until he/she has officially checked out of the residence hall system, concluded the use of the room, and completed the processing of the move-out form with the Comptroller's Office.

A student continues payment for room rent and meals until all official check-out procedures are completed. The student may continue to use the food service, if so desired. To do so, the student must notify the cashier in the Comptroller's Office of this decision when processing the move-out form. If the student does not wish to continue using the food service, the unexpended portion of payment for the pay period involved is forfeited.

The student who resigns from the University receives a 75% refund of room rent prior to the 9^{th} class day and no refund of room rent thereafter. No refunds are given to students who are dismissed from the University or the residence halls for academic or disciplinary reasons.

All penalties and charges incurred during a quarter must be paid at the cashier's window in the Comptroller's Office before the end of the quarter that the charge(s) was incurred, or charges will be held against the student's record and the student cannot register.

Married Student/Family Housing

The University owns 42 apartments located on Tech Farm Road approximately one mile from the main campus off West California Street.

Applications are available: Housing Office Louisiana Tech University Ruston, LA 71272

A \$25 application fee, which is not refundable, must accompany the application. Assignments are made on a first-come, first-serve basis. One member of the couple must be enrolled in class to reside there.

Rent is due on the first of each month and is paid at the cashier's window in Keeny Hall. Students are expected to accept responsibility of making payments promptly; the University does not send a statement of payment due. Rent becomes delinquent on the 15th of each month, and a \$25 late charge will be assessed. Failure to pay on time subjects the student to these penalties: dismissal from the apartment, the University, or both.

These apartments are unfurnished, except for a heater. Only electrical appliances are allowed. Before a key is issued, verification must be shown from the City of Ruston that utilities have been placed in the student's name. Only students and their children, if any, may occupy an apartment. No pets are allowed. A 30-day notice must be given to the Housing Department to vacate an apartment in order to avoid any penalties.

International Students and Faculty

The International Student office provides assistance through orientation programs that help incoming international students adjust to a new environment. During their time at Louisiana Tech, the office provides personal advisement and some educational guidance in addition to helping the student meet all Immigration and Naturalization Service (INS) requirements.

The office does this through assisting students in applications to the INS to work, to replace lost documents or to be reinstated to full-time legal status. The International Student office assists the University in meeting all its INS obligations by maintaining up-to-date immigration files and documentation.

A number of social and cross-cultural programs are coordinated by the office. It also serves as an informational resource for foreign faculty members and staff. The International Student Office serves as a liaison between international students and the American host community.

For additional information call (318) 257-4321, or log on to: www.latech.edu/tech/admissions/iso/

Student Health Center

The Student Health Center has registered nurses on duty between 7:30 a.m. and 4:00 p.m., Monday through Friday. Services are offered free or with minimal charge to all students. Services include, but are not limited to:

- physical assessment of ears, eyes, nose, throat and upper respiratory;
- first-aid treatment for minor injuries;
- removal of stitches and staples;
- blood pressure checks; and
- the administering of allergy and immunization shots.

Limited lab work as well as crutches and heating pads are available. Referrals to medical doctors are made through a voucher system when indicated. Student medical histories are maintained by the Center. Services are located in South Hall. For more information call (318) 257-4866.

Medical expenses for services incurred outside the Health Center are the responsibility of the student. See "Accident and Health Insurance" as described on this page.

Louisiana State law (Act 1047), requires all new students born after December 31, 1956, to provide proof of immunization against measles/mumps/rubella (MMR) and tetanus/diphtheria (TD). Forms for documenting immunization or establishing an exemption to this requirement are available from the Admissions Office. Proof of immunity includes documentation of:

- two measles vaccines administered after January 1, 1968, one of which must have given on or after the first birthday.
- a mumps and rubella vaccine.
- a tetanus/diphtheria combination within the past 10 years.

In the event of an outbreak of measles, mumps, or rubella, students who have not provided documentation of immunity will be excluded from attendance of campus activities, including classes, until the appropriate disease incubation period has expired.

For additional information call (318) 257-4866, or log on to: www.latech.cdu/tcch/students/Health/.

Student Accident and Health Insurance

Accident insurance is provided through the Student Government Association (SGA) by self-assessment paid at the time of fee payment. Details are provided in a flyer distributed by the SGA. In addition, students have the option of purchasing health insurance for their individual needs and/or for their dependents. Applications for this insurance may be picked up at the SGA office. The optional insurance becomes effective on the date the premium and application are received by the contracted carrier.

Counseling Services

The Office of Counseling Services is located in 310 Keeny Hall. Licensed professional counselors and the consultation of a licensed psychologist are available to enrolled students who are experiencing personal/emotional, academic, or career concerns.

- Personal/Emotional Counseling. Personal counseling issues might include those related to adjustment to college, relationships, sexuality, anxiety, stress, anger, eating disorders, depression, and suicidal thinking. Student needs are met for these issues through individual and group counseling.
- Study Skills Development. Students are invited to work with a counselor to determine areas of strength and weakness in their academic strategies. Assessments are offered in both written form and via computer. Upon examination of assessments, the counselor and student determine goals for addressing such factors as time management, examination preparation, anxiety reduction, concentration and memory improvement, and motivation.
- Career Decision Making. Quarterly workshops and individual career counseling are offered to assist students in developing career decision-making skills, in assessing ability, personality, interest and values and in acquiring information about careers. A Career Resource Lab houses current publications as well as a state-of-the-art computerized information retrieval system.
- Alcohol and Other Drug Education. Proactive and remedial programs assist students in understanding use/abuse of alcohol and other drugs, as well as their impact on student development.
- National Testing Center. Information and/or registration material for national tests are provided through the Testing Center in Counseling Services. National standardized examinations offered through this Center include ACT, AHPAT, CLEP, GRE, HOBET, LSAT, MAT, MCAT, NLN, PRAXIS, and TOEFL.

Counseling Services is accredited by the International Association of Counseling Services, Inc. and services are delivered free and under a strict code of confidentiality. For more information about any programs offered through Counseling Services, contact the office in 310 Keeny Hall or phone (318) 257-2488, or log on to: www.latech.edu/tech/students/Counseling/

Career Center

The Carcer Center provides numerous resources and services to students and alumni of Louisiana Tech. Students are encouraged to participate in on-campus interviews and attend seminars that assist in the development of job search skills. Seminars are offered quarterly on the following topics:

- orientation on Career Center services,
- business dining,
- writing an effective resume, and
- the successful interview.

Additional resources include job listings and an extensive career library, which contains informational videos, employer literature, reference materials, professional journals, career education and planning information, and information relating to federal employment opportunities. Learn more about the Career Center at <u>www.careercenter.latech.edu</u> – a site for students, alumni, and employers.

Each year the Center sponsors Fall Career Days, Spring Career Day and Teacher Recruitment Day. Individual appointments are available to students and alumni with concerns about any phase of career planning and development.

The Career Center is located in Keeny Hall 337. For additional information, call (318) 257-4336.

Vehicle Registration

Louisiana Tech requires all faculty, staff, students, and employees who are in any way connected with the University to register their vehicle regardless of ownership and to secure and properly display a parking permit. All vehicles must be registered by the third day of classes for any quarter. Also, vehicles that are purchased or acquired during the quarter must be registered before parking on campus. Only one vehicle may be registered per employee. See vehicle regulations for family or significant other visitor parking rules. Students may register more than one vehicle.

Vchicles may be registered and decals obtained in the Campus Traffic Office located in South Hall.

Each registrant must present a valid driver's license or other picture ID and vehicle registration certificate or bill of sale. All faculty, staff, and students are bound by parking and traffic regulations regardless of whether they register a vehicle. The brochure *Louisiana Tech Vehicle Regulations* may be obtained in the Traffic Office.

Student Conduct

Louisiana Tech University students are expected to conduct themselves in a manner that will not bring discredit but honor to themselves and the institution. Minimal standards of conduct are set forth in the *Code of Student Rights, Responsibilities, and Behavior* brochure. Each student is required to hecome acquainted with the contents of this brochure, which can be obtained in the Office of Student Life or on the web at <u>www.latech.edu/tech/students/judicialhome.htm</u>.

University Police Department

The Louisiana Tech Police Department enhances the University's mission by contributing the following:

- Campus safety. It enforces city, state and federal statutes through vehicular patrol, foot patrol, criminal investigations, narcotic investigations, and police cart patrol. The department enhances the welfare of students by providing assistance as needed (such as escorts, traffic control, officers to increase safety at athletic and special events, and assistance in emergency situations).
- Educational Seminars. It conducts public education seminars in child safety, drug education, theft prevention, and D.W.I. awareness
- Behavioral standards. It enforces behavioral standards for students as provided for in the Code of Student Rights, Responsibilities, and Behavior brochure.
- Always accessible. The department has a 24-hour information and communications center.

Under Louisiana law, R.S. 17:1805, Louisiana Tech police officers have law enforcement authority including the power of arrest and are commissioned by the Department of Public Safety. All Louisiana Tech police officers are graduates of a P.O.S.T. certified basic police academy. Additionally, officers attend advanced training and update training as needed.

The Louisiana Tech Police Department employs 18 commissioned police officers, 1 office coordinator, 1 secretary and approximately 70 student employees.

The Louisiana Tech Police Department is located in South Hall on the corner of Tech Drive and Hergot Avenue. Any on-campus emergency, request for on-campus police assistance, or the reporting of on-campus criminal activity should be made to the Louisiana Tech Police Department at 257-4018.

Patrol officers are radio-dispatched upon call to assist the public 24 hours a day, 365 days a year. Requests for police assistance may also be initiated with one button dialing on any of 23 emergency phones located on the campus.

Criminal activity is investigated by the Patrol and Investigative Divisions of the department, and offenders are subject to criminal prosecution and University action. Criminal activity may also be reported under the Louisiana Tech Crime Stoppers program at 257-4018. Louisiana Tech Crime Stoppers is a regular feature in the student newspaper. Additional procedures for responding to campus emergencies are outlined in the University Safety Manual.

The Louisiana Tech Police Department is a department in the Division of Student Affairs directed by the Chief of University Police who reports to the Dean of Student Life. Additional information on the University Police Department may be found in the Student Handbook or log on to: www.latech.cdu/tech/administration/univpolice.html.

Student Activities and Organizations

Louisiana Tech University provides a variety of organizations to meet the various and diverse needs of its student population. With more than 150 different clubs and organizations to join, one can be assured of finding something of interest. For example, service, governing, professional, and religious/special interest groups exist both on- and off-campus to provide students with opportunities for growth and development outside the classroom.

For example, one such organization is the Student Government Association (SGA) which offers students the possibility of getting involved in politics and government. From a professional perspective, Louisiana Tech offers a number of organizations in the areas of engineering, business, science, education, and liberal arts.

Tech's diversity can surely be seen through such organizations on campus. In the areas of special interest/religious affiliations, Tech has much to be excited about. Special interest clubs meet those needs of our students in a variety of ways. For example, through involvement in the Union Board, the campus entertainment organization, of KLPI, the campus radio station, students can gain valuable experiences that will train them for the future. Also, religious organizations are another vital part of the university life for so many of our students. Service and religious affiliations are a vital part of the development of Louisiana Tech Students.

Involvement in extracurricular organizations and clubs is essential to the overall education of Louisiana Tech students. One can truly benefit by getting involved and taking part in the various areas of student organizations on campus.

Louisiana Tech offers a unique experience to its students, for the numerous clubs and affiliations available and in making Tech the truly special place that it is.

For more information, contact the Office of Student Activities. A complete listing of all organizations and activities can be obtained in order to assist students in the process of getting involved in all that Louisiana Tech has to offer. Log on to: <u>www.latech.edu/tech/students/SCenter/</u> or call the Student activities office at (318) 257-3499.

Chapter 6 - Student Financial Aid

Financial Aid Overview

Louisiana Tech University provides equal educational opportunities for all students, and this policy of equal opportunity is fully implemented in all programs of financial aid available to assist students in obtaining an education at Louisiana Tech.

An extensive financial aid program encompassing scholarships, grants, employment, and loans is available to assist students. Need, skills, and academic performance are carefully weighed to develop a "financial aid package" for qualifying students. Application for the various Federal Aid Programs and the Louisiana Tuition Opportunity Program for Students (TOPS) requires completion of the Free Application for Federal Student Aid (FAFSA). This application allows the applicant to be considered for a Pell Grant, a Supplemental Educational Opportunity Grant, Federal Work-Study positions, Perkins and Stafford loans. This same application allows the dependent student's parent to be processed for a Parent's Loan for Undergraduate Students (PLUS), if requested. The State of Louisiana will use the FAFSA application to trigger a determination of eligibility for TOPS.

Federal Pell Grant Program

Authorized under the 1972 Higher Education Act, this program provides for grants to students seeking a first baccalaureate degree. Grants range from \$400 to \$4,050 per year for full-time attendance.

Federal Supplemental Educational Opportunity Grant Program

This grant is a federal aid program that provides assistance, to the extent that funds are available, for students with exceptional financial need. Grants are available to undergraduate students, and priority consideration is given to Pell Grant recipients.

Louisiana Leveraging Educational Assistance Partnership

This program is a joint effort of the federal government and the State of Louisiana. The grants are available to persons who are bona fide residents of Louisiana and U.S. citizens. Awards are made only to full-time students who meet the academic requirements and who have substantial financial need. Applicants must apply for federal aid using the FAFSA to be considered for the grant program.

Federal Work-Study Program

Employment is available in a wide variety of forms to the student who is willing to work. Areas of work include but are not limited to clerieal, maintenance, food service, laboratories, library, and dormitories. Pay rates begin at federal minimum but may be raised commensurate with skill and experience. Work is limited to avoid interference with academic pursuits. The University participates in the Federal College Work-Study Program designed to assist students with financial need in addition to employment available through individual departments on campus. Graduate students are eligible for employment under this program.

Federal Perkins Loan Program

A Perkins Loan is a low-interest loan designated to help undergraduate students pay educational costs. A student may borrow up to a maximum of \$15,000 during his/her undergraduate program of study. Graduate students are eligible to borrow Perkins loans.

Subsidized and Unsubsidized Federal Stafford Loans

Subsidized Stafford loans are available for students meeting certain qualifications. Loans are awarded up to \$2,625 for firstyear students, \$3,500 for second year students, and \$5,500 per year for undergraduate students who have completed two years. Students in a two-year program are restricted to borrowing \$2,625 for the first year of the two-year program and \$3,500 for the second year of the program, regardless of nnits earned prior to entry into the two-year program. Aggregate loan limits are \$23,000 for dependent, undergraduate loan borrowers.

Unsubsidized Stafford loans are available to independent students in addition to the subsidized loans. The annual limitation is \$4000 in the Freshman and Sophomore years and \$5000 each year after reaching the Junior level. The aggregate limit for both types of loans is \$46,000.

Graduate students are eligible for these loans in amounts up to \$8500 per year subsidized and \$10,000 per year unsubsidized.

Federal PLUS Loan Program

Parent Loans for Undergraduate Students are meant to provide additional funds for undergraduate dependent students for educational expenses. Like Stafford Loans, they are made by a commercial lender such as a bank, credit union, or savings and loan association.

Parents may borrow up to the cost of education minus aid, per dependent student, per year.

The student is advised to check the Louisiana Tech University web site www.latech.edu/finaid for further information on each of these programs. Students and parents may make inquiries via e-mail to techaid@ltfa.latech.edu. or call 318-257-2641. You may also visit the Office of Student Financial Aid in person in Room 240, Keeny Hall or write P. O. Box 7925, Ruston, Louisiana 71272.

Satisfactory Academic Progress for Louisiana Tech Financial Aid Eligibility

Satisfactory Academic Progress policy is the term applied to the requirement imposed by the federal government regarding the grades and course completion standards to be eligible for federal financial aid. The rules are in a policy which is available on the web site at www.latech.edu/finaid. The basic requirements are listed in this Catalog, but the policy is the final rule because federal rules may change after publication of the Catalog. Basically, the requirements are as follows:

- Continuing and transfer undergraduate students must maintain a minimum 2.00 cumulative GPA.
- Graduate students must maintain a minimum 3.00 cumulative graduate course GPA.
- All students must successfully complete a minimum of 67% of the courses in which they enroll at Louisiana Tech during the academic year. Students may not exceed the maximum hours allowed for the degree program as explained herein.

Maximum Hours Attempted and Financial Aid Eligibility

Maximum hours attempted are considered when determining financial aid eligibility. These hours are considered even if financial aid was not received while attempting them. Regardless of where the hours were attempted, Louisiana Tech standards apply. The general rule is 150% of the hours required for the program of study in which currently enrolled. Students lose eligibility for future quarters and future award years after the quarter in which they exceed the maximum hours during the award year.

Transfer Students and Satisfactory Academic Progress

Transfer students must meet all standards defined at Louisiana Tech before being eligible for aid. Transfer transcripts will be reviewed to determine total hours attempted at all prior institutions and compared to the maximum allowed at Louisiana Tech for their intended major and to insure that cumulative GPA and percent completion requirements have been met.

Disabilities and Satisfactory Academic Progress

Students who arrive at Louisiana Tech aware of learning or other disabilities should immediately contact the Office of Disabled Student Services so that appropriate accommodations can be made. A student with a documented disability and functional limitations is still held to the same academic expectations as other students. If the student is registered with the Office of Disabled Student Services and receiving appropriate accommodations, the student should be able to maintain satisfactory academic progress for financial aid eligibility purposes.

Academic Suspension and Financial Aid Eligibility

Students are incligible for financial aid while suspended. An explanation of cumulative grade point averages and their effect on enrollment is found in this Catalog. Contact the Registrar's Office for further information.

Additional Degrees and Financial Aid Eligibility

Students seeking	additional degrees are limited as follows.
Associate	
Bachelor's	
Master's	

Students seeking a third associate, bachelor's or master's degree are not eligible for federal financial aid. Doctoral students are considered terminal degrees thus no federal aid is available for a seeond doctoral program.

Students seeking double majors must complete their degree program for the primary major within the limits set for that major. Additional hours will not be allowed for double majors.

Federal regulations frequently mandate amendments to established policies; consequently, federal financial aid participants (and potential participants) would be well-advised to maintain close liaison with the financial aid office regarding these requirements.

All applicants for federal financial assistance must complete their file in the financial aid office at least one month prior to the beginning of the quarter for which they seek to receive aid. There are earlier priority deadlines and later applications may receive less favorable funding than those meeting deadlines. Applicants are advised that there are federal and University penalties; sanctions, fines and imprisonment, for fraudulent applications.

Return of Title IV Funds Policy

The Louisiana Tech University Financial Aid Office is required to administer a return of federal student aid funds that complies with the Higher Education Reauthorization Act of 1998. Federal financial aid includes the Federal Pell grant, Supplemental Educational Opportunity Grant, LEAP funds, Perkins Ioan, Stafford Ioans, and PLUS Ioans. The policy that follows complies with the federal requirements.

Title IV funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance is awarded. When a student withdraws, the student may no longer be eligible for the full amount of Title IV funds that the student was originally scheduled to receive.

The Financial Aid Office recalculates federal aid eligibility for students who fail to attend, drop out, resign (officially or unofficially), or are dismissed prior to completing more than 60% of the period of enrollment. Recalculation is based on the percent of aid earned using the following formula: Number of days completed divided by the total days in the period of enrollment equals percent earned. Days in the period of enrollment are counted from the first day of class to the last day of class. The date used in the calculation is defined as the date of last attendance. The University must return any unearned aid that was applied to institutional charges. The student then owes the University the amounts returned to the federal aid programs. The student may also be required to return / repay some portion of the federal aid received as a refund by the student. For example, if a student was enrolled for 30% of the period of enrollment, then the student is entitled to only 30% of the aid received; thus, 70% of the aid must be returned to the federal government.

Students who drop after more than 60% of the period of enrollment has passed do not owe immediate paybacks at all. Please be aware that students must have attended at least one class meeting after the 60% point in the period of enrollment.

If this date occurs after the completion of more than 60% of the period of enrollment, the student is considered to have earned 100% of the Title IV aid received.

While this Return of Title IV Funds policy applies solely to students who receive federal financial aid, it must be understood that the Louisiana Tech University refund policy is also applied to all students whether or not they receive federal financial assistance. The student may owe a refund to the University on the basis of University refund rules. Details of the University refund policy are located in the *Racing Form* and quarterly *Expense Sheet*.

Tuition Opportunity Program for Students (TOPS)

The TOPS program is sponsored by the State of Louisiana and administered by the Louisiana Office of Student Financial Assistance (LOSFA). The program provides qualified students with tuition at colleges and universities in Louisiana. There are three levels of award: Opportunity, Performance and Honors. Performance and Honors awards include an additional stipend. Determination of eligibility is based on Louisiana residency, completion of the TOPS core curriculum, cumulative high school GPA on those courses and the ACT composite score. Information is available from high school counselors and the LOSFA web site www.osfa.state.la.us or call 1-800-259-5626. Application for TOPS is made by submitting the Free Application for Federal Student Aid (FAFSA) so that it is received by the federal processor by July 1st. The FAFSA may be submitted on the web through the Louisiana Tech web site at <u>www.latech.edu/finaid</u> or directly to <u>www.fafsa.ed.gov</u>. Paper FAFSA forms may be obtained from high school guidance counselors or by contacting the University Admissions Office at 1-800-LATECH1 or the Financial Aid Office at 318-257-2641 or e-mail Techaid@LTFA.LATECH.EDU.

TOPS has requirements for retention. The required cumulative GPA varies by level of award. All require the completion of 24 semester credit hours in the three regular quarters; Fall, Winter and Spring. Details on retention are provided at the time of award to the student by LOSFA. Further information can be obtained at our web site www.latech.edu/finaid or by visiting our office in Room 240, Keeny Hall.

Monthly Payment Options for Students and Families

Tuition Management Systems offers families several Monthly Payment Options to help make education expenses more affordable. The Interest-Free Monthly Payment Option enables families to spread all or part of the annual expenses over equal, monthly payments. There are no interest charges, and only a small annual fee. This plan includes life insurance protection covering the unpaid balance at no additional cost. Additionally, low-interest monthly payment options, including an unsecured loan, a home equity credit line, and the federally backed loans, are also available. Contact Tuition Management Systems at 1-800-722-4867 or 401-849-1550 for more information on these programs.

Veterans' Orphans Scholarships

Veterans' Orphans Scholarships are awarded to sons and daughters of deceased war veterans. Students should apply to the Department of Veterans' Affairs in their district.

Vocational Rehabilitation Grants

Vocational rehabilitation is a public service program for physically and mentally handicapped individuals. To be eligible, a person must have a permanent disability which constitutes a job handicap. Students with disabilities are advised to contact the Department of Vocational Rehabilitation in their district for consideration of their cases.

Academic Scholarships

Louisiana Tech University has a General Scholarship Program; and, in addition, each of the five colleges (Administration and Business, Applied and Natural Sciences, Education, Engineering and Science, and Liberal Arts) has its own scholarship program administered through the Division of Admissions, Basic and Career Studies. Scholarships are divided into the following categories:

- Academic Scholarships are awarded on the basis of demonstrated ability--usually without regard to need.
- Grant-in-aid and Service Awards. Frequently these are awarded on the basis of special skills and require the student to render a service to the University. Included in this category are scholarships in athletics, music, band, and academic department awards.
- The Air Force Reserve Officer's Training Corps program offers a number of competitive scholarships to both men and women participants. This award may include payment of all tuition and fees, a per quarter allowance for textbooks, and a monthly tax-free cash allowance.

Applying For Scholarships

Students interested in applying should submit a scholarship application with an application for admission, ACT or SAT score, high school and/or college transcripts, and a letter of recommendation to the Office of Admissions. Admissions will forward scholarship information to the colleges that the student has listed as his/her intended major. All applications submitted by December 1 for the following academic year will be given first consideration for all awards.

Bulldog Out-of-State Scholarships

The University of Louisiana Systems Board of Trustees has authorized exemption of out-of-state tuition for certain nonresidents of high academic ability. For more information about such waivers, contact the Office of Admissions. 1-800-LATECH1

Chapter 7 - Special Programs and Facilities

Athletics Opportunities

Louisiana Tech University is a member of the Western Athletic Conference. Louisiana Tech has been a member of the NCAA since 1951. Men's teams include football, basketball, indoor and outdoor track, baseball, cross-country, and golf. Women's teams are basketball, indoor and outdoor track, crosscountry, tennis, softball, and volleyball. This well-balanced sports program provides year-round opportunities for faculty, staff, and students to enjoy athletics on the highest level of collegiate competition.

Barksdale Air Force Base Program

Louisiana Tech has offered an on-base degree program at Barksdale Air Force Base since September 1965. The program is designed for Air Force personnel whose military assignments make it impractical for them to carn college credit and complete a degree program in the traditional manner. Civilians are permitted to participate on a space available basis. On-base offices are maintained in the Base Education Center.

(http://www.barksdale.latech.edu)

Sufficient courses are offered at Barksdale for a student to carn the Associate of General Studies, the Bachelor of General Studies, and the Bachelor of Science in Electrical Engineering Technology. Courses necessary for the Alternative Secondary Teacher Education Certification are also offered. The Master of Arts degree may be earned in Counseling and Guidance and in Industrial/Organizational Psychology. The Master of Business Administration is also offered.

Center for Applied Physics Studies (CAPS)

The mission of the Center for Applied Physics Studies (CAPS) is to provide a world-class, integrated engineering and physics educational and research environment, thereby creating opportunities for interdisciplinary studies, the sharing of resources, and the transfer of technology from basic science to engineering applications. The CAPS program, through the use of multidisciplinary research and teaching efforts, generates a profile of both engineers and physicists who are well-trained to enter a broad spectrum of careers in both physics and engineering.

The CAPS multidisciplinary research and education program combines the strengths of researchers and students from particle physics, biomedical engineering, mechanical engineering, and the Institute for Micromanufacturing (IfM). As a participant in CAPS, each member and student spends a portion of his/her time in crosscollaborative efforts in areas outside of his/her traditional area of expertise. For each project, multidisciplinary research teams are assembled consisting of undergraduate and graduate students, postdoctorals, faculty, and collaborators from other institutions, national labs, and industry.

The major research efforts of CAPS currently span the areas of particle physics, micromanufacturing, microfluidics, and biomedical sensors. Each of the areas has received funding from agencies such as the NSF, NASA, Louisiana Board of Regents Support Fund, DoF, and Louisiana-NASA Space Consortium.

The Particle Physics Group within CAPS is involved in research in high energy, nuclear, and astro-particle physics with major experimental projects at Fermilab, the Thomas Jefferson National Accelerator Facility (TJNAF), Brookhaven National Lab, and the Los Alamos National Lab. A CAPS research team is currently developing a Pizellated Cesium Iodide metal array coupled to a fast-timing bidirectional CCD in collaboration with LSU for use on a Gamma-Ray Balloon Borne Imaging Experiment and for use in Positron Emission Tomography (PET).

The Center is located on the Louisiana Tech Campus in the Engineering Annex. The CAPS facilities consist of a DEC Alphabased computer system, a PSpice-based Electronics Design Station, an AutoCAD Mechanical Design Station, a Detector Development Test Lab, and a Cosmic Ray Test Stand with CAMAC, VME, and FastBUS based Data Acquisition Systems. (http://www.phys.latech.edu/official/research/caps.htm)

Center for Applied Teaching and Learning to Yield Scientific Thinking (CATALyST)

CATALyST, a regional science and mathematics education center housed in the School of Biological Sciences, focuses on improving the scientific and mathematical understanding of K-12 teachers, students, and parents in the public school systems with which it partners. It promotes science and mathematics education and maximizes regional educational resources by offering a menu of professional development activities and model programs to K-12 schools, teachers, administrators, university faculty, parents, students, and providers of preschool education and day care. A major focus of the center is the development of long-term professional development programs for K-12 teachers that are custom designed to meet the needs of the partnering school systems. In addition, CATALyST houses on-going nationally recognized professional development programs for K-12 teachers from throughout Louisiana and surrounding states.

CATALyST disseminates information on regional educational opportunities and programs via a CATALyST website, electronic networking, newsletters, and news releases. CATALyST sponsors a local newspaper column, *CATALyST Conundrums*, that invites students grades 4-8 to submit written solutions to science or math puzzlers; best answers and names and schools of all students submitting correct responses are published in the following column. CATALyST also sponsors the *Journal of K-12 Research in Science and Mathematics*. The journal publishes student-written articles describing science investigations and mathematics projects conducted by students in grades 4-12.

CATALyST is funded by the U.S. Department of Education and funds from partnering organizations. A variety of federal and state funds support specific programs. (<u>http://catalyst.latech.edu</u>)

Center for Biomedical Engineering and Rehabilitation Science (CyBERS)

The Center for Biomedical Engineering and Rehabilitation Science (CyBERS) has been identified as a Center of Excellence at Louisiana Tech University, first by the Louisiana State Legislature in 1985 when it was established, and recently by the University of Louisiana System in a review of all its colleges and universitics. CyBERS and the Biomedical Engineering faculty have long had international acclaim for its physiological research and its rehabilitation engineering and science research and service. Through partnership with the world-class facilities and research in Tech's Institute for Micromanufacturing, Biomedical Engineering faculty have developed expertise in the growing BioMEMS and Nanobiotechnology fields. The Center is also actively engaged in Neural Engineering research. Total external funding for Biomedical Engineering research exceeds \$3M annually from a variety of sources including the Whitaker Foundation. State of Louisiana, NSF, NIH, AFOSR, VA, and US Department of Education. CyBERS is housed in the 23,000 square foot Biomedical Engineering Center. This building includes staff and administrative offices, educational facilities, and research and assessment laboratories. CyBERS' Comprehensive Center for Rehabilitation Technology (CCRT) provides rehabilitation technology services and assessments to the State of Louisiana's Rehabilitation Services agency and other clients. Certified specialists on staff include rehabilitation engineers, a counselor, occupational therapists and assistants, a speech/language pathologist, an adaptive driving evaluator, and a nurse (see http://www.CyBERS.latech.edu). Additional resources of the Center include craftwork shops, graphics and video studios, various vehicles used in the driver-training programs, and animal research facilities. Louisiana Tech University's Biomedical Engineering Program is unique in the country in that it is the only engineering school-based program that directly provides elinical rehabilitation services to individuals with disabilities. Active at the state, national, and international levels, CyBERS provides opportunities for faculty and students from throughout the entire university to participate in the activities and programs of the Center.

Center for Economic Education

The Center for Economic Education is affiliated with the Louisiana Council and the National Council on Economic Education. The Center's primary purpose is to promote an increased level of economic understanding in the elementary and secondary schools of its service area.

Center for Entrepreneurship and Information Technology (CEnIT)

CEnIT creates an innovative entreprencurial culture by enhancing the education of students in information technology and entrepreneurship; promoting the development and conumercialization of information technologies generated by university faculty and students; and providing leadership in entrepreneursbip and information technology outreach activities that will support economic development in the state. CEnIT is a collaboration between the College of Engineering and Science and the College of Administration and Business but involves participation from every college at the institution. The CEnIT Innovation Lab is a technology-rich environment created to support interdisciplinary research, class projects and entrepreneurial activities. (www.cenit.latech.edu)

Center for Real Estate Studies

The Louisiana Real Estate Commission's grant to develop the real estate area at Louisiana Tech constituted the Center's initial funding. The Center coordinates real estate research, funds real estate scholarships, and promotes interaction with real estate professionals.

(http://www.cab.latech.edu/public/DEPTS/cres/index.htm)

Center for Rural Development

The Center for Rural Development provides a linkage between rural residents in Louisiana and experts at Louisiana Tech University in areas that are important to rural development. These include education, nutrition, technology, small husiness development, community design and planning, agriculture and forestry, folklife and the arts. The Center helps rural community leaders access the data, research, and technical assistance that is available at the University.

(http://www.latech.edu/tech.rural/index.html)

The Center's staff also works with Louisiana Tech faculty who wish to do research that pertains to rural development by helping to identify possible community partners for their work.

In addition, the Center seeks to work on rural development projects and research in collaboration with programs at other agencies, non-profits and universities – both in the State of Louisiana and throughout the country.

The Center is also a source of information about funding opportunities in areas relating to rural development and can assist community leaders and Louisiana Tech faculty and staff in identifying potential sources of funding for specific projects. On this website we list current funding opportunities and grants.

The Center issues a quarterly publication -Rural Louisiana, sponsors an annual conference on rural development at Louisiana Tech, and conducts research on topics of interest to those working in rural development in Louisiana.

The Center is entirely supported by external funding sources. The main support for the Center is provided through a special grant from USDA's Cooperative State Research Education and Extension Service (CSREES). In addition, the Center has received a USDA-NRI research grant, a grant from the Southern Region SARE Program, and a contract from the State of Louisiana to support its research and technical assistance projects.

Continuing Education

Today's rate of increase in knowledge has made constant renewal of education a necessity. It is the responsibility of the University to play its part in meeting this need. Louisiana Tech University is committed to learning as a lifelong process. As a means of supporting this commitment, the Division of Continuing Education offers courses that provide learning experiences for both personal enrichment and continuing professional training. Annually, hundreds of people attend events such as non-credit seminars, workshops, and conferences offered through Continuing Education. Course offerings range from non-credit classes to certificate (CEU) courses. Additionally, thousands of employees receive customized training annually through grants or contract training partnerships with area businesses.

Early Childhood Education Center

The Louisiana Tech University Early Childhood Education Center, operated by the School of Human Ecology, is a model education program for three- and four-year-old children. The center offers two half-day sessions during Fall, Winter, and Spring Quarters. The center serves as a learning lab for students enrolled in Family and Child Studies programs and as a student teaching site for students enrolled in Early Childhood Education. In addition, varieties of students from a number of disciplines observe and participate in educational programming at the center. The center is a Louisiana Class A licensed center and is accredited by the National Academy of Early Childhood Programs.

Experiential Education Programs

Experiential Education Programs at Louisiana Tech University are designed to provide quality structured, supervised experiences for qualified students in their chosen professional fields. Experiences include practice, internships, cooperative education, clinicals, and student teaching. In many majors, the experiences are degree requirements; in other majors, the experiences are optional for students who choose to participate. Such experiences will enhance employment opportunities for students and carry academic credit. These programs also serve as an opportunity to integrate the theoretical principles studied in the classroom with the practical knowledge gained from on-the-job performance. Experiential Education Programs are provided in each academic college for a variety of academic majors. The availability of department or college opportunities should be discussed with the respective program director or department head.

Institute for Innovation and Development in Engineering and Science (I.D.E.A.S.)

The College of Engineering and Science renamed its Institute for Effective Engineering Teaching to the Institute for Innovation and Development in Engineering and Science (Institute for I.D.E.A.S.) and broadened its mission to provide for the professional development and growth of the faculty and staff. Through seminars, conferences, and workshops, the faculty and staff learn new and better ways to teach and administer to students. to improve their skills in scholarly activities, and to provide opportunities for professional and technical service-related ventures. Innovative teaching and learning techniques, use of technology both in a regular classroom setting and by distance learning, improved communication and teamwork techniques. accreditation procedures, integrated program curricula development, quality training, and outcomes assessment are just a few of the types of programs that are conducted through the Institute for I.D.E.A.S. The vision of the Institute is to help faculty and staff make a positive impact in their own personal development and to enhance their abilities to serve the students, the university, and the state.

Institute for Micromanufacturing (IfM)

The focus of this Institute is applied rather than basic research, emphasizing the design and development, the metrology, the inspection and testing, and the assembly and production of micron and submicron structures and devices. Related to these microstructures and devices, the following areas are emphasized: sensors, manufacturing techniques, systems, and structures. High priority is given to the transfer of these new technologies to government, academia, and industry and to the education of students, particularly graduate students.

The mission of the Institute is

- to foster partnerships with industry;
- to provide diversity in process research and development activities yielding the best miniaturization technologies for the economic manufacturing of small products;
- to maintain an interdisciplinary and flexible organization capable of adapting to meet the needs of industry;
- to provide service, education, and curricula development in microfabrication technologies.

The Institute for Micromanufacturing is composed of three components. The focal point is the component for research and development located on the Louisiana Tech University campus in Ruston. A second component is associated with the Center for

Advanced Microstructures and Devices (CAMD) in Baton Rouge. This component performs research associated with the x-ray lithography micromachining capability at CAMD. The third component of the Institute is Technology Transfer and Engineering Research. The component is located in Shreveport/Bossicr in order to take advantage of the unique opportunities and resources offered in this region. There is strong interaction among the three components of the Institute, and each of the components interacts to varying degrees with universities, industries, and research centers world-wide.

The main research facility is located on the Louisiana Tech University campus in north-central Louisiana. The 41,000 square foot (3,810 square meter) facility includes 20,000 square feet of environmentally controlled laboratory space with the capability for up to 5,000 square feet of cleanrooms. Laboratory and office facilities have been planned for industrial, governmental, or individual academic collaborators. The IfM is the only facility of its kind in the U.S., and industry representatives are encouraged to be resident at the IfM and to use the facilities to develop micromanufacturing processes for their products. (www.coes.latech.edu/ifin/index.html)

Inter-Institutional Cooperative Program (ICP)

Louisiana Tech University and Grambling State University entered into a cooperative program, the Inter-institutional Cooperative Program (ICP), effective the Fall of 1969. This program facilitates free student exchange between the two institutions, making it possible for students to enroll for courses at both schools. Faculty exchange between the two institutions is also a part of the program.

Application for courses to be taken on the cooperating campuses must be made at the institution where admissions requirements have been met and degree programs are being pursued. Credits gained as a visiting student may apply toward a degree at the home or matriculation school. The student's divisional dean or authorized representative must approve the course or courses selected and the course load. A copy of the student's report card bearing the official seal will be furnished to the home institution at reporting time by the visited institution. Credit from the ICP classes is reported on the home school's transcript as transfer work. To be eligible to participate in the ICP program, a student must pay full-time tuition at the home institution. Louisiana Tech Barksdale, extension classes, and credit examinations are not included in the ICP program.

Lomax Hall Horticultural Conservatory

The public is welcome to visit the Lomax Hall Conservatory and greenhouses. The Conservatory contains a permanent collection of tropical flowering and fruiting ornamental plants enhanced by seasonal displays of poinsettias, chrysanthemums, bulbs, and bedding plants. The greenhouses are used for educational and teaching activities including propagation, production, and demonstration. The Agricultural Sciences Department provides assistance with individual or group tours.

Louisiana Forest Products Development Center

The Louisiana Forest Products Development Center (LFPDC) is part of the School of Forestry, Louisiana Tech University, and the School of Renewable Natural Resources, LSU AgCenter. The

Center attempts to not only develop new technology and products that will add value to forest products, but assure that it is adopted and put into the marketplace and ultimately made available to the consumer, thus improving quality of life for the consumer and improving the economy of the state. The LFPDC was originally established by the Louisiana Legislature as the Louisiana Forest Products Laboratory at both the LSU Agricultural Center and Louisiana Tech University, to provide technical assistance and help in development of value-added processing. To address the needs of Louisiana, the scope of the Lab was broadened in 1994 to include the whole value chain from the forest to the consumer. Overall, the goal of the LFPDC is to aid the state's economy and well being of its people through forest sector development. Visit wcbsite: http://www.rnr.lsu.edu/lfpdc our ог http://www.ans.latech.cdu/forestry-index.html

Louisiana Tech Astronomy Facilities

The astronomy facilities of Louisiana Tech can be used for classroom and laboratory instruction and also for instructional demonstrations to visiting school groups and interested public groups. The facilities at the present time include a Planetarium on the main campus and an Observatory at the Research Park located about 11 miles west of the main campus. The observatory has an eleven-inch reflecting telescope maintained by the Physics Department. A 10-inch Smidt-Cassagrainian mount telescope is also in use.

The Planetarium seats 120 people under its 40-foot diameter dome. A Spitz A4-type instrument projects the sun, moon, and planets as well as about 3,000 visible stars, giving a correct and realistic simulation of the celestial view. The star projector combines with twelve automated slide projectors and a video projector to give visitors an impressive multimedia experience synchronized by a state of the art Theater Control System designed to present accurate, up to date astronomical information. Over 10,000 K-12 students visit the facility each year. Tech students utilize the facility for both academic and leisure activities. The annual Christmas shows attract large numbers of students as well as people from the surrounding communities.

Louisiana Tech Concert Association

The Louisiana Tech Concert Association (LTCA) seeks to enrich the lives of Tech students and members of the various communities with North Central Louisiana by bringing to Howard Auditorium the world's best music, dance, and theatre as performed by professional artists. LTCA is managed through the School of the Performing Arts. For more information regarding current programming, access the following website: http://performingarts.latech.edu.

Louisiana Tech Equine Center

Student instruction, reproductive research, therapeutic riding, and continuing education courses are offered as an integral part of Tech's popular equine program within the Department of Agricultural Sciences. The Equine Center, located on approximately 50 acres on Tech's South Campus, includes pastures for grazing and/or hay production, 12 paddocks, a 16-stall training barn, and an 8-stall stallion barn. The Equine Center typically maintains horses of various breeds year round.

Louisiana Tech Museum

The Louisiana Tech Museum was established July 1, 1982, with the objectives of fostering scholarship at the University, encouraging research by faculty and students, helping educate area

school children, and being a cultural center for the region. Numerous exhibits represent the fields of anthropology, archaeology, architecture, art, biological sciences, geology, history, and technology. More than 10,000 artifacts are included in the Indian collections. The museum is not just for viewing but is also a place where study and research can be conducted.

Louisiana Tech Public Service Information Center

The Center, which is housed in the Research Division of the College of Administration and Business, maintains and processes data from the 1970, 1980, 1990, and 2000 Censuses of Population and Housing as well as personal income data furnished by the U.S. Bureau of Economic Analysis. Computer programs and projects have been developed to generate demographic and economic analyses for the State, regions in the State, and selected areas of the Nation. Short reports, articles, and research projects are prepared, both on an in-house and on a contractual basis, for local, state, and regional organizations.

Louisiana Tech Speech and Hearing Center

The Louisiana Tech Speech and Hearing Center provides diagnostic evaluations and treatment for Louisiana Tech students, as well as individuals of all ages with speech, language, and/or hearing disorders. Located in Robinson Hall, the Center accepts referrals from all sources for its services, which include speech, and hearing evaluation: language, hearing-aid evaluation/dispensing; speech-language therapy; and aural rehabilitation. These services are provided by graduate student clinicians under the direct supervision of faculty who are licensed and hold the Certificate of Clinical Competence in Speech-Language Pathology and/or Audiology awarded by the American Speech-Language-Hearing Association.

(http://www.latech.edu/tech/liberal-

arts/speech/Spch&HearingCenter/S&HCenter.htm)

Louisiana Tech Teachers' Institute

The Teachers' Institute reflects Louisiana Tech University's long-standing commitment to promoting and enhancing the quality of elementary and secondary education. The primary purposes of the Institute are to provide a formal linkage between faculty in Applied and Natural Sciences, Liberal Arts, Engineering and Science, Business, and Education with the public school teachers; to provide a university structure for the development of faculty joint projects; and to provide an administrative structure for the development of grant proposals. Faculty expertise in the various discipline areas are made available to teachers through workshops, courses, and various other activities. Specifically designed courses are taught by the faculty to expand the teachers' knowledge base and to up-date them on the latest developments in the field.

NASA Educator Resource Center (NASA ERC)

The NASA Educator Resource Center is a repository of exemplary science and math materials made available to educators by NASA. Louisiana Tech was selected by NASA in 1999 to serve as the host institution for the ERC serving the entire state of Louisiana. The ERC is housed in the College of Education as a component of SciTEC.

Pre-Professional Programs

Louisiana Tech University provides excellent preparation for the student planning a career requiring advanced study in specialized programs.

Pre-Law

Because of the diversity and complexity of this discipline, there is no single curriculum or course of study which is prerequisite to or guarantees success in law school. Students who intend to study law are referred to the Pre-Law concentration in the Department of Social Sciences, College of Liberal Arts. A choice can then be made based upon personal preference and future goals.

Pre-Medicine and Pre-Dentistry

In pre-medical and pre-dental preparation, a student's major need not be one in a field of science; however, experience shows that the majority of applicants to medical or dental school will have a science major. Students are urged to follow their personal inclinations in selecting a major, recognizing that a physician or dentist should have a broad educational background.

The Pre-medical and Pre-dental Advisory Committee is composed of faculty members representing the disciplines of Biomedical Engineering, Biological Sciences, Chemistry, and Nutrition. Students should select a major and plan a course of study in consultation with a pre-medical or pre-dental advisor.

The minimum requirements for most medical and dental schools include one year each of Biology with lab, General Chemistry with lab, Organic Chemistry with lab, General Physics with lab, Mathematics, and English. Also, applicants are required to submit scores on the Medical College Admission Test (MCAT) or the Dental Admission Test (DAT). The test should be taken in the Spring of the junior year prior to application. It is strongly suggested that these examinations not be attempted until courses in genetics, comparative anatomy, animal physiology, organic chemistry, biochemistry, and physics have been successfully completed.

In the Spring of cach calendar year, personal interviews are conducted by the Pre-medical and Pre-dental Advisory Committee for the purpose of evaluating those students preparing to make formal application to either dental or medical school. This interview is a very important part of the student's application process. After the interview, the Committee prepares recommendations that will be forwarded to the Admissions Committee of the professional schools to which the student has applied.

Alpha Epsilon Delta (AED) is a national pre-medical and predental honor society which is open to students possessing a minimum grade point average of 3.20 and at least 40 semester hours of course work.

Pre-Veterinary Medicine

Students wishing to pursue a career in veterinary medicine are referred to the Pre-Veterinary Medicine Concentration in the Animal Science curriculum. Those who have earned an exceptional grade point average and an acceptable score on the Graduate Record Examination (GRE) may wish to apply for admission to veterinary school during their junior year. These students may become candidates for the B.S. degree in Animal Science after completing the first year of work at a veterinary school.

For assistance in planning a course of study, students should consult with the Pre-Veterinary Medicine advisor in the Department of Agricultural Sciences, College of Applied and Natural Sciences.

Other Health Science Programs

Louisiana Tech offers degree programs in the health science areas, including Nursing, Dietetics, Health Information Management, and Medical Technology.

Nursing: Advisors for the Associate Degree program in Nursing are located in the Division of Nursing, College of Applied and Natural Sciences.

Dietetics: Programs in Dietetics include an undergraduate didactic program, a post-baccalaureate internship, and a graduate program. These are found in the School of Human Ecology, College of Applied and Natural Sciences.

Health Information Management: Both an Associate Degree program in Health Information Technology and a baccalaureate program in Health Information Administration have advisors in the Department of Health Information Management, College of Applied and Natural Sciences.

Medical Technology is a baccalaureate degree program located in the School of Biological Sciences, College of Applied and Natural Sciences.

In addition, there are many other health careers for which Louisiana Tech can offer prerequisite courses to prepare students to enter a professional program at another institution. These preprofessional areas are listed below with the department and college in which they are offered:

Cytotechnology, nuclear medicine technology, respiratory therapy, histological technology, physician's assistant, occupational therapy, physical therapy, surgical assistant, and radiologic technology are in the School of Biological Sciences, College of Applied and Natural Sciences.

Pre-Optometry and **Pre-Pharmacy** are in the School of Biological Sciences, College of Applied and Natural Sciences.

Pre-Professional Speech-Language Pathology is in the Department of Speech, College of Liberal Arts.

Students interested in any of the health science programs named above should contact the department head in whose department the curricula are shown.

Prescott Memorial Library

Centrally located in the heart of campus activities, Prescott Memorial Library offers a full array of information resources and services.

The Library houses an extensive and well-balanced collection of informational sources including over 1.5 million volumes, over 2,700 current periodical subscriptions, over 35,000 maps, and extensive electronic resources. Tech's library is one of only fiftythree U.S. Government Regional Documents Depositories, and it is a depository for Louisiana State Documents, USGS Maps, and Department of Energy Contractor reports. Other facilities within the library include the Electronic Reference Center with twenty computer workstations for research, the Electronic Classroom with workstations for library instruction, and the Student Technology Laboratory with fifty plus computer workstations providing Internet access and productivity software.

Many library services and resources are located on the main floor, easily accessible upon entering the building. Included on the main floor are reference, government documents and reserve book collections, as well as the Electronic Resource Center, the Circulation Desk, and to assist with reference inquiries, the Information Desk.

The third floor contains the complete periodical collection including microforms and the Forestry Library. Upper floors (five-

nine) house the main book collection and provide quiet study space for group and individual use.

Located on the fourth floor are collections for more specialized research. The American Foreign Policy Center is a continuing collection of microfilmed primary source material for the study of U.S. foreign policy. The Department of Special Collections, Manuscripts, and Archives is comprised of the University Archives, the Forestry Archives, the William King Stubbs Architectural Archives, the Camp Ruston collection, and other manuscript collections documenting the history of the University and the region, as well as rare books, maps, and other materials.

The library's faculty and staff welcome the opportunity to serve the students and faculty of the Louisiana Tecb University academic community. The library home page is http://latech.edu/tech/library.

Professional Development and Research Institute on Blindness

This Institute builds on a long standing relationship with the Louisiana Center for the Blind and Louisiana Tech. Its primary focus is initiatives on professional development opportunities for teachers of the blind, development of appropriate curricula and materials for these individuals, development of curricula for preparing teachers of the blind, research on issues of education for blind persons, and dissemination of research and development results. The overall goal of the Institute is "to advance the blindness field by providing the blind and professionals serving the blind with innovative programs and conducting meaningful research that will empower blind people to live independent and productive lives." The Institute is designed to address the needs of the over 16,000 Louisiana blind citizens who have significant education/training needs.

Psychological Services Clinic

The Psychological Services Clinic is part of the Psychology and Behavioral Science Department. The Clinic offers affordable psychological counseling and assessment services to members of the community. The Clinic is staffed by masters and doctoral students who are supervised by licensed psychologists. The Clinic works with the District Attorney's office to provide services for the Pre-Trial Diversion Program and the Truancy Program.

Science and Technology Education Center (SciTEC)

This is an active outreach program of the College of Education organized to serve the surrounding school systems and communities. Activities of the Center include six broad initiatives: professional development programs for inservice teachers, collections of exemplary math and science materials, exemplary undergraduate math and science education, the IDEA Place, the NASA Education Resource Center, and community outreach activities. SciTEC activities are supported exclusively by external funds awarded by such agencies as the National Science Foundation, the Math Science Education Act (MESA), the Louisiana LEARN Commission, the Louisiana Systemic Initiative (LaSIP), the Louisiana Collaborative for Excellence in the Preparation of Teachers, the Louisiana Board of Regents, and private foundations such as the Toyota Foundation and the Rapides General Hospital Foundation.

Small Business Development Center

Louisiana Tech's Small Business Development Center (SBDC) is part of a statewide network of offices providing specialized management assistance, counseling, and training to small business firms and prospective small business owners. The SBDC utilizes the resources and abilities located on campus and throughout the community to target development of technological and student enterprises, opportunities maximizing use of regional resources, and endeavors with the potential to attract new dollars to north central Louisiana. The Small Business Development Center operates in partnership with the U.S. Small Business Administration and the Louisiana Department of Economic Development.

(http://www.cab.latech.edu/public/DEPTS/sbdc/index.htm)

Spatial Data Lab

Louisiana Tech's Geographic Information Systems (GIS) operations are primarily conducted in the Spatial Data Lab and in the Social Sciences' Geography GIS and Cartography Lab. The Spatial Data Lab (SDL), created in 1999, is a state-of-the-art high tech facility used for teaching and research purposes. The SDL has 25 PCs on a Windows 2000 network and runs ArcView, ArcInfo, and ERDAS as well as software for GPS and general computing needs. For hardcopy data input, the SDL houses a large format scanner and digitizer. For hardcopy data output, the SDL has a large format color printer and several smaller printers. Although relatively new, the SDL is already home to several research projects. Some data from the research projects conducted in the lab as well as other types of data for Louisiana will soon be available for download. The SDL hosts a full range of GIScience training options ranging from academic to continuing education courses offered in traditional and distance learning formats. For more information on the SDL or training opportunities in the SDL, visit us at http://sdlab.latech.edu/ .

Study Abroad Programs

Louisiana Tech University encourages its students to participate in varied educational experiences including academic programs that combine the culturally enriching benefits of travel outside the United States. The University currently offers several avenues for study abroad:

- The University sometimes offers specialized study abroad courses or programs through individual academic units at Louisiana Tech University. Proposals for these courses or programs are reviewed by the College Review Tour Committees and the University Tour Committee.
- CODOFIL, the Council for the Development of French in Louisiana and MICFA, the Interuniversity Mission for the Coordination of Franco-American Exchanges provide opportunities for study at the Universities of Paris, France.
- The University is a member institution of two organizations which offer students a wide variety of already-developed study abroad courses and programs at sites all over the world:

Council on International Educational Exchange http://www.ciee.org/program_finder.cfm?subnav=students

The Institute of International Education http://www.iiepassport.org/

For additional information about study abroad opportunities, contact Dr. Dennis Minor, Director of Study Abroad Programs at Louisiana Tech University's Study Abroad Office, P. O. Box 3044, Ruston, LA 71272; or by calling 318.257.2660. More information is available on the Louisiana Tech University Study Abroad Website at

www.latech.edu/tech/courses/english303/studyabroadwebpage.htm

Technology Transfer Center Shreveport

The Technology Transfer Center - Shreveport is located in a new modern educational facility with distance learning capabilities. Louisiana Tech University offers selected undergraduate and graduate coursework, workshops, and conferences addressing the educational needs of northwest Louisiana. The Technology Transfer Center serves as a partner with business, industry, and the medical community in economic development activities related to engineering and technology. (www.cocs.latech.edu/ttcs/index.html)

The IDEA Place

The IDEA Place (Investigate, Discover, Explore, Ask) is a hands-on children's museum designed to provide children and adults an opportunity to experience the excitement of learning about mathematics and science through interactive activities. School groups visit on field trips while pre-service education majors serve as guides. Education majors are encouraged to interact with students and gain valuable pre-student teaching experiences as children explore a variety of phenomena ranging from geologic digs to reflecting in a kaleidoscope.

The essence of the IDEA Place is its interactive exploration of scientific phenomena. The Center now houses the Experiment Gallery, a collection of over 35 interactive hands-on exhibits designed by the Science Museum of Minnesota with funding from the National Science Foundation. The Experiment Gallery features exhibits in each of the following theme areas: Electricity, Weather, Sound and Waves, Light and Optics, and Mechanics. At the Activity Station, preservice teachers provide opportunities for visiting groups to see scientific demonstrations and for participation in a variety of experiments. The Resource Room is available for visitors to further explore topics of interest. Over 10,000 K-12 students visit the IDEA Place each year. (www.latech.edu/ideaplace/)

Trenchless Technology Center (TTC)

The Trenchless Technology Center (TTC) is a university/industry cooperative research center under the College of Engineering and Science. The TTC was established September 1989 to assist in the development of trenchless technologies through basic research, applied research, and technology development activities coupled with educational, outreach, and technology transfer programs. The Center has a small core staff consisting of the Director, an administrative assistant, and a technician. The research activities are conducted by an interdisciplinary group of approximately 25 faculty affiliated with the Center together with graduate students, university technical support staff, and the other industry and/or government partners in the research programs.

The Center has had very active research and technology transfer programs in the areas of pipeline rehabilitation, microtunneling and pipe jacking, and horizontal directional drilling. Market studies for various areas of trenchless technology and for specific companies have also been conducted. The Center

is currently involved in two new research and demonstration programs in the area of trenchless pipe replacement (pipe bursting), several projects studying the long-term performance of pipe lining systems, and a research project related to the management of sewerage systems. Two state-funded exploratory research programs in the soil mechanics area are also underway.

The Center is housed in the main engineering building of the Louisiana Tech campus. The Center has a strong collection of research and informational materials related to trenchless technology and the former library holdings of the Underground Space Center at the University of Minnesota covering a broad range of issues relating to the design, construction, and use of underground facilities. The Center's research utilizes several research facilities on and off campus including a Pipeline Rehabilitation Test Facility located approximately 2 km. from campus designed to provide the ability to test the short- or longterm pressure response of a variety of pipes and pipe lining systems; and a Field Test Facility located on the Louisiana Tech Farm used for a variety of field tests on trenchless technologies. (www.coes.latech.edu/ttc/)

Chapter 8 - Division of Basic and Career Studies

Administration

Jan B. Albritton, Director

The Division of Admissions, Orientation, Basic, and Career Studies serves as a total academic support unit for entering freshmen. While entering freshmen may choose to go directly into one of the five academic colleges on campus, students who are undecided about a major enter Basic and Career Studies. Academic advising, personal counseling, interest testing, and decision-making workshops are available to assist students in making academic decisions. Students may also enter Basic and Career Studies when considering a change in majors.

At any given time, should a student fail to meet the specific requirements of a college, the student may be placed into Basic and Career Studies until grade point and course requirements are met.

Summer Orientation

An orientation and registration program for all new freshmen is held each Summer preceding Fall registration. The Summer sessions, conducted by the Division of Admissions, Basic, and Career Studies, are open to all beginning freshmen who have graduated in May of that calendar year and who have received official notice of acceptance to Louisiana Tech University.

The purpose of the orientation and registration program is to enable the entering student to become familiar with the University, its academic programs, and major courses of study, and to explore educational and vocational interests and goals.

Each student will select courses for the Fall Quarter and complete registration, except for payment of fees.

The objectives of the program are 1) to introduce the student to Louisiana Tech University and make the transition from high school a smooth and orderly process; (2) to provide the student with academic direction and more personal attention through faculty advising and counseling; (3) to acquaint the student with opportunities, responsibilities, and regulations of the University; (4) to register the student for classes with the exception of payment of fees (fees will be paid at the beginning of the Fall Quarter); and (5) to acquaint parents with University standards for students and provide an overview of Louisiana Tech University.

Special orientation sessions for transfer students are also conducted.

Developmental Education Program

This program is intended to assist academically underprepared students in developing their abilities to meet the requirements of college-level courses. The components of this program are courses numbered 099 in English and mathematics.

A student who places in any of the developmental (099) courses must register in those courses if there are openings available in them before he/she registers for any college-level courses. All courses in the Developmental Education Program should be completed in the first four quarters of attendance for full-time students. A maximum of three attempts at a given developmental course will be allowed. The student will be dismissed from the University if this time limit is not met.

Class attendance in the Developmental Education Program is mandatory. After four (4) unexcused absences, the student will automatically be given a grade of "F" in the course. Withdrawal from the developmental education classes will not be permitted unless there are extenuating circumstances. If he/she needs to reduce his/her course load, the student will be required to drop any regular courses before any courses in the Developmental Education Program are dropped.

No credit is allowed in any curriculum for any courses with a catalog number beginning with zero (0) (e.g., English 099).

Scholarships

Louisiana Tech offers scholarship awards through the Admissions Office, as well as through the academic colleges and departments. The deadline for applications is December 1 prior to the year of enrollment. The General Scholarship Form qualifies students for all types of scholarships including those offered through the academic areas.

Tuition Opportunity Program for Students (TOPS)

The TOPS program is sponsored by the State of Louisiana and administered by the Louisiana Office of Student Financial Assistance (LOSFA). The program provides qualified students with tuition at colleges and universities in Louisiana. There are three levels of award: Opportunity, Performance and Honors. Performance and Honors awards include an additional stipend. Determination of eligibility is based on Louisiana residency, completion of the TOPS core curriculum, cumulative high school GPA on those courses and the ACT composite score. Information is available from high school counselors and the LOSFA web site www.osfa.state.la.us or call 1-800-259-5626. Application for TOPS is made by submitting the Free Application for Federal Student Aid (FAFSA) so that it is received by the federal processor by July 1st. The FAFSA may be submitted on the web through the Louisiana Tech web site at www.latech.edu/finaid or directly to www.fafsa.ed.gov . Paper FAFSA forms may be obtained from high school guidance counselors or by contacting the University Admissions Office at 1-800-LATECH1 or the Financial Aid Office at 318-257-2641 or e-mail Techaid@LTFA.LATECH.EDU.

TOPS has requirements for retention. The required cumulative GPA varies by level of award. All require the completion of 24 semester credit hours in the three regular quarters; Fall, Winter and Spring. Details on retention are provided at the time of award to the student by LOSFA. Further information can be obtained at our web site <u>www.latech.edu/finaid</u> or by visiting our office in Room 240, Keeny Hall.

Chapter 9 - Department of Air Force Aerospace Studies

Professor of Air Force Aerospace Studies

Col. Ray T. (Tom) Garza

General

Air Force ROTC is open to all students in any major pursuing a bachelor, master, or doctorate degree.

Purpose

The Mission of Air Force ROTC is to train students to become future leaders in the U.S. Air Force. AFROTC provides instruction and experience to all cadets in a diversified university environment so they can graduate with the knowledge, character, and motivation essential to becoming leaders in the world's greatest and most respected Air Force. Individuals who successfully complete either the two-or fouryear program will be commissioned as Second Lieutenants in the U.S. Air Force.

Objectives

Air Force ROTC Detachment 305's objective is to recruit, select, educate, and commission quality officer candidates.

Requirements for Admission

General Military Course (freshmen and sophomores): Enrollment requirements are as follows:

- 1) possess good moral character,
- 2) must meet age requirements for commissioning,
- 3) be medically qualified, and
- 4) be admitted to the University as a regular full-time student.

Professional Officer Course: (juniors and seniors) Students are selected for the POC on a competitive basis. In addition to those requirements mentioned for the GMC, entrance into the POC requires that a student be a U. S. citizen; meet mental and physical requirements for commissioning; have satisfactorily completed approximately 60 semester hours toward his or her degree; and be in good standing in the institution. Those enrolled in the POC will sign an oath of allegiance to the U. S. and receive a monthly monetary stipend.

Application Requirements

There is no application procedure for the four-year program. Students may simply register for Air Force ROTC in the same manner and at the same time they register for other college courses. Any student wishing to apply for the two-year program should contact one of the active duty officers on the 14th floor of Wyly Tower.

Four-Year Program: This is divided into two distinct categorics--the General Military Course (GMC) and the Professional Officer Course (POC). Any university student may enroll in the GMC. Enrolling in the GMC incurs no military obligation unless on scholarship status. Students may then compete for entry into the POC during their last two years of college. Selection into the POC is highly competitive and is based upon qualification after an Air Force medical examination, scores achieved on the Air Force Officer Qualifying Test (AFOQT), grade-point-average, physical fitness test, and successful completion of a Field Training course.

Two-Year Program: The two-year program consists of the POC--the last two years of the four-year program. The basic requirement is that applicants have two academic years remaining at either the undergraduate or graduate levels, or a combination of both after the completion of the Field Training

course.

Applicants seeking enrollment in the two-year program must pass an Air Force physical exam. They are also evaluated on grade point avcrage, scores achieved on the AFOQT, physical fitness, and a personal interview.

Since the processing procedure must be completed in advance of intended enrollment, interested students must apply early in the academic year preceding the Fall Quarter which they intend to enter the program. Application should be made in writing or by a personal visit to an officer on the 14th floor of Wyly Tower.

Leadership Laboratory Training

In addition to academic training, enrollment in the corresponding Leadership Laboratory is open to students who are members of the Reserve Officer Training Corps or are eligible to pursue a commission. Leadership Laboratory consists of physical, military, and leadership training including the operation of the Cadet Corps. The Cadet Corps is comprised exclusively of cadets. All plans and programs are developed and executed by The Cadet Corps.

Field Training

All cadets must complete Field Training which consists of academic work, orientation to the Air Force environment, and traditional military training. Cadets in the two-year program must, by law, attend five weeks of Field Training prior to POC entry. Four-year program cadets attend four weeks of Field Training, normally between their sophomore and junior years.

Requirements for Commission

Upon completion of the AFROTC Professional Officers Course and receipt of a baccalaureate degree, cadets are eligible for commission as Second Lieutenants in the United States Air Force.

Monetary Allowance While in the POC

All POC members receive a monthly tax-free stipend during this two-year course. Currently students enrolled in the first year of the POC (typically juniors) receive a \$350 monthly stipend while students enrolled in the final year (typically seniors) of the POC receive a \$400 monthly stipend.

College Scholarship Program

Each year the Air Force awards a number of four-, three-, and two-year scholarships on a competitive basis to highly qualified students. Scholarships provide full tuition, most laboratory fees, textbook, and incidental fees, and out-of-state fees if applicable, plus \$250 to \$400 per month for 10 months each year the scholarship is in effect. Louisiana Tech supplements high school AFROTC scholarship winners and incollege scholarship recipients with full room and board for all four years regardless of the length of their scholarship as an incentive for coming to Tech. An AFROTC college scholarship rccipient in any four-year degree program must not turn 31 years of age before Dec 31 of the year of commissioning.

Books and Uniforms

All uniforms and textbooks required for AFROTC courses are furnished by Louisiana Tech and the U. S. Air Force. Each member of AFROTC will make a refundable deposit of \$10.00 to cover possible uniform loss or damage.

Extracurricular Activities

AFROTC sponsors a number of organizations that provide avenues for further personal development for qualified and interested cadets.

Arnold Air Society. The Emmett O'Donnell Squadron of the Arnold Air Society is an organization dedicated to promoting a better understanding of the role of airpower in the aerospace age. This is a national honorary society limited to selected cadets who demonstrate outstanding academic and leadership traits.

Silver Wings Society. Silver Wings Society is a national honorary community service organization sponsored by the Arnold Air Society and the Air Force Association open to any student who meets the flight's qualifications. There is no requirement to be a cadet or member of ROTC to join, and no commitment is incurred. These patriotic students work closely with the Arnold Air Society. They support Cadet Corps activities and promote the USAF and AFROTC through community service.

Honor Guard. The Valkyrie Honor Guard is a military group composed of cadets who perform a variety of ceremonial functions. Those include providing a color guard for campus and civic activities, giving precision drill exhibitions, and competing at the national level in drill competitions.

Orientation Flights and Air Base Visitation. Members are afforded opportunities to fly in military aircraft for purposes of orientation and familiarization. Air Force base visitations are also offered and encouraged.

Formal Military Ball. Cadets sponsor a formal Military Ball annually for the members of the Corps and their invited quests.

Intramural Sports. AFROTC sponsors teams and individuals in all campus sports events.

Housing. The University has designated the 10th floor of Neilson (for males) and the 3rd floor of Harper (for females) as AFROTC floors. All cadets who reside on campus are encouraged to live on these floors, but the choice to do so is strictly voluntary.

University of Louisiana-Monroe (ULM) Students. Air Force ROTC is open to ULM students with all tuition fees waived by Tech provided they take only Air Force ROTC courses.

Academic Credit. The classroom work in both the General Military and Professional Officer Courses is classified as elective work and is credited in varying amounts, depending on the student's degree program. Students should consult with the dean of their particular college if in doubt of the amount of credit allowed.

Aerospace Studies Curriculum Requirements

Freshmen Year	
Acrospace Science 125, 126, 127	
Leadership Lab 155, 156, 157	
English 101 (AFROTC. Scholarship Recipients)	
Sophomore Year	
Aerospace Science 225, 226, 227	
Leadership Lab 255, 256, 2570	
Mathematics 101 or higher	
Junior Year	
Aerospace Science 331, 332, 333	
Leadership Lab 351, 352, 3530	
Senior Year	
Aerospace Science 431, 432, 433	
Leadership Lab 451, 452, 4530	
Graduate with Academic Degree	

Minor in Aerospace Studies

This minor consists of 12 credit hours of upper-level ROTC classes (331, 332, 333, 431, 432, and 433) and 9 credit hours in one of the following areas of study (special authorization can be given by AFROTC to substitute new courses or courses offered on a one time basis that complement the minor): All courses applied toward the minor must be completed with the grade of "C" or higher.

History

313 Military History, 402 History of American Foreign Policy, 466 Contemporary America, 467 America 1960 to the Present, 472 History of American Ideas.

Political Science

201 National Government in the United States, 302 Comparative Foreign Governments, 350 International Relations, 355 American Foreign Policy, 460 Politics of Developing Nations, 465 Asian Politics.

Foreign Language

202 Intermediate Language, 200/300 Level Language Classes.

Sociology

201 Principles and Elements of Sociology, 304 Social Psychology, 312 Minority Groups, 345 Social Stratification 418 Social Control.

Management

201 Supervisory Techniques, 311 Organizational Behavior, 465 Industrial Traffic Management, 470 Personnel Management, 475 Industrial Management, 476 Systems and Operations Management, 478 Seminar in Personnel and Industrial Relations, 485 International Business Management.

Geography

203 Physical Geography, 205 Cultural Geography, 225 World Human Geography (Part I), 226 World Human Geography (Part II), 316 Geography of Latin America, 360 Geography of Europe and Russia.

English/Technical Writing

303 Technical Writing, 332 Advanced Grammar, 361 Scientific Method, 362 Graphics in Technical Writing, 363 Readings in Scientific and Technical Communication, 460 Advanced Technical Writing, 461 Technical Writing for Publication, 462 Technical Editing, 463 Scientific and Technical Presentations, 464 Occupational Technical Writing, 465 Specification, Bid, Grant, and Proposal Writing.

Chapter 10 - College of Administration and Business (CAB)

Administration

Dean

Shirley P. Reagan Associate Dean, Graduate Studies and Research

Marc C. Chopin

Associate Dean, Undergraduate Studies and Administration Elizabeth A. Wibker

Elizabeth A. wibker

School of Professional Accountancy Thomas J. Phillips, Jr., Director

Department of Computer Information Systems and Analysis

Department of Economics and Finance Dwight C. Anderson, Head Department of Management and Marketing Mark J. Kroll, Head

Address

More information about the College of Administration and Business can be obtained by writing: College of Administration and Business P.O. Box 10318 Louisiana Tech University Ruston, LA 71272 (318) 257-4526 and/or visiting the College's web site: <u>http://www.cab.latech.edu</u>

Vision

We will be increasingly recognized for advancing the interests of our stakeholders through instruction, research, and service that

- integrates business, entrepreneurship, and technology;
- · leads to innovation in administration and business; and
- prepares our students to think strategically and become effective leaders.

Mission

Our undergraduate programs equip graduates to succeed in entry-level professional positions in the area of their academic major and/or to pursue entrepreneurial activities. Our master's programs address the continuing professional development needs of those preparing for mid-level general management positions, intrapreneurial/entrepreneurial leadership positions, and advanced specialist positions. Our DBA program equips graduates to become scholars in their disciplines and to think beyond traditional boundaries.

Our graduate programs drive our mission to engage in disciplined-based scholarship that advances knowledge, improves management practice, and enhances business performance. This scholarship is both the foundation and stimulus of the College's commitment to excellence in instruction in our undergraduate and graduate programs.

We serve as exemplars to our students as we utilize our professional skills in service to our College and University, our professional societies, and our community. We recognize an obligation to advance the lifelong professional education needs of our alumni and the broader business community in our area and to contribute toward the economic development of Louisiana.

Instructional Aims

In order to achieve our vision, uphold our mission, and act according to our core values, we must provide educational opportunities that enhance our students' continued development in:

- Understanding Leading-Edge Technology and Practice in a Discipline, including skill in use of quantitative analysis, digital technology, and research.
- Utilizing Cognitive Skills, including critical and creative evaluation of problems, and the capacity to exercise judgment that includes ethical considerations in the solutions offered; the ability to reach beyond traditional boundaries and to integrate insights from both general education and professional disciplines; and the capacity to think strategically.
- Recognizing the Major Internal and External Forces of Change that impact strategic thinking, including the technological, global, and demographic transformations that can be harnessed to achieve a sustainable competitive advantage.
- Enhancing the Capacity to Lead Change, including the ability to participate in, build, and lead teams that span disciplines; the capacity to formulate and communicate a vision that engenders enthusiastic support from an increasingly diverse workforce; and the ability to acknowledge and learn from mistakes as well as from accomplishments as part of a dedication to lifelong learning.

Accreditation

All degree programs offered by the College of Administration and Business are accredited by AACSB International - The Association to Advance Collegiate Schools of Business. Also, all programs offered by the School of Professional Accountancy are separately accredited by AACSB.

Undergraduate Degrees and Curricula

The baccalaureate degree offered by the College is the Bacbelor of Science degree. The four-year curricula leading to the degree of Bachelor of Science are:

- Accounting
- Computer Information Systems
- Business Administration
- Business Economics
- Finance
- Management Business Management and Entrepreneurship
- Management Human Resources Management
- Marketing

History

Among the purposes listed in the original act creating the University was to give instruction in business subjects, and Tech's first graduate, Harry Howard, graduated in 1897 in business. In 1940, the School of Business Administration was created by the Louisiana State Board of Education. In 1970, Tech was designated as a University and the School became the College of Administration and Business.

Business Minors Offered

Non-Business Majors

Students pursuing an undergraduate major in a college other than Administration and Business may earn a minor in one of the following fields:

- Accounting
- Computer Information Systems
- Business Administration
- Economics
- Entrepreneurship
- Finance
- Management
- Marketing

A student must earn a grade of C or better in each course applied toward meeting the requirements of a minor. This requirement will be applicable to new undergraduate students (freshmen and transfers) whose initial enrollment is Fall Quarter 2003 or quarters thereafter.

Accrediting agency standards mandate that students in other colleges pursuing a minor or taking electives in the CAB are limited to a maximum of 27 hours of business courses. Most 300- and 400-level CAB courses are open to non-CAB students with the proper foundation courses (prerequisites) and academic background. For further information contact the appropriate head/director of the academic unit that offers the courses.

Business Majors

Students enrolled in the CAB may pursue a minor in another field of business. Students may apply one "principle course" in the major (Economics minors may count two principle courses—ECON 202 and 312) to the minor, as well as 6 hours of CAB Electives. The other 9 hours required for the completion of the minor will be in addition to the requirements for the major.

A student must earn a grade of C or better in each course applied toward meeting the requirements of a minor. This requirement will be applicable to new undergraduate students (freshmen and transfers) whose initial enrollment is Fall Quarter 2003 or quarters thereafter.

Undergraduate Admissions and Transfer Policies

Admissions Policies

Louisiana Tech's College of Administration and Business seeks to assist students in determining and achieving appropriate educational objectives. Part of the CAB's responsibility to current and future students, and to the general public, is to admit to the CAB only those who, by past educational preparation and demonstrated capability, are prepared to complete their intended curriculum at the CAB's required level of quality.

Generally, students who have an overall, attempted average of 2.0 or higher and are not on probation may be admitted. The complete current statement of admissions requirements may be viewed on the College's web site or obtained upon request to the CAB Dean's office, which makes all admissions decisions and transfers students into the CAB at the beginning of each quarter in accordance with policies in effect at that time.

Transfer Policies

With some exceptions, the College of Administration and Business accepts for degree credit work, such as that taken by examination and at other institutions, in accordance with published policies of Louisiana Tech University as stated in the general information section of the University's Catalog. The final determination of degree credit in any CAB curriculum is, however, made by the CAB Dean's office. Transfer evaluations will reflect all grades earned at another institution, but only grades of C or above will be accepted for credit.

Scholastic Standards

Students pursuing degrees in the CAB must make a C or better in all courses in their major area. For example, all finance majors are required to make a C or better in all finance courses.

Students are responsible for taking courses in the proper order and with the appropriate prerequisites. Credit will <u>not</u> be given for courses taken without the appropriate prerequisites and/or foundation courses.

Students in good standing may carry a normal course load as defined by the University. However, when a student is placed on probation, he/she may schedule no more than 9 semester hours per quarter.

Each time a student is suspended, his/her total academic status is subject to a review by the CAB Scholastic Standards Committee. In addition to acting on appeals for reinstatement from a suspension, the Committee may impose special conditions on a suspended student. The Committee may also unenroll a student from the CAB when the requirements for admission are not being met by the student.

Graduation Requirements

Each student must be admitted to and spend the senior year enrolled in the CAB. In addition, 50% of the required business courses must be taken at Tech. The number of semester hours defined in the senior year and other graduation requirements are the same as for the University.

Catalog Requirements and Changes

All official notices affecting CAB undergraduate students are posted on the bulletin board directly across the hall from the Dean's office (CAB 106) and are posted on the College's web site (<u>www.cab.latech.edu</u>). The notices placed thereon officially update the University Catalog and are binding on students pursuing programs offered by the College.

When students enter the CAB they are subject to all University and CAB policies then in effect. Each student is responsible for meeting all Catalog requirements for graduation, including taking courses in the proper sequence as shown in each curriculum.

When course requirements are changed in the curricula, they are to improve the education of students. Such changes are not retroactive on work already taken by admitted students, but will apply on work yet to be taken, except that the total remaining hours required for graduation cannot be increased and a student is not required to take an added course not available prior to graduation or for which the specified prerequisite course(s) will not have been required.

Each time a student changes curricula or concentrations, reevaluation of all work already taken is done in terms of that particular program's requirements. Five years following the first admission date to a four-year curriculum, a reevaluation of all work previously taken may be required.

Electives

General Education Requirements (GER) in the Natural Sciences must be selected from the following: Physical Sciences - Chemistry 120, 121; Geology 111, 112, 200; Physics 205, 206, 220. Biological Sciences: Biological Sciences 101, 102.

Humanities (GER) courses must be selected from the following: History 101, 102, 201, 202, 360; English 201, 202;

Speech 300; Philosophy 201, 305; any foreign language at the 200-level or above.

Internships

Each discipline in the College of Administration and Business has an internship course that students may apply as credit toward their academic degrees. To register for an internship course, a student should contact the department head/director for his/her major area prior to early advising to secure permission for enrolling in the internship course(s). The student will be advised as to applicable policies and requirements for receiving credit in the course. In addition, the Internship Guidelines are posted on the CAB web site.

Second Baccalaureate Degree in Business

Students outside the College planning to pursue a second baccalaureate degree in the CAB should see the appropriate department head in the CAB to plan their course work and be advised as to the order in which business courses must be taken.

Scholarships

All incoming freshmen students become eligible for scholarships by applying for admission to the University and submitting the requisite scholarship applications available through the Division of Admissions, Basic and Career Studies. In addition, the following are examples of endowed scholarships available to students pursuing a degree in the CAB.

- William Roy and Maxine R. Adams, Jr. Scholarship (Accounting)
- Century Telephone Enterprises, Inc./Clarke M. Williams, Jr. Memorial Scholarship
- O.B. Clark Endowment for Business Scholarships
- Eugene L. Gill Scholarship (Accounting)
- Loraine N. Howard Endowed Scholarship (CIS)
- Lothar I. Iverson Memorial Scholarship
- The William A. and Virginia Lomax Marbury Endowment for Business Scholarships
- Mike McCallister Scholarship
- Travis E. Melton Scholarship (Accounting)
- J. Murray Moore Scholarship
- Edward L. Moyers Scholarship
- W.R. "Reggie" Rives Scholarship (Accounting)
- Lawson L. Swearingen-Commercial Union Assurance Companies Scholarship
- The George Curtis and Esther Belle Taylor Endowment for Business Scholarships
- Cynthia Ann Clark Thompson Memorial Scholarship (Accounting)
- The Thomas A. and Lucinda Ritchie Walker Endowment Fund Scholarship
- Charles L. Wingfield-C.I.T. Financial Scholarship

Scholarships administered by the CAB are awarded by faculty scholarship committees and information may be obtained by contacting the Office of the Dean.

Organizations

Beta Gamma Sigma

Beta Gamma Sigma is the national honorary scholastic society for students in all fields of business. It is the scholastic society recognized by the Accreditation Council of the Association to Advance Collegiate Schools of Business (AACSB). A school or college of business administration must be a member of the Accreditation Council of the AACSB in order to have a chapter of Beta Gamma Sigma. Membership in the society is highly prized as a badge of merit recognized by leading business administrators everywhere.

Business Students Association

The official student body organization of the College is the Business Students Association. Dues are assessed each quarter, and the assessment is an official charge recognized by the College.

Other professional organizations for students include:

- Accounting Society
- American Marketing Association
- Association of Information Technology Professionals
- Association of Business, Engineering, and Science Entrepreneurs
- Beta Alpha Psi Fraternity (accounting honor society)
- Delta Sigma Pi (professional business fraternity)
- Financial Management Association
- Omicron Delta Epsilon (economics honor society)
- Phi Beta Lambda
- Society for Human Resource Management

Bachelor Degree Programs

School of Professional Accountancy

The accounting profession affords individuals a large variety of opportunities in business. Graduates are found in numerous managerial positions since their accounting background offers them upward mobility in any business environment. Accounting also continues to be a field with one of the highest demands for graduates. To meet this demand, the curriculum provides a thorough education in the accounting discipline, together with a broad liberal arts and business background

Mission

The School of Professional Accountancy (SPA) is dedicated to the intellectual growth of its students and to their preparation for successful careers and productive lives. To this end, the SPA offers academic degrees in accounting at the undergraduate, master's, and doctoral levels characterized by extensive, personal faculty-student interaction. The curricula are designed to provide students an understanding of business administration with a focus on accounting.

Our undergraduate program equips students with the knowledge and technological skills for positions in public accounting, industry, and government, and prepares students for graduate programs. The masters' programs provide continuing professional development for students who desire careers where stronger skills are essential. The doctoral program in accounting prepares students for academic careers primarily in universities that value a balanced emphasis among instruction, research, and service.

Programs

The School of Professional Accountancy undergraduate and master degree programs accredited by AACSB International -The Association to Advance Collegiate Schools of Business. The School is a charter member of the Federation of Schools of Accountancy and currently holds full membership in this organization.

The School of Professional Accountancy offers a four-year accounting program leading to the Bachelor of Science (BS) degree and a fully integrated five-year accounting program leading to the Master of Professional Accountancy (MPA) degree.

Accounting Curriculum (BS)

Program Objectives

Broad Objectives

1. Provide students with the knowledge and tools needed to obtain meaningful employment and have successful careers.

2. Prepare students for graduate school.

3. Provide the educational background for students to meet the educational requirements of various professional accounting certification examinations.

Learning Objectives

1. Provide students with a general knowledge of business with a focus on accounting.

- 2. Enable students to improve their analytical skills.
- 3. Expand student awareness of ethical issues.
- 4. Enhance students' technological skills.

Program Requirements

A grade of C or better must be earned in all accounting courses. Students may not enroll in higher level accounting courses until this minimum in previous courses has been met. Students enrolling in the accounting program will normally be allowed to schedule a maximum of two accounting courses simultaneously in a single quarter.

Transfer students electing this curriculum will be required to take at least 15 semester hours in accounting courses numbered 300 and above, of which at least 6 hours must be at the 400level, at Louisiana Tech. Any student currently enrolled in the accounting program may not transfer an accounting course from another institution without the approval of the director.

Pre-Professional Curriculum

Freshman Year
Administration & Business 110
Computer Literacy (GER)
Computer Information Systems 110
English (GER)
Humanities (GER)
History
Mathematics (GER)
Mathematics 125, 222
Natural Sciences (GER)
Social Sciences (GER)
Psychology 102 or Sociology 2013
Elective
30
Sophomore Year
Accounting 201, 202
Business Law 255
Social Science (GER)
Economics 201, 2026
Humanities (GER)

English 201 or 202	
Natural Sciences (GER)	
Social Sciences (GER)	
Political Science 201	3
Quantitative Analysis 233	
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(GER): General Education Requirements (see pg. 14 for full description)

Students are reminded of their obligation to obtain program information and advice on meeting all program requirements from the director's office.

Advanced Professional Curriculum (BS)

Auvanceu Professional Curriculum (DS)	
Junior Year 12	
Accounting 303, 304, 305, 307 12	
Arts (GER)	
Business Communications 305 or English 303 or 336	
Elective	;
Humanities (GER)	
Speech 377 or 110	i.
Management 310	;
Marketing 300	5
0	
30	ĵ.
Senior Year	
Administration & Business 495	i
Accounting 308, 413	;
Accounting Elective (300- or 400-level)	
Computer Information Systems 310	
Economics 312	
Finance 318	
Humanities (GER)	
Directed Electives*	
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(GER): General Education Requirements (see pg. 14 for full description) *Directed Electives are chosen by the student in consultation with the faculty advisor. These electives are limited to 3 hours of accounting courses.

Students must meet established GPA requirements and submit an admission application with Graduate Management Admission Test (GMAT) scores to be considered for admission to the graduate phase.

Master of Professional Accountancy Curriculum (MPA) Graduate Year

Accounting 506 or 507, 508, 513, 521	
Accounting Electives*	
Directed Electives**	6
Business Law 410	
	30

Total Semester Hours for M.P.A. degree 150

*Accounting 505 may not be taken as an elective.

**Directed Electives are chosen by the student from 500-level, nonaccounting CAB courses in consultation with the faculty advisor.

Minor in Accounting for Non-CAB Students: Accounting 201 (or 206), 202, 303; and 9 hours of 300- or 400-level courses in Accounting to complete 18 semester hours.

Minor in Accounting for CAB Students: Accounting 202, 303; and 12 hours of 300- or 400-level courses in Accounting to complete 18 semester hours.

Department of Computer Information Systems and Analysis

Computer Information Systems Curriculum (BS)

The Computer Information Systems (CIS) curriculum prepares students for careers by stressing the application and use of information technology in the business environment. The CIS curriculum provides learning experiences in systems analysis, design, and implementation; project management; ecommerce; telecommunications; networking; databases; programming; and interpersonal communication. As the increase in the use of technology in business continues, growth is predicted in the demand for people with these skills.

Program Objectives

- 1. Students will understand the "real world" of information systems as enablers of successful performance, organizational strategy, and the integration of all organizational levels and business functions.
- 2. Students will acquire skills in designing and implementing information technology solutions that enhance organizational performance; modeling organizational process and data; defining and implementing technical and process solutions; managing projects; integrating systems; acquiring, converting, transmitting, and storing data and information; and achieving organizational goals through IT applications.

Program Requirements

A grade of C or better must be earned in all CIS courses.

Freshman Year
Administration & Business 110
Computer Literacy (GER)
Computer Information Systems 110
English (GER)
Humanities (GER)
History
Mathematics (GER)
Mathematics 101, 1256
Natural Sciences (GER)
Social Sciences (GER)
Psychology 102 or Sociology 201
Elective
30
30
Sophomore Year
Sophomore Year Accounting 201, 202
Sophomore Year Accounting 201, 202
Sophomore Year Accounting 201, 202
Sophomore Year Accounting 201, 202
Sophomore Year Accounting 201, 202
Sophomore Year Accounting 201, 202
Sophomore Year 6 Accounting 201, 202 6 Business Law 255 3 Social Science (GER) 6 Economics 201, 202 6 Computer Information Systems 339 3 Natural Sciences (GER) 6 Social Science (GER) 6
Sophomore Year 6 Accounting 201, 202 6 Business Law 255 3 Social Science (GER) 6 Economics 201, 202 6 Computer Information Systems 339 3 Natural Sciences (GER) 6 Social Science (GER) 6
Sophomore Year Accounting 201, 202 6 Business Law 255 3 Social Science (GER) 6 Economics 201, 202 6 Computer Information Systems 339 3 Natural Sciences (GER) 6
Sophomore Year Accounting 201, 202 6 Business Law 255 3 Social Science (GER) 6 Economics 201, 202 6 Computer Information Systems 339 3 Natural Sciences (GER) 6 Social Science (GER) 6 Social Science (GER) 6 Political Science 201 3
Sophomore Year Accounting 201, 202 6 Business Law 255 3 Social Science (GER) 6 Economics 201, 202 6 Computer Information Systems 339 3 Natural Sciences (GER) 6 Social Science (GER) 6 Social Science (GER) 6 Political Science 201 3
Sophomore Year 6 Accounting 201, 202 6 Business Law 255 3 Social Science (GER) 6 Computer Information Systems 339 3 Natural Sciences (GER) 6 Social Science (GER) 6 Social Science (GER) 6 Political Science 201 3 Quantitative Analysis 233 3

Arts (GER)	3
Business Communication 305 or English 303 or 336	.3
Humanities (GER)	
English 201 or 202	.3
Additional Humanities Course	.3
Economics 312	.3
Computer Information Systems 310.	.3
Finance 318	.3
Management 310, 333	.6
Marketing 300	3

	30
Senior Year	
Administration & Business 495	
Computer Information Systems 323, 335, 337, 444, 450	15
Directed Electives* (CAB 300- or 400-level course)	6
Elective	3
Humanities (GER)	
Speech 377 or 110	3
	30

(GER): General Education Requirements (see pg. 14 for full description) *Directed Electives are chosen by the student in consultation with the faculty advisor. Minor in Computer Information Systems for Non-CAB Students: Computer Information Systems 310, 339; and 12 hours of 300- or 400-level courses in Computer Information Systems to complete 18 semester hours (Students pursuing this minor must have credit for CIS 110 or its equivalent prior to registering for CIS 310).

Minor in Computer Information Systems for CAB Students: Computer Information Systems 310, 339; and 12 hours of 300or 400-level courses in Computer Information Systems to complete 18 semester hours

Department of Economics and Finance

Business Administration Curriculum (BS)

Rapid changes in the business world have made it essential that future business administrators be broadly educated in order to adjust and adapt themselves to changing practices. Therefore, this curriculum allows a student to receive instruction in a variety of functional areas of business. This program is appropriate for non-technical, entry-level positions and is an excellent background for students planning certain advanced degrees in business and law.

Program Objectives

1. Students will obtain a broad exposure to the field of business.

2. Students can tailor the curriculum to match their career interests.

Program Requirements

A grade of C or better must be earned in all courses designated with **.

Freshman Year
Administration & Business 110
Computer Literacy (GER)
Computer Information Systems 110
English (GER)
Humanities (GER)
History
Mathematics (GER)
Mathematics 101, 125
Natural Sciences (GER)
Social Sciences (GER)
Psychology 102 or Sociology 201
Elective
30
Sophomore Year
Accounting 201, 202
Business Law 255
Social Sciences (GER)
Economics 201, 202
Political Science 201
Humanities (GER)
English 201 or 202
Natural Sciences (GER)
Quantitative Analysis 233
30
Junior Year
Arts (GER)
Business Communication 305 or English 303 or 336
Computer Information Systems 310
Economics 312
Finance 318
Management 310, 333
Marketing 300
Humanities (GER)
Speech 377 or 110

Additional Humanities Course3

30

Senior Year	
Administration & Business 495	3
Flective	
Directed Electives* (300- or 400-level)	
Directed Elective* (300- or 400-level)**	
Accounting or CIS Elective (300- or 400-level)**	3
Economics Elective (300- or 400-level)**	3
Finance Elective (300- or 400-level)**	
Management Elective (300- or 400-level)**	
Marketing Elective (300- or 400-level)**	
	30
Total Semester Hours	

(GER): General Education Requirement (see pg. 14 for full description) *Directed Electives are chosen by the student in consultation with the faculty advisor.

** A grade of C or better must be earned in this course.

Minor in Business Administration for Non-CAB Students: Accounting 201, 202; Computer Information Systems 310; Economics 215; Finance 318; Management 310; and Marketing 300 for a total of 21 semester hours.

Business Economics Curriculum (BS)

Economics majors are employed in all sectors of the economy--government, industry and finance, and non-profit organizations. In addition, undergraduate training in economics is an ideal major for those contemplating continuing their formal education in public administration, general business administration, or law.

The use of economists in all areas of the economy has expanded rapidly and is expected to continue. Business economists perform a wide variety of tasks for governmental agencies and private organizations, such as statistical and general research, pricing and marketing, financial analysis, economic regulation, and forecasting business conditions.

To function effectively, the business economist must have both knowledge of theory and an understanding of economic and business facts and institutions. Although not all economists specialize in statistical or mathematical analysis, an adequate knowledge of mathematics is usually required. Students can also broaden their training by combining their economics major with other areas of their interest.

Program Objectives

1. Students will understand price, production, and distribution theories and practices.

2. Students will understand the dynamics of the supply and demand for money and the role of the central bank in the money supply process.

3. Students will understand the origins and operations of human capital allocation.

4. Students will be able to analyze monetary and fiscal policies and their impact on business and society.

Program Requirements

A grade of C or better must be earned in all economics courses.

Freshman Year	•
Administration & Business 110	3
Computer Literacy	
Computer Information Systems 110	3
English (GER)	6
Humanities (GER)	
History	3

Mathematics (GER) Mathematics 101, 125
Psychology 102 or Sociology 201
Sophomore Year
Accounting 201, 202
Business Law 255
Social Sciences (GER)
Economics 201, 202
Political Science 201
Humanities (GER)
English 201 or 202
Natural Sciences (GER)
Quantitative Analysis 233
30
Junior Year
Arts (GER)
Business Communication 305 or English 303 or 336
Computer Information Systems 310
Economics 312
Humanities (GER)
Speech 377 or 110
Additional Humanities Course
Management 310, 333
Marketing 300
30
Senior Year
Administration & Business 495
Accounting or Finance Elective
Directed Electives* (300- or 400-level)
Elective
Economics 408, 437
Economics Electives (300- or 400-level)
Total Semester Hours

(GER): General Education Requirement (see pg. 14 for full description) *Directed Electives are chosen by the student in consultation with the faculty advisor.

Minor in Economics for Non-CAB Students: Economics 201 (or 215), 202, 312; and 9 hours of Economics courses at the 300or 400- level to complete 18 semester hours.

Minor in Economics for CAB Students: Economics 202, 312; and 12 hours of Economics courses at the 300- or 400- level to complete 18 semester hours.

Finance Curriculum (BS)

The Finance eurriculum provides students with the background to enter a variety of financial fields. The curriculum is designed for students who have an interest in financial management (including financial position analysis, working capital management, funds acquisition and capital investment analysis), commercial banking, securities analysis, insurance, and real estate.

Transfer students electing the Finance curriculum will be required to take at least 12 semester hours in finance courses at Louisiana Tech. Any student currently enrolled in the finance program may not take a finance course at another institution without the prior approval of the department head. In addition, finance majors are encouraged to take 3 hours (one course) of their Directed Electives in accounting or economics.

Program Objectives

1. Students will know the fundamentals of financial management, securities analysis, capital markets, and financial institutions.

2. Students will be able to access and utilize financial databases.

3. Students will understand global capital flows.

4. Students will be able to make decisions within a market valuation context.

Program Requirements

A grade of C or better must be earned in all finance courses.

Freshman Year	
Administration & Business 110	
Computer Literacy (GER)	
Computer Information Systems 110	
English (GER)6	
Humanities (GER)	
History	
Mathematics (GER)	
Mathematics 101, 125	
Natural Sciences (GER)	
Social Sciences (GER)	
Psychology 102 or Sociology 201	
Elective	

	30
Sophomore Year	
Accounting 201, 202	6
Business Law 255	
Social Sciences (GER)	
Economics 201, 202	6
Political Science 201	
Humanities (GER)	
English 201 or 202	
Natural Sciences (GER)	6
Quantitative Analysis 233	

	- 30
Junior Year	
Arts (GER)	3
Business Communication 305 or English 303 or 336	
Computer Information Systems 310	
Economics 312	3
Finance 318, 319	
Humanities (GER)	
Management 310	
Management 333 or Accounting 308	
Marketing 300	
•	

	- 30
Senior Year	
Administration & Business 495	
Elective	
Directed Electives* (300- or 400-level)	
Finance 414, 425	6
Finance Electives	9
Humanities (GER)	
Speech 377 or 110	3
	30

(GER): General Education Requirement (see pg. 14 for full description) *Directed Electives are chosen by the student in consultation with the faculty advisor.

Minor in Finance for Non-CAB Students: Economics 215; Accounting 201, 202; Finance 318; and 9 hours of 300- or 400level Finance courses to complete 21 semester hours. Minor in Finance for CAB Students: Finance 318; and 15 hours of 300- or 400- level Finance courses to complete 18 semester hours.

Department of Management and Marketing

Managers are found at every level and in every kind of private and public organization. All managers have the responsibility of helping their organizations meet their objectives.

A career in management is ideal for those who possess good leadership qualities and have the ability to work well with other people. Individuals interested in management should be creative, outgoing, and have the ability to guide and motivate people toward common goals.

Management - Business Management and Entrepreneurship Curriculum (BS)

Designed for the student who desires training in general business management, the Business Management and Entrepreneurship curriculum concentrates on management courses such as personnel, sales, small businesses, and industrial management. Other courses include the legal aspects of government and business, marketing research, and managerial economics.

Graduates of this program often seek management trainee positions with established firms or governmental bodies. Others use their training to become entrepreneurs and start their own businesses.

Program Objectives

1. Students will be able to assess current organizational and environmental realities and to anticipate future challenges and opportunities in order to accomplish organizational objectives.

2. Students will understand organizational structure and process, be able to facilitate the development of a strategic perspective, be able to manage the processes of an existing enterprise, and to design the processes and structures needed for a new enterprise.

3. Students will be able to work in a culturally diverse environment and to manage contemporary organizations effectively.

Program Requirements

A grade of C or better must be earned in all management courses.

Freshman Year
Administration & Business 110
Computer Literacy (GER)
Computer Information Systems 110
English (GER)
Humanities (GER)
History
Mathematics (GER)
Mathematics 101, 125
Natural Sciences (GER)
Social Sciences (GER)
Psychology 102 or Sociology 201
Elective
30
Sophomore Year
Accounting 201, 202
Business Law 255
Social Sciences (GER)
Economics 201, 202
Political Science 201
Humanities (GER)
English 201 or 202
Natural Sciences (GER)
· · · · · · · · · · · · · · · · · · ·

	30
Junior Year	
Arts (GER)	3
Business Communication 305 or English 303 or 336	
Computer Information Systems 310	
Elective	3
Economics 312	3
Finance 318	3
Management 310, 333	6
Marketing 300	3
Humanities (GER)	
Additional Humanities Course	3
	30

Senior Year	
Administration & Business 495	3
Management 340, 400, 470, 475	12
Management 476 or 485, or Marketing 482, or	
Quantitative Analysis 430	3
Directed Electives* (300- or 400-level)	9
Humanities Elective (GER)	
Speech 377 or 110	

30

Minor in Entrepreneurship for Non-CAB Students: Accounting 206; Business Law 255; Economics 215; Marketing 300; and Management 305, 340, 400.

Management - Human Resources Management Curriculum (BS)

Human Resources Management is often referred to as personnel management or industrial relations. Job opportunities for personnel specialists exist throughout the country in both the private and public sectors.

Program Objectives

1. Students will understand the role of strategic human resource planning in achieving a competitive advantage in a challenging and increasingly global environment.

2. Students will have knowledge of the functional areas of human resource management, including planning, recruitment, selection, compensation, performance appraisal, training and development, personnel law, ethics, labor relations, managing diversity, career development, and mentoring.

Program Requirements

A grade of C or better must be earned in all management courses.

Freshman Year	
Administration & Business 110	
Computer Literacy (GER)	
Computer Information Systems 110	
English (GER)	,
Humanities (GER)	
History	6
Mathematics (GER)	
Mathematics 101, 125	j
Natural Sciences (GER)	6
Social Sciences (GER)	
Psychology 102 or Sociology 201	
Elective	,

Sophomore Year
Accounting 201, 202
Business Law 255
Social Sciences (GER)
Economics 201, 202
Political Science 201
Humanities (GER)
English 201 or 202
Natural Sciences (GER)
Quantitative Analysis 233
30
Junior Year
Arts (GER)
Business Communication 305 or English 303 or 336
Computer Information Systems 310
Elective
Economics 312
Finance 318
Management 310, 333
Marketing 300
Humanities (GER)
Additional Humanities Course
30
Senior Year
Administration & Business 495 3
Management 447, 470, 472, 478 12
Management Elective (300- or 400-level)
Directed Electives* (300- or 400-level)
Humanities (GER)
Speech 377 or 110
30
Total Semester Hours 120

(GER): General Education Requirement (see pg. 14 for full description) *Directed Electives are chosen by the student in consultation with the faculty advisor.

Minor in Management for Non-CAB Students: Management 310; and 15 hours from 300- and 400-level Management courses to complete 18 semester hours.

Minor in Management for CAB Students: Management 310; and 15 hours from 300- and 400-level Management courses to complete 18 semester hours. (MGMT 333 cannot be used for credit in the minor.)

Marketing Curriculum (BS)

In the past several decades, marketing has become the focal point of many business operations. The Marketing curriculum prepares individuals for a wide range of positions in this exciting field. These positions include retailing, advertising, sales and sales management, wholesaling, product development, public relations, and marketing research.

Program Objectives

1. Students will understand the domestic and global aspects of product management, pricing, distribution, and promotion of goods, services, and ideas that satisfy both consumer and organizational buyers.

2. Students will understand the marketing process and its interaction with the legal, political, economic, social, cultural, technological, competitive, and ethical environments. This understanding of the marketing process includes competitive analysis and strategic planning and how these functions facilitate the operation of the overall organization.

30

Program Requirements

A grade of C or better must be earned in all marketing courses.

Freshman Year	
Administration & Business 110	3
Computer Literacy (GER)	
Computer Information Systems 110	
English (GER)	
Humanities (GER)	
History	3
Mathematics (GER)	
Mathematics 101, 125	6
Natural Sciences (GER)	
Social Sciences (GER)	
Psychology 102 or Sociology 201	
Elective	
	30
Sophomore Year	
Accounting 201, 202	
Business Law 255	
Social Sciences (GER)	
Economics 201, 202	6
Political Science 201	
Humanities (GER)	
English 201 or 202	3
Natural Sciences (GER)	6
Quantitative Analysis 233	3
	30
Junior Year	30
Junior Year Arts (GER)	30
Junior Year Arts (GER) Business Communication 305 or English 303 or 336	
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310	30
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective	30 3 3 3 3
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312	30 3 3 3 3 3
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318	
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333	30 30 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300	30 30 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300 Humanities (GER)	30 30 33 33 33 33 33 33 33 33 33 33 33 3
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300	30 30 33 33 33 33 33 33 33 33 33 33 33 3
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300 Humanities (GER)	30 30 33 33 33 33 33 33 33 33 33 33 33 3
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300 Humanities (GER) Additional Humanities Course Senior Year	30 30 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300 Humanities (GER) Additional Humanities Course Senior Year	30 30 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Elective Economics 312 Finance 318 Management 310, 333 Marketing 300 Humanities (GER) Additional Humanities Course Senior Year Administration & Business 495	
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300 Humanities (GER) Additional Humanities Course Senior Year Administration & Business 495 Marketing 320, 473, 482 Choose any 3 courses from the following:	30 3 3 3 3 3 3 3 3 3 3 3 3 3 3 30
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300 Humanities (GER) Additional Humanities Course Senior Year Administration & Business 495 Marketing 320, 473, 482 Choose any 3 courses from the following: Marketing 307, 420, 425, 435, 485	30 3 3 3 3 3 3 3 3 3 3 3 3 30
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300 Humanities (GER) Additional Humanities Course Senior Year Administration & Business 495 Marketing 320, 473, 482 Choose any 3 courses from the following:	30 3 3 3 3 3 3 3 3 3 3 3 3 30
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300 Humanities (GER) Additional Humanities Course Senior Year Administration & Business 495 Marketing 320, 473, 482 Choose any 3 courses from the following: Marketing 307, 420, 425, 435, 485 Directed Electives* (300- or 400-level) Humanities (GER)	30 3 3 3 3 3 3 3 3 3 3 3 3 3 30 30 30 30 30 30 30 30 9 9 6 6 9 6 9 6
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300 Humanities (GER) Additional Humanities Course Senior Year Administration & Business 495 Marketing 320, 473, 482 Choose any 3 courses from the following: Marketing 307, 420, 425, 435, 485 Directed Electives* (300- or 400-level)	30 3 3 3 3 3 3 3 3 3 3 3 3 3 30 30 30 30 30 30 30 30 9 9 6 6 9 6 9 6
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300 Humanities (GER) Additional Humanities Course Senior Year Administration & Business 495 Marketing 320, 473, 482 Choose any 3 courses from the following: Marketing 307, 420, 425, 435, 485 Directed Electives* (300- or 400-level) Humanities (GER)	30 3 3 3 3 3 3 3 3 3 3 3 3 3 30 30 30 30 30 30 30 30 9 9 6 6 9 6 9 6
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300 Humanities (GER) Additional Humanities Course Senior Year Administration & Business 495 Marketing 320, 473, 482 Choose any 3 courses from the following: Marketing 307, 420, 425, 435, 485 Directed Electives* (300- or 400-level) Humanities (GER)	30 3 3 3 3 3 3 3 3 3 3 3 3 3 30 30 30 30 30 30 30 30 9 9 6 6 9 6 9 6
Junior Year Arts (GER) Business Communication 305 or English 303 or 336 Computer Information Systems 310 Elective Economics 312 Finance 318 Management 310, 333 Marketing 300 Humanities (GER) Additional Humanities Course Senior Year Administration & Business 495 Marketing 320, 473, 482 Choose any 3 courses from the following: Marketing 307, 420, 425, 435, 485 Directed Electives* (300- or 400-level) Humanities (GER)	$ \begin{array}{r} \overline{30} \\ \overline{3} \\ \overline{30} \\ \overline$

(GER): General Education Requirement (see pg. 14 for full description) *Directed Electives are chosen by the student in consultation with the faculty advisor.

Minor in Marketing for Non-CAB Students: Economics 215; Marketing 300; and 12 hours from 300- and 400-level Marketing courses to complete 18 semester hours.

Minor in Marketing for CAB Students: Marketing 300; and 15 hours from 300- and 400-level Marketing courses to complete 18 semester hours.

Chapter 11 - College of Applied and Natural Sciences

Administration

Interim Dean James D. Liberatos Associate Dean for Graduate Studies & Research William J. Campbell Interim Associate Dean for Undergraduate Studies Ray A. Newbold Department of Agricultural Sciences Gary A. Kennedy, Head School of Biological Sciences David K. Mills, Director School of Forestry John C. Adams, Director Mark A. Gibson, Associate Director Department of Health Information Management Angela C. Kennedy, Head School of Human Ecology Janet F. Pope, Director Division of Nursing Pamela V. Moore, Director

Address

More information about the College of Applied and Natural Sciences can be obtained by writing : College of Applied and Natural Sciences P. O. Box 10197 Louisiana Tech University Ruston, LA 71272 (318) 257-4287 and/or visiting our web site at <u>http://www.ans.latech.edu</u>

Mission

Through excellence in teaching, research, and service, the College of Applied and Natural Sciences prepares students for careers in agriculture, biological sciences, forestry, health care, and human ecology. Graduates are expected to be committed to life-long learning, to environmental awareness, and to improving their profession and community.

Accreditations

• The educational program in Forestry leading to the professional degree of BSF is accredited by the Society of American Foresters (SAF). SAF is recognized by the Council for Higher Education Accreditation as the specialized accrediting body for forestry in the United States.

• The Health Information Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs in cooperation with the Council on Accreditation of the American Health Information Management Association.

• The Health Information Administration program is accredited by the Commission on Accreditation of Allied Health Programs in cooperation with the Council on Accreditation of the American Health Information Management Association

• The School of Human Ecology undergraduate programs are accredited by the Council for Accreditation of the American Association of Family and Consumer Sciences. The Nutrition and Dietetics undergraduate curriculum (DPD) is approved by the Commission on Accreditation/Approval for Dietetic Education of the American Dietetic Association and the Dietetic Internship is accredited. Additionally, the teacher preparation programs are included in the University accreditation by the National Council for the Accreditation of Teacher Education and meet state certification standards. The Early Childhood Education Center is accredited by the National Academy of Early Childhood Programs Division of the National Association for Education of Young Children (NAEYC).

• The Division of Nursing is accredited by the National League for Nursing (NLN) and has continued "full approval" by the Louisiana State Board of Nursing (LSBN).

Undergraduate Degrees Offered

Associate of Science in Health Information Health Information Technology

Associate of Science in Nursing Nursing (2-year RN program)

Bachelor of Arts Merchandising and Consumer Studies

Bachelor of Science

Agricultural Business Animal Science Biology Environmental Science Family and Child Studies Family and Consumer Sciences Education Nutrition and Dietetics Plant Science Wildlife Conservation

Bachelor of Science in Forestry

Bachelor of Science in Health Information Health Information Administration

Bachelor of Science in Medical Technology Medical Technology

These curricula provide well-balanced educational programs based on the professional needs of students. They include instruction in the natural sciences, the humanities, and the social sciences as well as a comprehensive education in one of the specialized fields of the college.

Minors Offered

Students pursuing an undergraduate major in any college may earn a minor in one of the following fields:

- Animal Science
- Biology
- Consumer Studies
- Environmental Science
- Family and Child Studies
- Forestry
- Geographic Information Science
- Gerontology (interdisciplinary)
- Human Nutrition
- Medical Technology
- Merchandising
- Plant Science
- Wildlife Conservation

Specific requirements for each of these minors are identified in the departmental and school sections of the catalog. A student must earn a grade of C or better in each course applied toward meeting the requirements of a minor. This requirement will be applicable to new undergraduate students (freshmen and transfers) whose initial enrollment is Fall Quarter 2003 or quarters thereafter.

Requirements for Admission, Graduation, and Transfer Credit

Students who meet the University admission criteria will be admitted to the College of Applied and Natural Sciences. Specific admissions criteria have been established for some programs. These criteria are identified for specific curricula in the descriptions of those programs. Graduation requirements are the same as those for the University unless noted otherwise.

Candidates for admission to the College of Applied and Natural Sciences who have completed course work at another institution must submit an official record of that credit to Louisiana Tech University. This record will be evaluated by the department conducting the program in which the candidate wishes to major. The evaluation will determine which curricular requirements of the program of study at Louisiana Tech have been satisfied by the student's prior course work. General education requirements are evaluated by the College of Applied and Natural Sciences. A grade of **C** or better is considered acceptable for transfer of credit for required or equivalent courses in the College of Applied and Natural Sciences degree programs.

Advising

Each student in the College of Applied and Natural Sciences is assigned an academic advisor. This advisor assists students in planning, implementing, and completing their programs of study as well as in career planning. Assignments are made to assure that students have advisors who have specialized knowledge in their fields of study. Students have the opportunity to change their advisor, and such changes can be initiated with the appropriate academic unit head.

Special Programs Experiential/Cooperative Education

Students majoring in Agricultural Business, Animal Science, Environmental Science, Family and Child Studies, Forestry, Biology, Plant Science, Merchandising and Consumer Affairs, and Wildlife Conservation may elect to participate in a cooperative education/internship experience one or more terms during their college careers. These students receive relevant work experiences while earning college credit. Some students are paid for their services.

These experiences are designed to develop professional competencies, to impart general and specific skills, to provide opportunities for application of theoretical concepts, and to assist students in the transition from college to employment. The work experience also may provide students an entree for their first job following graduation.

Experiential learning experiences occur beyond the North Louisiana area. Cooperative education and practica work experiences occur in a variety of locations both within and outside Louisiana. Nursing, Health Information Management, and Dietetic students receive clinical instruction in varied health care facilities throughout North and Central Louisiana. Medical Technology students complete clinical experiences in hospitals during their senior year. The Early Childhood Education Center serves as an early childhood demonstration laboratory for Family and Child Studies students. Students may travel to New York and Dallas as part of Merchandising and Consumer Affairs travel study. Agricultural Sciences students have the opportunity to complete cooperative education experiences in agricultural industries and with agribusiness firms located throughout the United States.

All programs require application and acceptance.

Facilities

Academic programs in the College of Applied and Natural Sciences are located in Carson Taylor Hall and George T. Madison Hall on the main campus, as well as Reese Hall and Lomax Hall on the South Campus. In addition, numerous laboratory facilities in other buildings and at other sites enhance the instruction of students. Biological Sciences and Human Ecology are located in Carson Taylor Hall. Also, Biological Sciences has facilities in George T. Madison Hall. Nursing and Health Information Management are located in George T. Madison Hall.

The Center for Children and Families, the only such center in Louisiana approved by the Board of Regents, is operated by the School of Human Ecology. The Center encourages collaborative research, instruction, and service that promote the well-being of children and families. The Family and Child Studies Institute, one component of the Center, sponsors the endowed Bruce Everist Lecture Series. Another component, the Early Childhood Education Center, is a learning laboratory for 3- and 4-year-old children. Family and Child Studies _students observe, student teach, and conduct research at the Center.

Agricultural Sciences and Forestry programs are located on the South Campus. Reese Hall, Lomax Hall and the Forestry Laboratory Building provide classrooms, laboratories and office space. In addition, Lomax Hall houses research and student laboratories, greenhouses, and a display greenhouse for large plant specimens and exotic plantings. The 850 acre South Campus also has a Jersey-Holstein herd and dairy facility which provides milk for the campus; a dairy processing plant which pasteurizes and packages milk, makes cheeses and butter, and produces ice cream; a meats laboratory which trains students in meat processing and marketing; and an equine center. The Louisiana Tech University Farm Salesroom, also located on South Campus, offers products that are produced and/or processed by the Department of Agricultural Sciences, Fluid milk, cheese, ice cream, yogurt, butter, and sour cream are available on a continuing basis. Specialty products include peach icc cream, Christmas eggnog, and gift-boxed, wax-dipped cheddar cheese. The Tech Meats Laboratory sells retail cuts of beef, chicken, and pork through the Salesroom. Other products include seasonal fruits and vegetables, ornamental plants, Christmas poinsettias, and bedding plants. The Salcsroom provides an integrated link in the marketing and sales of food and ornamental plant products.

The Louisiana Tech Equine Center provides facilities and animals for student instruction in all phases of horsemanship such as breeding, training, and nutrition. The Center also provides recreational horseback riding sessions and a therapeutic and handicapped horseback riding program.

Also located on the South Campus are numerous other facilities which support the agriculture and forestry programs: a sawmill, a dry kiln, wood utilization laboratories, a wood working shop, a weather station, a farm machinery shop, barns for livestock, fields, forests, nurseries, research vegetable and flower gardens, a 50-acre arboretum, and ponds.

University-owned forestlands (800 acres) in North Louisiana and West Mississippi are used in the forestry education and research programs.

Scholarships

Scholarships are available in the College of Applied and Natural Sciences. Any student enrolled in the College is eligible to apply for general scholarships. However, a number of scholarships are available only to students in a certain department or major.

Applied And Natural Sciences Scholarships

- The M. Hayne Folk, Jr., Memorial Scholarship
- · Health Science Scholarships
- The Ruston Hospital Endowment
- The Lettie Pate Whitehead Scholarship

Agricultural Sciences Scholarships

- The Benjamin Forbes Leadership Scholarship
- The Block and Bridle Brittain Simms Memorial Scholarship
- The Block and Bridle Richard Hill Memorial Scholarship
- The Block and Bridle Sullivan Memorial Scholarship
- The Don Hinton Dairy Scholarship
- The C. G. Hobgood Memorial Scholarship
- The T. W. Ray Johnson Memorial Scholarships
- The John A. Wright Horticulture Scholarship
- The Todd McAfee Memorial Scholarship
- The Agricultural Endowment Scholarships
- The Bessie Mae Talbert Purdy Scholarships
- The Northeast Flower Society Horticulture Scholarship
- The James Furman & Lavara B. Love Endowed Scholarship
- The John Green Scholarship

Biological Sciences Scholarships

- Premedical/Predental Fund
- · Outstanding Freshman Biological Science Student awards
- Scott M. Weathersby Endowment Award
- Radford B. Allen, Jr. Medical Technology Scholarship

Forestry Scholarships

Application deadline is February 1. Write School of Forestry, Box 10138, Ruston, LA 71272 for applications, or complete online application on College web site.

- E. R. Andrulot Scholarship
- Clyde and Ruby Anthony Endowed Scholarship
- The Lloyd P. Blackwell Scholarship
- Wiri L. and Althea E. Bond Forestry Scholarship
- The Forestry Alumni Association Scholarship
- The Forestry Department Endowed Scholarship
- The Walter Kellogg Forestry Scholarship
- The Louisiana Forestry Foundation Scholarships
- The Louisiana Tech Forestry Alumni Association Scholarship
- The Martin Foundation Scholarship
- The McBride Endowed Scholarship
- E. W. Merritt Scholarship
- The Dan and Dave Metz Memorial Endowed Scholarship
- School of Forestry Freshman Awards
- Seedling and Sapling Club of the Louisiana Forestry Association Scholarship
- Richard M. Sisk Trust Fund Award

Health Information Management Scholarships

• The Eddie Cooksey Scholarship

Human Ecology Scholarships

- Human Ecology Alumni Freshman Scholarships
- The Mary Wilks Chandler Scholarship
- The Clyde and Mildred Mobley and Kola Mobley Fouche Memorial Scholarship
- F. C. and Gladys M. Haley Scholarship
- The Clothielde Tuten Clark Scholarship
- Human Ecology Faculty Scholarships
- Human Ecology Organization Scholarships
- The Rhoda L. Chambless Scholarship
- The Willie Lou Durrett Scholarship
- The Laurie S. and Helen Mobley Scholarship
- The Lois M. Jackson Dietetics Advisory Board Scholarship
- The Whetstone Scholarship
- The Eastman/Auto-Chlor Scholarship
- The Bette Heard Wallace Endowed Scholarship
- The Henry E. and Margaret A. Stamm Endowed Scholarship
- The Merle Burke Endowed Scholarship
- The Willie Fletcher Scholarship
- The Jeanne Mack Gilley Endowed Scholarship
- The E. Lee and Armede Wilks Young Endowed Scholarship
- The Rev. and Mrs. W. R. Gage Endowed Scholarship
- The Dr. Harvye Lewis Endowed Scholarship

Nursing Scholarships

- The Mary Jarrell Nursing Scholarship
- The Mary Marguerite Merritt Scholarship
- The Henry R. Mays, Jr. Scholarship

Student Organizations

A number of organizations provide students opportunities for professional and leadership development, service, and networking with other students, faculty, and professionals. Students who desire more information about these organizations may consult either their advisor or their academic unit head. College organizations include the following:

Agricultural Sciences

- Alpha Zeta
- Block and Bridle
- Future Farmers of America
- Louisiana Tech Horticulture Club
- Pre-Vct Club

Biological Sciences

- Alpha Epsilon Delta
- Chi Lambda Beta

Environmental Science

National Association of Environmental Professionals

Forestry

- Alpha Zeta
- Forestry Club
- Xi Sigma Pi
- Student Chapter, Forest Products Society
- Student Chapter, Society of American Foresters
- Student Chapter, The Wildlife Society

Health Information Management

- Sigma Rho Alpha
 - Zeta Tau

Human Ecology

- Child Life Student Association
- Kappa Omicron Nu (National Honorary)
- Louisiana Tech Student Association of Family and • Consumer Sciences
- Louisiana Tech Student Council for Family Studies
- Louisiana Tech Student Dictetic Association
- Louisiana Tech Student Early Childhood Association
- Merchandising and Consumer Club
- Organization of Human Ecology Students

Nursing

Louisiana Tech University Student Nurses Association

Bachelor Degree Programs

Department of Agricultural Sciences

Mission

The mission of the Department of Agricultural Sciences is

- to
- provide basic knowledge and experiential learning opportunities that will prepare students for challenging careers in the food and fiber system and the agribusiness industry.
- provide students with a comprehensive education in plant and animal production, processing, marketing, and management.
- enhance the economic viability and sustainability of agriculture in the region, state, and nation through research and outreach programs

The Department of Agricultural Sciences offers Bachelor of Science (BS) degrees in Agricultural Business, Animal Science, and Plant Science. A degree in Agricultural Education can be earned while fulfilling the requirements for teacher certification in the College of Education.

The Animal Science curriculum has 6 areas of concentration: Dairy Production, Dairy Processing, Equine, Livestock Production, General Animal Science, and Pre-Veterinary Medicine. The Plant Science curriculum consists of three concentrations: Agronomy, General Plant Science, and Landscape and Turf Management.

Louisiana Core Curriculum for Agriculture Programs

Following is a 2-year core curriculum for agricultural programs throughout the State of Louisiana. All state universities have agreed to accept these courses toward any agricultural degree program upon transfer from one university to another.

Core Agriculture
English (GER)
Mathematics (GER)
Mathematics 101, 112
Computer Literacy (GER)
Agricultural Science 201 or
Computer Information Systems 110
Natural Sciences (GER)
Biological Sciences 130, 131, 132, 133
Chemistry 100, 101, 102, 103, 104
Arts (GER)
Art 290, Music 290, or Speech 290
Humanities (GER)
English 201 or 202, 303
History 201 or 202
Speech 377
Social Sciences (GER)

Economics 215
Psychology, Sociology, or Geography
Animal Science 111
Plant Science 101, 200, 202

Agricultural Business

The Agricultural Business program at Louisiana Tech provides a base of knowledge and training which supports career opportunities in agribusiness and natural resources management. The program is designed to allow the student to have maximum flexibility in fulfilling individual needs, while enhancing employability. The curriculum includes a built-in minor in Business Administration from the College of Administration and Business. Advisor/student selection of appropriate electives will allow specialization in the area of interest. For example, directed electives can be used to earn an additional minor in Geographic Information Science (GIS), which enhances indemand job skills.

Agricultural Business Curriculum (BS)

Freehouse and
Freshman year Animal Science 111
Natural Sciences (GER)
Biological Sciences 130, 131
English (GER)
Humanities (GER)
History Elective
Mathematics (GER)
Plant Science 101
Social Sciences (GER)
31
Sophomore Year
Accounting 201, 202
Agricultural Business 220
Arts (GER)
Computer Literacy (GER)
Humanities (GER)
English 201 or 202
Natural Sciences (GER)
Chemistry 100, 101, 102, 103, 104
Social Sciences (GER)
Economics 215
Directed Elective*
Breeted Elective
32
Junior Year
Junior Year
Junior Year Agricultural Business 310
Junior Year Agricultural Business 310
Junior Year Agricultural Business 310
Junior Year Agricultural Business 310
Junior Year Agricultural Business 310
Junior Year Agricultural Business 310
Junior Year Agricultural Business 310
Junior Year Agricultural Business 310
Junior Year Agricultural Business 310
Junior YearAgricultural Business 310
Junior Year Agricultural Business 310
Junior Year Agricultural Business 310
Junior Year Agricultural Business 310
Junior Year Agricultural Business 310
Junior Year Agricultural Business 310
Junior Year Agricultural Business 310
Junior Year 3 Agricultural Business 310
Junior Year 3 Agricultural Business 310
Junior Year 3 Agricultural Business 310
Junior Year Agricultural Business 310
Junior Year 3 Agricultural Business 310

Total Semester Hours	24
(GER): General Education Requirements (pg. 14)	
*Directed Electives chosen by student in consultation with advisor.	

Social Sciences (GER)

63

Notes:

- A maximum of 6 credit hours of AGSC 477, 478, or 479 (Cooperative Education Work Experience) can be applied toward this curriculum.
- A combined maximum of 6 credit hours of ANSC 425 (Special Problems in Animal Science) and/or PLSC 400 (Special Problems in Plant Science) can be applied toward this curriculum.
- All courses applied toward the built-in minor in Business Administration must be completed with the grade of C or higher.

Requirements for a Minor in Geographic Information Science

Forestry 317 or Geographic Information Science 317; Forestry 324 or Geographic Information Science 324; Forestry 355 or Geographic Information Science 355; Forestry 455 or Geographic Information Science 455; Geography 380 or Geographic Information Science 380; Geography 480 or Geographic Information Science 480;, and one additional Geography course; one quantitative methods course chosen from Agricultural Sciences 320, Quantitative Analysis 233. or Statistics 200, 402, or 405. Total 22 or 23 semester hours.

Agriculture Education

Agriculture Education prepares the student for teaching vocational agriculture in secondary schools. The College of Education manages this program in conjunction with the Department of Agricultural Sciences, with student advising within this department. Students in Agriculture Education must meet the general requirements for admission to teacher education in the College of Education's upper division. Service courses in technical agriculture provide the student training in the areas of plant science, animal science, forestry, soils, farm management, and farm mechanics. An active collegiate chapter of Future Farmers of America provides practical experience in this important leadership activity.

The program is listed under the College of Education – Department of Curriculum, Instruction, and Leadership. Inquiries about this curriculum may be made to either this department or to the College of Education.

Animal Science

Animal Science includes the fields of poultry, swine, dairy, beef, equine, and veterinary science.

Animal Science provides instruction and practical experience in judging, breeding, feeding, and managing livestock. Through course selection the student may prepare for livestock farming, management, business, or graduate study in animal science or veterinary medicine. Selection of directed electives permits special training for work with animal feed companies; milk, egg or poultry operations; food processing industries; managerial or marketing groups; supply and equipment cooperatives; agricultural extension services; public relations; and other organizations associated with animal production or management.

Opportunities are afforded students in Animal Science to obtain practical experiences in beef, dairy, sheep, swine, and equine operation and management through the University herds of registered livestock. An automated milking parlor, dairy barn, beef barn, crop lands, and pastures are utilized for instruction and student training. A meats laboratory for the study of meat cutting, preservation, storage and utilization, and a dairy processing plant equipped for processing fluid milk and manufacturing dairy products provide students opportunities for acquiring scientific and practical experiences in different aspects of processing meat and dairy products. Breaking, training, and breeding services are offered to the equine industry as an integral part of Tech's popular equine program within the Agricultural Sciences Department. Prominent stallions, representing some of the most popular bloodlines in America, are utilized in the breeding program. A nationally affiliated chapter of the Block and Bridle Club and the Pre-Vet Club provide social and educational activities for students pursuing animal science as a profession.

Animal Science Curriculum (BS)

Freshman Year	
Animal Science 111	
Arts (GER)	
English (GER)	6
Mathematics (GER)	
Mathematics 101, 112	6
Natural Sciences (GER)	
Biological Sciences 130, 131, 132, 133	
Plant Science 101	
Social Sciences (GER)	
	32
Sophomore Year	32
Agricultural Business 220.	
Animal Science 201, 202, 204 or 211	
Biological Sciences 214 or 260	4
Computer Literacy (GER)	3
Humanities (GER)	······································
History	1
English 201 or 202	
Speech 110 or 377	יב
Natural Sciences (GER)	
Chemistry 100, 101, 102, 103, 104	8
Directed Electives*	
Directed Electives	······
	32
Junior Year	
Agricultural Business	
Any 300 or 400 level	
Animal Science 301, 309, 405	
Biological Sciences 200 or 310	
Humanities (GER)	
English 303	3
Plant Science 211, 310.	
Directed Electives*	
Senior Year	30
Agricultural Science 411	1
Agricultural Science 320	
Animal Science 315 or 407 or 408 or 410	
Animal Science 318, 401, 409	
Social Science (GER)	
Directed Electives*	
Encolog Electry Co.	
	30
Total Semester Hours	174
(GER): General Education Requirements (pg. 14)	
(OLK). Ocneral Loucation Requirements (pg. 14)	

*Directed Electives chosen by student in consultation with advisor from one of the following concentrations:

Dairy Processing Concentration Directed Electives Animal Science 302, 304, 305, 306 and 430 Biological Sciences 459

Dairy Production Concentration Directed Electives

Animal Science 302, 307 and 418; Animal Science 304 or 305 or 306; Biological Sciences 459 plus 2 additional directed elective hours.

Equine Science Concentration Directed Electives

Animal Science 307, 322, 324, 420, and 440 plus 4 additional directed elective hours.

General Animal Science Concentration Directed Electives Eighteen hours of directed electives

Livestock Production Concentration Directed Electives

Animal Science 204, 307, 315, 410, and 418; plus 6 additional directed elective hours.

Pre-Veterinary Medicine Concentration Directed Electives

Chemistry 250, 251, 252, and 351, Physics 209, 210 plus 3 additional directed elective hours.

Notes:

- A maximum of 6 credit hours of AGSC 477, 478, or 479 (Cooperative Education Work Experience) can be applied toward this curriculum.
- A maximum of 6 credit hours of ANSC 425 (Special Problems in Animal Science) can be applied toward this curriculum.

Requirements for a Minor in Animal Science

Twenty-one hours with a minimum of 9 hours in 300-400 level courses. Courses may be selected from Animal Science 111 plus any combination of other animal science courses.

Applications to Veterinary Medicine Programs

Students in the Pre-Veterinary medicine concentration who have an exceptional grade point average and an acceptable score on the Medical College Admissions Test (MCAT) or Graduate Record Examination (GRE) may wish to apply for admission to veterinary school during their junior year. Such a student may receive a degree in Animal Science from Louisiana Tech University after completing one year of veterinary school if they meet the following criteria: (1) completion of 90 credit hours, (2) completion of the General Education Requirements, (3) completion of the following Agricultural Sciences requirements: Animal Science 111 plus 12 additional hours of 300-400 level courses; Biological Sciences 130, 131, 132, 133, 260; Chemistry 100, 101, 102, 103, 104, 250, 251, 252, and 351. The student must arrange for transfer of credit and follow the procedures applicable for graduation at Louisiana Tech University.

The Pre-Veterinary Medicine concentration at Louisiana Tech University is based on requirements for application to the veterinary program at Louisiana State University in Baton Rouge. Application for admission to the veterinary program at Louisiana State University is made in October for admission in the fall of the following year. The MCAT or GRE score must be provided from the year prior to application for admission. Requirements for admission to professional veterinary programs in other states may vary.

Only residents of Louisiana and Arkansas are normally eligible to apply for admission to the LSU Veterinary School. Residence status is determined by LSU and residence status at Louisiana Tech University has no bearing on such determination.

Plant Science

The Plant Science curriculum culminates in a degree with a concentration in Agronomy, General Plant Science, or Landscape and Turf Management. Each deals with the cultural and applied aspects of plant production.

Students learn about plant science in a variety of laboratory facilities: 5,000 square foot conservatory, approximately 25,000 square feet of glass and aluminum greenhouse space, computer lab, crops lab, pest management lab, soils lab, grafting and propagation lab, 6 additional greenhouses, a vegetable garden, a landscape display garden, an arboretum, turf plots, and agronomy field plots.

The Horticulture Club sponsors the annual Poinsettia Show and participates in an annual educational tour of horticulture in different regions of the United States.

Plant Science Curriculum (BS)

Freshman Year	
English (GER)	6
Mathematics (GER)	6
Natural Sciences (GER)	
Biological Sciences 130, 131,	4
Biological Sciences Directed Elective*	
Chemistry 100, 101, 102, 103, or 120, 121, 122	

Plant Science 101
31
Sophomore Year
Animal Science 111
Computer Literacy (GER)
Humanities (GER)
English 201 or 202
History
Plant Science 310, 311
Social Sciences (GER)
Speech 110 or 377 or English 463
Directed Elective*
Elective 3
Licerve
31
Junior Year
Agricultural Business 220
Agricultural Science 477, 478, or 479
Arts (GER) 3 Biological Sciences 200 as 210
Biological Sciences 200 or 310
Biological Sciences 214 or 260
Biological Sciences Elective
Humanities (GER)
English 303
Plant Science 450
Directed Electives**
31
Senior Year
Agricultural Business Elective
Agricultural Science 411 I
Agricultural Science 320
Directed Electives**
31
Total Semester Hours

(GER): General Education Requirements (pg. 14)

*Biological Sciences 216 & 217 are strongly encouraged

**Directed Electives chosen by student in consultation with advisor from one of the following concentrations (other non-listed courses may be considered with advisor's approval):

Agronomy Concentration Directed Electives

Select 30 hours from the following list: Agricultural Science 477, 478, 479, Plant Science 211, 303, 309, 312, 320, 400, 403, 409, 412, 421, 422, 423.

General Plant Science Concentration Directed Electives Thirty hours of Directed Electives

Landscape and Turf Management Concentration Directed Electives

Select 30 hours from the following list: Agricultural Science 477, 478, 479; Plant Science 284, 300, 301, 302, 303, 312, 320, 384, 400, 403, 412, 420, 421, 422, 423, 440, 441.

Notes:

- A maximum of 6 credit hours of AGSC 477, 478, or 479 (Cooperative Education Work Experience) can be applied toward this curriculum.
- A maximum of 6 credit hours of PLSC 400 can be applied toward this curriculum.

Requirements for a Minor in Plant Science

Twenty-one hours with a minimum of 9 hours in 300-400 level courses. Courses may be selected from Plant Science 101 plus any combination of other Plant Science courses (exception-Plant Science 400).

School of Biological Sciences

The curricula and courses offered by the School of Biological Sciences are designed to prepare students to meet a broad range of career goals. Two undergraduate degrees are offered: Bachelor of Science in Biology and Bachelor of Science in Medical Technology. Each degree program includes general education courses; a group of required courses in biology, chemistry, mathematics, and physics; and electives, selected with approval of the advisor, appropriate to a concentration.

Mission

The mission of the School of Biological Sciences is to promote student and faculty professional growth and development through integration of teaching and research. The School contributes to the biological literacy of all students, advances biological knowledge, and is a resource for the state, region and nation.

Objectives and Career Opportunities

The School of Biological Sciences provides a solid foundation in both the biological sciences and chemistry and is designed to prepare students for a broad range of careers. The BS degree in Biology and the BS degree in Medical Technology allow students to design a medical/science-oriented curriculum that meets their career goals. The Animal Biology, Applied Biology, Cell and Molecular Biology, Microbiology, and Plant Biology concentrations prepare students for postgraduate study or for jobs as research assistants, managers or staff scientists in a wide range of academic and industrial laboratories, state and fcderal agencies, and private industry.

Degree Programs and Concentrations

Two undergraduate degrees are offered: BS in Biology and BS in Medical Technology. The BS in Biology offers areas of concentration in Animal Biology, Applied Biology, Cell and Molecular Biology, Microbiology, and Plant Biology.

Biology

Program Information

Students completing a degree in Biology select a concentration based upon their career goals. Students are urged to consult with advisors in selecting the concentration that is best suited to their post-graduate career. The course work in biology satisfies the course requirements for entrance to most graduate, medical and dental schools, as well as other medical fields if certain electives are taken. Graduates in microbiology are in demand as research assistants in various academic and industrial laboratories.

Occasionally, students are accepted to and enroll in medical, dental, or other professional school before completion of the bachelor's degree. Such a student may make application to receive a BS degree in Biology from Louisiana Tech University after successfully completing one year of professional school provided the following criteria are met: (1) completion of the General Education Requirements, and (2) completion of 90 semester credit hours to include Biological Sciences 130-133, 310, 313; 320 or 335 or 405; Chemistry 100-104 or 107, 108; 250-254; 351, 352; Statistics elective.

The opportunities for graduates in Plant Biology are varied, including employment in state and federal agencies such as agricultural experiment stations and the National Park Service. Graduate work in Plant Biology can lead to teaching and research opportunities. The Applied Biology concentration provides a wide variety of elective choices to prepare students for postgraduate study or for jobs in academic and industrial laboratories, state and federal agencies, and private industry. This concentration is not suitable for students intent on applying to medical or dental schools, but may be "customized" to fulfill requirements for admission to allied health programs.

To graduate with a BS degree in Biology, the student must have a minimum grade point average of 2.0 in all Biological Sciences courses and may not have earned less than a grade of C in a required Biological Sciences course.

Biology Curriculum (BS)

Freshman Year
Natural Sciences (GER)
Biological Sciences 130, 131, 132, 133, 260
English (GER)
Mathematics (GER)
Mathematics (GERV) Mathematics 100 or 101, and 112
Directed Electives*
Directed Electrycs
Sophomore Year
Biological Sciences 199
Humanities (GER)
English 201 or 202
History Elective
Physics 209, 210, 261, 262
Directed Flectives*
29-31
Junior Year
Biological Sciences 310
Humanities (GER)
English 303
Speech 110, 377, or English 463
Social Science (GER)
Statistics
Directed Electives*
Electives
32-33
Senior Year
Arts (GER) 3
Biological Sciences 313, 480 4
Social Science (GER)
Directed Electives*
Electives
28-31

*Directed Electives chosen by student in consultation with advisor from one of the following concentrations:

Animal Biology Concentration Directed Electives

Freshman Year: Chemistry 100, 101, 102, 103, 104 (8) Sophomore Year: Biological Sciences 290, 320, 321 (8); Chemistry 250, 251, 252, 253, 254 (8) Junior Year: Biological Sciences Restricted^a Elective (3); Biological Sciences Elective (3); Chemistry 351, 352, 353, 354 (8) Senior Year: Biological Sciences Restricted^a Elective (6); Biological Sciences Electives (7).

^aTo be selected from BISC 401, 407, 411, 424, 466, 470.

Applied Biology Concentration Directed Electives

NOTE: Does not meet the minimum requirements for admission to medical or dental school.

Freshman Year: Chemistry 100, 101, 102, 103, 104 (8) or Chemistry 120, 103, 121, 122 (8) Sophomore Year: Biological Sciences Anatomy Elective (4); Biological Sciences 315, 320, and 335 or 405 (6); Biological Sciences Electives (6). Junior Year: Biological Sciences Electives (9); Science Electives (6). Senior Year: Science Electives (12)

Cell and Molecular Biology Concentration Directed Electives

Freshman Year: Chemistry 100, 101, 102, 103, 104 (8) Sophomore Year: Biological Sciences 315, 320 or 335 or 405 (6); Chemistry 250, 251, 252, 253, 254 (8) Junior Year: Biological Sciences Restricted^b Electives (6); Chemistry 351, 352, 353, 354 (8). Senior Year: Biological Sciences 422 (3); Biological Sciences Restricted^b Electives (6); Biological Sciences Electives (6)

^bTo be selected from BISC 321, 402, 404, 407, 408, 409, 411, 470, 487, 490, 491, 492.

Microbiology Concentration Directed Electives

Freshman Year: Chemistry 100, 101, 102, 103, 104 (8) Sophomore Year: Biological Sciences 335 (3); Biological Sciences Restricted^e Elective (3); Chemistry 250, 251, 252, 253, 254 (8) Junior Year: Biological Sciences Restricted^e Electives (6); Chemistry 351, 352, 353, 354 (8) Senior Year: Biological Sciences 408, 422 (6); Biological Sciences Restricted^e Elective (3); Biological Sciences Electives (6)

^oTo be selected from BISC 315, 401, 402, 409, 421, 424, 444, 454, 459, 487, 490, 491, 492.

Plant Biology Concentration Directed Electives

Freshman Year: Chemistry 100, 101, 102, 103, 104 (8) Sophomore Year: Biological Sciences 221, 222 (6); Chemistry 250, 251, 252, 253, 254 (8) Junior Year: Biological Sciences Elective (6); Chemistry 351, 352, 353, 354 (8) Senior Year: Biological Sciences 216, 217, 405 or 412, 419 (10); Biological Science Electives (5)

Requirements for a Minor in Biology

Twenty-one hours of Biological Sciences (BISC) courses with a minimum of 9 hours in 300-400 level courses. Course selection must include Biological Sciences 130, 131, 132, 133, 310, 313, plus a physiology course (Biological Sciences 320 and 321, or 335, or 405).

Medical Technology (Clinical Laboratory Science)

Program Information

Medical technologists (clinical laboratory scientists) are clinical specialists who design, perform, evaluate, and supervise biological, chemical, and other clinically related tests. Job opportunities for these specialists exist in hospitals, clinics, research facilities, government agencies, educational institutions, and industries.

Graduates of the program in Medical Technology are required to complete 125 senester hours of specified course work, which includes I calendar year (40 semester hours) of professional course work in an accredited medical center program affiliated with Louisiana Tech University. These programs are located in metropolitan areas throughout the region and provide "hands on" training. Affiliated medical center programs are located at Lake Charles Memorial Medical Center, Lake Charles, LA; Our Lady of the Lake Medical Center, Baton Rouge, LA; Rapides General Hospital, Alexandria, LA; St. Elizabeth Hospital, Beaumont, TX; St. Francis Medical Center, Monroe, LA; Veterans Administration Medical Center, Shreveport, LA; Wadley Regional Medical Center, Texarkana, TX, Baptist Health System, Little Rock, AR, and Comanche County Memorial Hospital, Lawton, OK.

During the third quarter of the sophomore year, students are counseled as to their progress toward meeting the minimum academic requirements for admission to the professional education component. This evaluation is based on the student's progress in completing all required pre-professional courses, a minimum cumulative grade point average of 2.7, no grade less than C in a subject area, and the recommendation of the program faculty.

Students who meet the criteria listed above are allowed to complete the formal application process to professional training sites. Applications should be completed by the end of the third quarter of the sophomore year. Applicants are admitted to the professional programs on a competitive basis by using both academic and non-academic criteria. Admission decisions are made by the Admissions Committee at each site. Applicants are informed of the decision of the Admissions Committee by the first quarter of the junior year. Students who are not selected for admission are counseled as to their deficiencies and of appropriate remedial action or alternative career opportunities.

Students who are accepted into the professional program enroll in courses chosen by the student and the Program Coordinator. On-campus registration for these students is coordinated with campus faculty with appropriate fees paid by the student at the time of registration. The student must comply with all University policies and the policies of the clinical affiliate. These policies are stated in the bulletin or the program brochure of each clinical site. Students must maintain a grade of C or better in all clinical courses. Students who fail to follow these policies are the responsibility of the student. University financial aid (loans, grants, scholarships) is available to students during clinical training.

After completion of professional education, the student is awarded the BS degree and is eligible for professional certification, which is achieved by passing a nationally recognized registry examination.

Medical Technology Curriculum (BS)

Freshman Year Natural Sciences (GER) Mathematics (GER) Social Sciences (GER) 30 Sophomore Year Biological Sciences 246, 260.....7 Humanities (GER) Mathematics (GER) English 303...... 3 28 Junior Year Clinical Laboratory Science 457......2 Humanities (GER) 27 Senior Year Directed Electives** 40 40 (GER): General Education Requirements (pg. 14)

* The student may elect to take CHEM 250, 251, 252, 253, 254 in lieu of CHEM 121.

**The student and Program Coordinator will choose courses from Clinical Laboratory Science 460-489.

Requirements for a Minor in Medical Technology

Twenty-one hours of course work chosen from Biological Sciences 245, 250, 260, 341, 402, 445, 446, 447, and Clinical Laboratory Sciences 450, 457.

Pre-Professional Course Work

In addition to the 2 degrees offered above, Louisiana Tech University can prepare you for entry to professional programs offered at other institutions.

NOTE: Please be aware that the pre-professional course work necessary for admission to these programs is specified by the admitting institution, NOT Louisiana Tech. Therefore, it is the responsibility of each student to obtain a catalog, or printout of the web site, from the school where he or she plans to attend and determine which courses are required. The student can then "customize" his/her course work in consultation with an advisor from the School of Biological Sciences to fulfill the requirements of a particular institution.

Examples of such programs are as follows:

- Pre-Cardiopulmonary Science
- Pre-Occupational Therapy
- Pre-Optometry
- Pre-Pharmacy
- Pre-Physician Assistant
- Pre-Physical Therapy
- Pre-Radiologic Technology

Admission to professional phases of these programs is on a competitive basis. Furthermore, it should be noted that although some programs will consider students after 2 years of course work at Louisiana Tech, in reality many students are admitted only after completion of a baccalaureate degree. If there is any question about this, it is the student's responsibility to contact the admitting professional program for clarification.

REMEMBER: It is the student's responsibility to determine what is required for admission to the particular institution in which he/she is interested.

The Graduate Program

Master of Science Degrees offered by the School of Biology are described in the graduate section of the University Catalog.

Interdisciplinary Degree in Environmental Science

Program Information

The Environmental Science program consists of a multidisciplinary curriculum emphasizing pure and applied sciences, and the application of critical thinking to environmental problems. Participating academic units include Agricultural Sciences, Biological Sciences, Chemical Engineering, Forestry, and Geosciences. The curriculum incorporates 22 hours of directed electives to allow students to obtain a minor in an area of particular career interest. Numerous minors are available at Louisiana Tech University; specific requirements for minors are identified in the departmental sections of this Catalog.

A junior or senior internship or cooperative education experience is a requirement of the curriculum because it contributes to the preparation of students for a career in environmental science; thus graduates are ready for a wide range of employment opportunities. Potential employers are regulatory agencies, industrial firms, commercial laboratories, eonsulting firms, and environmental organizations. Also, graduates may pursue enrollment in professional or graduate schools.

Environmental Science Curriculum (BS)
Freshman Year
Environmental Science 211
Natural Sciences (GER)
Biological Sciences 130, 131, 132, 133
Chemistry 100, 101, 102, 103, 104
English (GER)
Mathematics (GER)
Mathematics 100 or 101, and 112
piddiginatios too or for, and file
31
Sophomore Year
Biological Sciences 216, 217
Chemistry 121, 205
Humanities (GER) English 3033
English (Literature)
Arts (GER)
Geology 111, 121
Social Sciences (GER)
Geography
Mathematics 220
Directed Electives*
33
Junior Year
Environmental Sciences 313
Biological Sciences 260
Geographic Information Science 255, 355
Environmental Sciences 477/478/479 (recommended) or
Special Problems
Environmental Science 310, 311
Humanities
English 463 or Speech 110, 377
English 463 of Speech 110, 377
Statistics
Directed Electives*
-31
Senior Year
Environmental Science 400, 444, 458
Humanities (GER)
History
Social Sciences (GER)

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(GER): General Education Requirements (pg. 14) *Students are expected to obtain a minor in an area of their choice; if students choose not to seek a minor, directed electives are selected from the following: Animal Science, Biology, Chemical Engineering, Chemistry, Environmental Science, Forestry, Geography, Geology, Physics, and Plant Science.

Students are required to complete individual professional courses (Biology, Chemistry, Environmental Science, Geology, Statistics, and Directed Electives) with a minimum grade of C.

Requirements for a Minor in Environmental Science

Twenty-one hours course work to include Geology 111, Environmental Science 200, 310, 313, 417, 458, and 3 hours of Biological Sciences, Chemistry, Environmental Science, Forestry, Geology, or Plant Science at the 300 level or above.

School of Forestry

Mission:

The mission of the School of Forestry is "To enhance the social, ecological, and economic value of forest resources for the citizens of Louisiana and the nation through professional education, basic and applied research, and service to the public and natural resource managers."

The specific goals are to:

- 1. maintain an accredited undergraduate forestry education program,
- maintain an undergraduate wildlife conservation education program, that meets certification requirements of The Wildlife Society,
- 3. conduct research relevant to enhancing Louisiana's forestlands and associated natural resources, and
- 4. conduct continuing education and service activities to meet the needs of Louisiana's forest landowners.

Degree Programs

The School of Forestry offers two degree programs. One leads to a Bachelor of Science in Forestry (BSF) and the other to a Bachelor of Science in Wildlife Conservation (BS). The Forestry curriculum is designed for students who desire scientific knowledge of conservation and management of forestry resources, such as timber inventory, site productivity, resource protection, and many other activities carried out in the production of wood and wood fiber. The Wildlife Conservation curriculum is designed for students who desire scientific knowledge of the conservation and management of wildlife. This curriculum emphasizes the life history, habitat relationships, and habitat management of wildlife species and communities. Students are trained as managers, naturalists, and researchers through course work and practical experience with wildlife professionals.

Students are encouraged to complete at least 1 internship (on-the-job experience) during their course of study. The Forestry curriculum requires that students complete individual professional courses (Forestry prefix) with a minimum grade of C and maintain a minimum grade point average of 2.0 on all courses taken. The Wildlife Conservation curriculum requires that students complete individual professional courses (Forestry and Biological Sciences prefixes) with a minimum grade of Cand maintain a minimum grade point average of 2.0 on all courses taken.

The educational program in Forestry leading to the professional degree of BSF is accredited by the Society of American Foresters (SAF). SAF is recognized by the Council for Higher Education Accreditation as the specialized accrediting body for forestry in the United States. Graduating seniors are expected to pass the Registered Foresters Exam offered by The Mississippi Board of Registration for Foresters or similar competency exam. The Wildlife Conservation degree program meets the certification requirements of The Wildlife Society, and graduates may apply for certification as an Associate Wildlife Biologist.

Field Session

Successful completion of the Forestry Summer Field Session during the junior year is a prerequisite for senior standing. Students who have completed all prerequisites, including all 100 level courses, FOR 205, 206, 300, 301 (or BISC 313), 302, 306, 317, MATH 212, and have at least an overall C average are eligible to enroll. Field Session students are also required to meet the conditions as outlined in the *Forestry Summer Field Session Academic and Operating Policies* document which is available from the School of Forestry upon request.

Field Trips

During the junior and senior years, field trips are made to forest production areas, wood-using plants, and wildlife management areas. These enable students to observe forestry, wildlife management, research, and wood-using activities of private companies and government agencies. Many of the important forest types and management activities, as well as a wide variety of wood-using industries, are located near campus.

Expenses

Field trips cannot always be arranged within the scheduled laboratory hours. In some cases, students must leave the campus earlier and return later than the published class schedule. The payment for meals and lodging when overnight trips are necessary are the responsibility of the individual student. This includes the field session. In addition to regular expenses, a special fee is charged each student who attends the field sessions.

Each student registering for any forestry or biological sciences course involving field laboratory work should have, for self-protection, an accident insurance policy. Policies are available during registration to all students for a reasonable cost.

A number of student assistants are employed by the School each year. This enables the students to work part-time while attending school.

Transfer Credit

Students may complete 62 semester hours of the forestry or the wildlife conservation major at regionally accredited institutions. However, transfer credit will only be accepted for courses completed with a C or better grade and must be approved during the student's first quarter at Tech.

The professional core courses in forestry and wildlife conservation must be completed at Louisiana Tech University.

Students who are considering transfer to the School of Forestry should contact the Director's Office, School of Forestry, prior to enrollment at other institutions.

Forestry Curriculum (BSF)

Freshman Year
Natural Sciences (GER)
Biological Sciences 134
Social Sciences (GER)
Economics 201, 202, or 215
Additional Social Sciences course
English (GER)
Arts (GER)
Forestry 101
Mathematics (GER)
Mathematics (0210) Mathematics 100 or 101, and 212
Elective
Sophomore Year
Natural Sciences (GER)
Chemistry 120, 121, 122 or
Chemistry 100, 101, 102, 103
Humanities (GER)
English 201 or 202
History
Forestry 202, 205, 206, 312, 313
Social Science (GER)
Statistics Elective *
29
Junior Year
Humanitics (GER)
English 303
Forestry 300, 301**, 302, 306, 310, 314, 315, 317, 318, 319, 320,
324
Sec. 12.
Senior Year
Forestry 322, 355, 401, 402, 404, 406, 410, 413, 425
Humanities (GER)
Speech 110 or 377, or English 463

lectives	. 5
	34
otal Semester Hours	25
GER): General Education Requirements (pg. 14)	
Statistics Elective: AGSC 320, QA 233, PSYC 300, or STAT 200	

**Students are strongly encouraged to take Forestry 301; however, students may elect Biological Sciences 313 if their career goals dictate.

Wildlife Conservation Curriculum (BS)

Freshman Ycar

Natural Sciences (GER)
Biological Sciences 130, 131, 132, 1338
Chemistry 120, 121, 122 or
Chemistry 100, 101, 102, 1037
English (GER)
Forestry 101 1
Mathematics (GER)
Mathematics 100 or 101, and 2126
Social Sciences (GER)

	31
Sophomore Year	
Biological Sciences 200 or 310	
Forestry 205, 206	
Humanities (GER)	
English 201 or 202	
History	
Speech 110 or 377	
Social Sciences (GER)	
Arts (GER)	
Statistics Elective	

Junior Year	
Biological Sciences 221, 313*, 317, 458	12
Forestry 300, 302, 306, 310, 314, 315, 317, 320, 324	24

Senior Year	
Biological Sciences 413 or 428, and 432, 433	9
Animal Science 309	3
Forestry 355, 401, 410, 445	12
Humanities (GER)	
English 303.	
Elective**	4
	31

*Students are strongly encouraged to take Biological Sciences 313; however, students may elect Forestry 301 if their career goals dictate. **Students are strongly encouraged to use elective credits to complete an experiential education opportunity and Forestry 455, Intermediate Geographic Information Systems.

Requirements for a Minor in Forestry

Twenty-two or 23 hours to include Forestry 202, 205; Forestry 301 or Biological Sciences 313; Forestry 302, 306, 312 or 313, 355 or 404, and 406.

Requirements for a Minor in Geographic Information Science:

Twenty-two or 23 hours to include Forestry 317 or Geographic Information Science 317; Forestry 324 or Geographic Information Science 324; Forestry 355 or Geographic Information Science 355; Forestry 455 or Geographic Information Science 455; Geography 380 or Geographic Information Science 380; Geography 480 or Geographic Information Science 480; and one additional Geography course; one quantitative methods course chosen from Agricultural Sciences 320, Quantitative Analysis 233. or Statistics 200, 402, or 405.

Requirements for a Minor in Wildlife Conservation

Twenty-one hours to include Biological Sciences 317, 432, 433; Forestry 314; Biological Sciences 313 or Forestry 301; Biological Sciences 221 or Forestry 205, 206; 3 semester hours to be scleeted from the following: Biological Sciences 401; Biological Sciences 428 or Forestry 428; Animal Science 309; Forestry 355, 445.

Department of Health Information Management

Health Information Management professionals collect, integrate, and analyze primary and secondary health care data, disseminate information, and manage information resources related to the research, planning, provision, and evaluation of health care services.

High school students planning to enter a Health Information Management program should take the general college preparatory courses and be computer literate.

Applicants for readmission and transfer students must meet program criteria at the time of admission to the program. If application for readmission occurs more than three quarters since the student was enrolled in a Health Information Management (HIM) course, a committee of Health Information Management faculty will determine placement in the curriculum and any remedial course work necessary. Transfer credit from another accredited health information management program in a regionally accredited college will be evaluated to determine similarity of course content. Courses with the same content in which the student earned at least a C can be transferred. Credit from a non-accredited program will be granted provided the course is the same in content, the student earned at least a C in the course, and mastery of course material is validated by examination. The Health Occupations Basic Entrance Test (HOBET) is required prior to registering in HIM 107.

Students are required to adhere to stated prerequisite courses. A request for a waiver of a stated prerequisite course must be submitted to the student's advisor who will make a recommendation to a committee of HIM faculty. The committee will consider overall GPA, HIM GPA, and prior work experience in their decision.

The Health Information Management programs include a professional practice component in which the student performs medical record procedures in hospitals and other health care facilities. To be eligible to register for the professional practice, the student must earn a minimum grade of C in prerequisite courses, achieve a minimum GPA of 2.25 in the curriculum, and have the approval of the committee of HIM faculty. In addition to regular University fees, students beginning directed practice must provide name pins and their own transportation. The quarter preceding graduation is spent at off-campus affiliated sites where the student will gain experience in a variety of health care organizations. The course number in which the student enrolls will be determined by the geographic location of the clinical sites from Louisiana Tech University: 100 miles, 101-200 miles, and over 200 miles. These experiences may be clustered in the North Louisiana area. There are additional sites in other cities in Louisiana, Texas, Mississippi, Arkansas, and other states for students who are able to spend a period of time in another area. Each student's professional practice experience is individually planned with the student to fulfill the educational requirements within the student's financial and travel limitations. These professional practice experiences will be scheduled for students who have

- 1. completed all course work on-campus
- 2. have no grades in required courses in the curriculum less than a C,
- 3. have a curriculum GPA of no less than 2.25,

4. and have an overall GPA of no less than 2.0.

A student's professional practice experience will be terminated for inappropriate professional behavior and lack of adherence to ethical standards. The student who terminates a professional practice experience without permission from the HIM professional practice coordinator and the professional practice site will not be scheduled for further professional practice experiences.

If a student wishes to enroll in a professional practice course after a lapse of more than three quarters since completion of the prerequisite courses, a committee of HIM faculty will determine whether remedial course work is necessary before placing the student in professional practice.

Louisiana Tech offers Health Information Technology graduates the opportunity to progress towards the four year degree. This is done by attending compressed video classes and participating in internet classes. Students are required to have an associate degree in HIT and possess RHIT credentials obtained within the last three years. Progression students must complete all junior and senior classes. A minimum of 2.0 grade point average and 122 semester hours are required to receive the BS in Health Information Administration.

Students must earn a C in all required courses before being eligible for graduation from the program. A HIM student may repeat only 1 HIM course, elective or required. The student will be permanently suspended from the HIM programs following the second HIM course grade below a C.

Students seeking information concerning admission to the Health Information Management programs may contact the Health Information Management Department, P.O. Box 3171, Louisiana Tech University, Ruston, LA 71272.

Health Information Technology

The associate degree curriculum emphasizes the technical component of providing a variety of health information services.

The Health Information Technology (HIT) program requires 6 quarters of study on campus plus 1 quarter off campus at professional practice sites.

Students must complete certain courses in a specified sequence in order to complete their studies within the 2 year time frame. Therefore it is very important that first-year students develop a plan of study with their assigned advisor. This plan of study will be placed on file in the Department of Health Information Management office before or during registration for the Winter Quarter. Failure to develop a curriculum plan with the advisor and to follow the plan could prolong the course of study.

The program is accredited by the Commission on Accreditation of Allied Health Education Programs in cooperation with the Council on Accreditation of the American Health Information Management Association. Graduates of the program are eligible to apply to write the accreditation examination of the American Health Information Management Association. Graduates who pass this examination may use the credential, RHIT, Registered Health Information Technician. The two-year program leads to the Associate of Science degree.

Health Information Technology Curriculum (AS)

Freshman Year	
Biological Sciences 225, 227	6
English (GER)	
English 101	
Health Information Management 103, 107, 108, 115, 226, 240	15
Humanities (GER)	
Speech 110 or 377	3
Mathematics (GER)	
Mathematics 100 or 101	3
Statistics 200	3

	55
Sophomore Year	
Arts (GER)	3
English (GER)	
English 102	3
Health Information Management 120, 207, 208, 217, 218, 219,	
224, 229, 234, 235, 241, 277/278/279, 280	
Social Science (GER)	3
	39
Social Science (GER)	

2.2

Health Information Administration

The baccalaureate degree curriculum emphasizes the development of skills for the management of health-related information and the systems used to collect, store, retrieve, disseminate, and communicate information for the support of enterprise operations and clinical and business decision making in health care or related organizations.

The Health Information Administration (HIA) program requires 12 quarters of study on-campus plus 1 quarter offcampus at professional practice sites.

The Health Information Administration program received the Louisiana State Board of Regents' Commendation of Excellence, the highest recognition awarded to an academic program by this group.

The program is accredited by the Commission on Accreditation of Allied Health Programs in cooperation with the Council on Accreditation of the American Health Information Management Association. Graduates of the program are eligible to apply to write the registration examination of the American Health Information Management Association. Graduates who pass this examination may use the credential, RHIA, Registered Health Information Administrator. This program leads to the Bachelor of Science Degree.

Health Information Administration Curriculum (BS) Freshman Year

Presikitali i cai
Natural Sciences (GER)
Biological Sciences 225, 227
English (GER)
English 101, 102
Health Information Management 103, 107, 108, 115, 120, 128
Mathematics (GER)
Mathematics 100 or 101, and 125
32
Sophomore Year
Health Information Management 207, 208, 217, 218, 219, 224,
226, 234, 241, 280, 333
Natural Sciences (GER)
Chemistry 120
Social Sciences (GER)
Psychology 102
30
Junior Year
Humanities (GER)
English 201, 202
Speech 110 or 377
Health Information Management 312, 318, 319, 330
Management 310
Social Sciences (GER)
Sociology 201
An additional Social Sciences course
28
Senior Year
Arts (GER)
Clinical Laboratory Science 450

Health Information Management 417, 418, 425, 430, 431, 477/478/479	
Humanities (GER) History	
Management 470	
	30
Total Semester Hours (GER): General Education Requirements (pg. 14)	120

School of Human Ecology

Mission

Through excellence in teaching, research, and service, the School of Human Ecology prepares students to meet the evolving needs of individuals, families, consumers and communities. Consistent with the University and College, this mission is implemented through instruction, research, and service which involves:

- Implementing undergraduate and graduate curricula that reflect current trends from the rapidly changing and complex professional environments, that expand students' knowledge of the field, stimulate intellectual curiosity, cultivate original thought and expression, and enhance problem-solving skills.
- Contributing to current knowledge through research in the areas of family and child studies, merchandising and consumer affairs, and nutrition and dietetics.
- Providing professional expertise to other professionals, the university community and the community-at-large.

Programs

The School of Human Ecology offers 4 undergraduate degree programs (Family and Child Studies, BS; Family and Consumer Sciences Education, BS; Merchandising and Consumer Studies, BA; Nutrition and Dietetics, BS), a post-baccalaureate dietetic internship, and 2 graduate programs (Family and Consumer Sciences, MS; Nutrition and Dietetics, MS). In addition, the School of Human Ecology collaborates with the College of Education to offer the Early Childhood Education (PK:3) undergraduate degree program.

Undergraduate programs in the School of Human Ecology are accredited by the Council for Accreditation of the American Association of Family and Consumer Sciences. The nutrition and dietetics undergraduate program is approved by the Commission on Accreditation/Approval for Dietetic Education of the American Dietetic Association, and the post-baccalaureate dietetic internship is accredited. The Family and Consumer Sciences Education program, which satisfies state teacher certification standards is included in the University accreditation by the National Council for the Accreditation of Teacher Education. The Early Childhood Education Center is accredited by the National Academy of Early Childhood Programs. In addition, the Family Science concentration in the Family and Child Studies program has been certified by the National Council on Family Relations.

Family and Child Studies

Career Opportunities

Students completing the BS degree in Family and Child Studies will choose one or more of three concentrations: Applied Child Development, Child Life, or Family Science. All concentrations provide students with a broad background in child development and guidance, family dynamics, coping strategies, and interpersonal skills. Each concentration includes theory-based courses, application-based courses, and experiential education courses.

The Applied Child Development concentration prepares students to work with children of all ages in a variety of settings. Graduates may find employment in social agencies, child carc settings, and related programs. The Applied Child Development concentration is not a teacher certification program.

The Child Life concentration prepares students to become child life specialists. After completing the BS degree in Family and Child Studies, graduates complete an internship and pass a national certification examination to become certified child life specialists. Child life specialists work primarily in the hospital setting, although some graduates have obtained jobs working with children in social and community agencies, bereavement programs, and corporate child care.

The Family Science concentration prepares students for a variety of human services positions, including community support services; counseling and youth agencies; law or public policy; and employee assistance programs. Approximately half of the students completing this concentration enter graduate programs in social work, marriage and family therapy, Christian education, and others.

Program Information

Students in the Family and Child Studies program are eligible to apply for upper division after they have completed at least 30 semester hours, including 6 hours of English composition, 6 hours of mathematics, and 6 hours of Family and Child Studies courses; have at least a 2.2 GPA; earned a C or better in English 101 and 102, Mathematics 101, and all Family and Child Studies courses taken at Louisiana Tech University. Students are required to be admitted to upper division before enrolling in 300 and 400 level Family and Child Studies courses. A C or better in all Family and Child Studies courses also is required in order to mcct graduation requirements.

Family and Child Studies Curriculum (BS) Freshman Year

r testiman i ça	
English (GER)	6
Family and Child Studies 201 and 210	6
Humanities (GER)	
History	
Speech 110 or 377	
Mathematics (GER)	
Mathematics 100 or 101	
Mathematics 125 or Statistics 200	3
Merchandising and Consumer Studies 246	٦
Natural Sciences (GER)	
Biological Science	3
	<i>-</i>
	30
Sophomore Year	20
Humanities (GER)	
English 201 or 202	3
English 303 or 332	
Human Ecology Practica	
Merchandising and Consumer Studies 256	
Natural Science (GER)	
Physical Science	3
Physical or Biological Science	ע ר
Social Sciences (GER)	
Psychology	2
Sociology	כ ר
Directed Electives*	د ۵ ۹
	30-31
Junior Year	50-51
Arts (GER)	3
Family and Child Studies 320.	ر ج
Human Ecology 398	
Human Ecology Practica	······································
Restricted Electives	ے ک ب

	28-30
Senior Year	
Elective	
Family and Child Studies Elective	
Family and Child Studies 395, 410	6
Human Ecology 457	1
Human Ecology Practica	3
Social Science (GER)	
Psychology or Sociology elective	
Directed Electives*	12
	31
	31

* Directed Electives are those chosen by student, in consultation with advisor, from one of the following concentrations:

Applied Child Development Concentration Directed Electives

Sophomore Year: (8 hours) Family and Child Studies 100, 200; Food and Nutrition 223. Junior Year: (13 hours) Family and Child Studies 277, 301, 331, 341, 361. Senior Year: (12 hours) Family and Child Studies 400, 432, 451; Family and Child Studies Elective (3).

Child Life Concentration Directed Electives

Sophomore Year: (9 hours) Family and Child Studies 280, 291; Health Information Management 103. Junior Year: (14 hours) Family and Child Studies 301, 331, 341, 355, 361. Senior Year: (12 hours) Family and Child Studies 380, 432, 451; Family and Child Studies Elective (3).

Family Science Concentration Directed Electives

Sophomore Year: (9 hours) Family and Child Studies 100, 101, 200. Junior Year: (15 hours) Family and Child Studies 301 or 331 or 341; Family and Child Studies 355, 435, 471; Family and Child Studies Elective (3). Senior Year: (12 hours) Family and Child Studies 400, 420, 447; Family and Child Studies Elective (3).

Requirements for a Minor in Family and Child Studies

Required courses include Family and Child Studies 201 and 210. An additional 15 hours should be selected from the following: Family and Child Studies 100, 200, 277, 301, 320, 331, 400, 410, 420, 432, 435, 447, 451, or 471. At least 12 hours should be 300 level or above.

Family and Consumer Sciences Education

Career Opportunities

Family and Consumer Sciences Education is a teacher certification program. Graduates are prepared to teach vocational family and consumer sciences in Louisiana secondary schools.

Program Information

Upper division requirements for the Family and Consumer Sciences Education program are established by the Louisiana Tech University Teacher Education Council. Students applying for upper division must have earned 46 semester hours by the end of the quarter the application is made. They must have an earned grade point average of 2.5 and a minimum cumulative grade point average of 2.2. Students must have completed University Seminar 100, Speech 110 or 377, Education Curriculum and Instruction 310, English 101 and 102 and 201 or 202, Social Studies (9 hours), and Mathematics (6 hours). A grade of C or better is required in English 101 and 102, Speech 110 or 377, Education Curriculum and Instruction 125, and Merchandising and Consumer Studies 246. At the point of application, students must have a minimum C average in science, math and social studies. Applicants must have passed the first section of the PRAXIS Exam. They must have had their speech and hearing rated "satisfactory" by the Louisiana Tech University Department of Speech. Applicants must possess those physical, emotional, and mental traits needed for

successful performance in a regular classroom and must not be on University academic or disciplinary probation or suspension. Any student seeking admission to upper division who has been convicted of a felony may be denied admission. Applications should be turned in to the advisor at least one week prior to the beginning of the quarter.

Students in the Family and Consumer Sciences Education baccalaureate program are required to carn a C or better on all human ecology and professional education courses. Students are required to apply for student teaching. A grade point average of 2.5 is required for enrollment in student teaching. Students are required to successfully complete the PRAXIS-PLT and the PRAXIS specialty exam prior to student teaching.

Family and Consumer Sciences Education - Grades 7-12 Curriculum (BS)

Freshman Year
Education Curriculum & Instruction 125
English (GER)
Family & Child Studies 201
Human Ecology 267A I
Humanities (GER)
History 201 or 202
Speech 110 or 377
Mathematics (GER)
Mathematics 100 or 101, and 125
Merchandising and Consumer Studies 246
Natural Sciences (GER)
Biological Sciences 101 or 130
Biological Sciences 101 of 130
29
Sophomore Year
Education Curriculum & Instruction 310
Humanities (GER)
English 201 or 202
English 303
Food & Nutrition 232
Merchandising & Consumer Studies 256
Natural Science (GER)
Biological Science 102 or 132
Geology 111 or Physics 205
Social Science (GER)
Political Science 201
Psychology 207
Psychology 207
Sociology 201
Sociology 201 3 Junior Year 30 Arts (GER) 3 Education Curriculum & Instruction 434, 435, 471 9 Family & Child Studies 200 3 Food & Nutrition 220 3 Human Ecology 398 1 Merchandising & Consumer Studies 219,366, 426 9
Sociology 201
Sociology 201 3 Junior Year 30 Arts (GER) 3 Education Curriculum & Instruction 434, 435, 471 9 Family & Child Studies 200 3 Food & Nutrition 220 3 Human Ecology 398 1 Merchandising & Consumer Studies 219,366, 426 9 Restricted Electives * 6
Sociology 201
Sociology 201
Sociology 201 3 30 Junior Year Arts (GER) 3 Education Curriculum & Instruction 434, 435, 471 9 Family & Child Studies 200 3 Food & Nutrition 220 3 Human Ecology 398 1 Merchandising & Consumer Studies 219,366, 426 9 Restricted Electives * 6 34 Senior Year Education Curriculum & Instruction 403,416, 473 15
Sociology 201 3 Junior Year 30 Arts (GER) 3 Education Curriculum & Instruction 434, 435, 471 9 Family & Child Studies 200 3 Food & Nutrition 220 3 Human Ecology 398 1 Merchandising & Consumer Studies 219,366, 426 9 Restricted Electives * 6 34 Senior Year Education Curriculum & Instruction 403,416, 473 15 Education Curriculum & Instruction 480 or
Sociology 201 3 Junior Year 30 Arts (GER) 3 Education Curriculum & Instruction 434, 435, 471 9 Family & Child Studies 200 3 Food & Nutrition 220 3 Human Ecology 398 1 Merchandising & Consumer Studies 219,366, 426 9 Restricted Electives * 6 34 Senior Year Education Curriculum & Instruction 403,416, 473 15 Education Curriculum & Instruction 480 or 3 Secondary Focus Electives 3
Sociology 201 3 Junior Year 30 Arts (GER) 3 Education Curriculum & Instruction 434, 435, 471 9 Family & Child Studies 200 3 Food & Nutrition 220 3 Human Ecology 398 1 Merchandising & Consumer Studies 219,366, 426 9 Restricted Electives * 6 34 Senior Year Education Curriculum & Instruction 403,416, 473 15 Education Curriculum & Instruction 480 or 3 Secondary Focus Electives 3
Sociology 201 3 Junior Year 30 Arts (GER) 3 Education Curriculum & Instruction 434, 435, 471 9 Family & Child Studies 200 3 Food & Nutrition 220 3 Human Ecology 398 1 Merchandising & Consumer Studies 219,366, 426 9 Restricted Electives * 6 Senior Year 34 Education Curriculum & Instruction 403,416, 473 15 Education Curriculum & Instruction 480 or 3 Family & Child Studies 410 3
Sociology 201 3 Junior Year 30 Arts (GER) 3 Education Curriculum & Instruction 434, 435, 471 9 Family & Child Studies 200 3 Food & Nutrition 220 3 Human Ecology 398 1 Merchandising & Consumer Studies 219,366, 426 9 Restricted Electives * 6 Senior Year 34 Education Curriculum & Instruction 403,416, 473 15 Education Curriculum & Instruction 480 or 3 Secondary Focus Electives 3 Family & Child Studies 410 3 Hurman Ecology 405, 415, 457 5
Sociology 201 3 Junior Year 30 Arts (GER) 3 Education Curriculum & Instruction 434, 435, 471 9 Family & Child Studies 200 3 Food & Nutrition 220 3 Human Ecology 398 1 Merchandising & Consumer Studies 219,366, 426 9 Restricted Electives * 6 Senior Year 34 Education Curriculum & Instruction 403,416, 473 15 Education Curriculum & Instruction 480 or 3 Family & Child Studies 410 3
Sociology 201 3 Junior Year 30 Arts (GER) 3 Education Curriculum & Instruction 434, 435, 471 9 Family & Child Studies 200 3 Food & Nutrition 220 3 Human Ecology 398 1 Merchandising & Consumer Studies 219,366, 426 9 Restricted Electives * 6 34 Senior Year Education Curriculum & Instruction 403,416, 473 15 Education Curriculum & Instruction 480 or 3 Secondary Focus Electives 3 Family & Child Studies 410 3 Hurnan Ecology 405, 415, 457 5 Restricted Electives * 6
Sociology 201 3 Junior Year 30 Arts (GER) 3 Education Curriculum & Instruction 434, 435, 471 9 Family & Child Studies 200 3 Food & Nutrition 220 3 Human Ecology 398 1 Merchandising & Consumer Studies 219,366, 426 9 Restricted Electives * 6 Senior Year 34 Education Curriculum & Instruction 403,416, 473 15 Education Curriculum & Instruction 480 or 3 Secondary Focus Electives 3 Family & Child Studies 410 3 Hurman Ecology 405, 415, 457 5
Sociology 201
Sociology 201 3 Junior Year 30 Arts (GER) 3 Education Curriculum & Instruction 434, 435, 471 9 Family & Child Studies 200 3 Food & Nutrition 220 3 Human Ecology 398 1 Merchandising & Consumer Studies 219,366, 426 9 Restricted Electives * 6 34 Senior Year Education Curriculum & Instruction 403,416, 473 15 Education Curriculum & Instruction 480 or 3 Secondary Focus Electives 3 Family & Child Studies 410 3 Hurnan Ecology 405, 415, 457 5 Restricted Electives * 6 32 32 Total Semester Hours 125
Sociology 201

*Restricted Electives to be selected by student in consultation with advisor to satisfy requirements for secondary teaching area.

Merchandising and Consumer Studies

Career Opportunities

Students completing the BA in Merchandising and Consumer Studies complete a freshman core of courses and then choose one of two concentrations: Merchandising or Consumer Studies.

The Consumer Studies concentration prepares students for careers that focus on how businesses, government agencies and community organizations interact with and promote the wellbeing of consumers and families. Graduates may seek employment with government and private consumer service agencies and/or businesses related to management and consumer education, customer service, consumer public relations, and cooperative extension.

The Merchandising concentration prepares students for managerial and merchandising careers in a dynamic, technologically advanced, and globally focused industry in the areas of merchandising, design, and promotion. Professional preparation includes studies in product creation, production, distribution, and promotion, and the opportunity to complete a minor in marketing, business administration, or art.

In both concentrations, University study is supplemented by experiential learning in local and metropolitan job settings. Travel-study programs provide students opportunities to study the global aspects of their fields.

Program Information

Students in the Merchandising and Consumer Studies program are eligible to apply for upper division when they have a 2.2 GPA on at least 30 semester hours credit, including 6 hours of English, 6 hours of Mathematics, University seminar 100, and 6 hours of Merchandising and Consumer Studies courses. They must have earned grades of **C** or better in English 101 and 102, 3 hours of mathematics and all Mcrchandising and Consumer Studies courses completed in the first 30 hours. Students must be admitted to upper division prior to enrolling in human ecology content courses numbered 300 or above.

Merchandising and Consumer Studies Curriculum (BA)

merchandising and Consumer Studies Curriculum (BA)
Freshman Year
English (GER)
Mathematics (GER)
Mathematics 100 or 101
Mathematics 112, 114, 125, or Statistics 200
Merchandising & Consumer Studies 108, 246, 256
Natural Sciences (GER)
Humanities (GER)
Speech 110
Sophomore Year
Accounting 201 or 206
Social Sciences (GER)
Economics 201 or 215
Psychology
Additional Social Sciences Course
Humanities (GER)
English 201 or 202
Additional Humanities course
Family & Child Studies 201
Merchandising & Consumer Studies 258
Directed Electives*
Director Electrics
30
Junior Year
Arts (GER)
Business Law 255
Humanities (GER)
History

Marketing 300, 420	6
Directed Electives*	
	33
Senior Year	
Directed Electives*	9
Human Ecology 457	1
Human Ecology Practica or Merchandising &	
Consumer Studies 498	
Journalism 450	
Management 470 or 305	
Merchandising & Consumer Studies 466	
Restricted Electives**	6
	28

Total Semester Hours	
(GER): General Education Requirements (pg. 14)	

* Directed Electives: chosen by student in consultation with advisor from one of the following concentrations below:

**Restricted Electives: three & four hundred level courses selected in consultation with the advisor

Consumer Studies Concentration Directed Electives

Sophomore Ycar: (6 hours) Family & Child Studies 210; Management 310;. Junior Year: (14 hours) Family and Child Studies 447 or 471; Merchandising and Consumer Studies 366, 426; Restricted Electives (5 hours); Senior Year: (9 hours) Merchandising and Consumer Studies 456; Hurnan Ecology electives (3 hours); Merchandising & Consumer Studies 388.

Merchandising Concentration Directed Electives

Sophomore Year: (6 hours) Merchandising and Consumer Studies 219, 238; Junior Year: (14 hours) Merchandising and Consumer Studies 118 or Merchandising & Consumer Studies elective; Merchandising & Consumer Studies 268, 308, 348, and 366 or 429;. Senior Year: (9 hours) Merchandising and Consumer Studies 488 and 439 or 440; Marketing 435.

Requirements for a Minor in Consumer Studies

A minimum of 21 hours to be selected from the following: Merchandising and Consumer Studies 108, 256, 258, 366, 426, 456, 466, 498; Human Ecology 327, 477; Family and Child Studies 447, 471.

Requirements for a Minor in Merchandising

A minimum of 21 hours with at least 9 hours at the 300 level or above to be selected from: Merchandising and Consumer Studies 108, 118, 219, 238, 258, 268, 308, 348, 429, 439, 440, 466, 488, 498; Human Ecology 477.

Nutrition and Dietetics (BS)

Career Opportunities

The undergraduate program in Nutrition and Dietetics is designed for students wishing to pursue careers as registered dietitians. The program is designed to allow students to master the American Dietetic Association knowledge requirements for entry-level practice. Students completing the program must also complete a dietetic internship before they are eligible to take the Registration Examination for Dietitians. The dietetic internship at Louisiana Tech University is described in detail in the graduate program section of the University catalog.

The undergraduate program at Louisiana Tech University is a generalist program. Students complete course work that prepares them for clinical dietetics, community dietetics, and food service management. After successfully completing the undergraduate program, a dietetic internship and the Registration Examination for Dietitians, graduates are prepared to assume clinical positions in health care facilities such as hospitals; community positions in health centers like public health departments and wellness centers; and management positions in food service systems.

Program Information

Students in Nutrition and Dietetics apply for upper division status prior to enrolling in the specialized phase of the program (junior and senior years). Students are eligible for upper division when they have completed at least 54 semester hours, including 35 hours of knowledge requirement courses, with a knowledge requirement (KR) grade point average of 2.85 and no grade less than a C in knowledge requirement courses. The knowledge requirement or KR courses are those in which students achieve the core knowledge requirements for entry level dietitians as specified by the American Dietetic Association. Additional information about the ADA knowledge requirements and KR courses can be obtained from academic advisors.

A 2.85 KR-GPA, with no grade lower than C in all knowledge requirement courses is required for graduation in this curriculum.

Nutrition and Dietetics Curriculum (BS)

Freshman Year	
English (GER))
Family & Child Studies 201	1
Food & Nutrition 103, Elective4	+
Humanities (GER)	
English 201 or 202	\$
Mathematics (GER)	
Mathematics 100 or 101	•
Merchandising & Consumer Studies 246	,
Natural Sciences (GER)	
Chemistry 120, 121, 122	1
Social Sciences (GER)	
Sociology 201	3
	_
32	2
Sophomore Year	
Accounting 101 or 201	3
Food & Nutrition 203, 220, 232, 274	2
Merchandising & Consumer Studies 256	3
Natural Sciences (GER)	
Biological Sciences 225, 226, 227, 228	3
Social Sciences (GER)	
Psychology 102	3
	_
29)
Junior Year	
Biological Sciences 214	ł
Food & Nutrition 305, 402, 403, 404, 41414	1
Humanities	
English 303	3
Speech 110 or 377	3
Management 310	3
Mathematics (GER)	
Statistics 200	3
	-
30)
Senior Year	
Arts (GER)	3
Food & Nutrition 302, 352, 412, 423, 463, 472	
Human Ecology 398, 457	2
Humanities (GER)	
History Elective	5
Social Sciences (GER)	
Psychology 400	3
	_
33	2
2.01.0000000000000000000000000000000000	
Total Semester Hours	3

(GER): General Education Requirements (pg. 14)

Requirements for a Minor in Human Nutrition

A minimum of 21 hours with at least 9 hours at the 300 level or above to be selected from Food & Nutrition 103, 203, 220, 232, 253, 305, 402, 403, 404.

Requirements for an Interdisciplinary Minor in Gerontology The minor in Gerontology is an interdisciplinary program requiring 24 hours, with at least 10 hours from courses at the 300 level or above.

Core courses (15 hours): Family and Child Studies 201 or Psychology 408; Health and Physical Education 406; Sociology 435; Family and Child Studies 447; 3-hour practica in Education, Health and Physical Education, Human Ecology, or Sociology.

Electives (9 hours): Electives are to be selected from those listed below and approved by the advisor. It is strongly suggested that ALL students elect either Psychology 475 or Sociology 436 for 3 of the 9 hours. Other elective courses include: Counseling 400; Family and Child Studies 210, 320, 400, 420; Food and Nutrition 203; Health and Physical Education 292, 401, 416; Psychology 474, 475, 480, 499; Sociology 308, 425, 436.

Division of Nursing

Vision

The Louisiana Tech University Division of Nursing is committed to serving as a benchmark nursing program in the community, state, and southern region of the country, through the provision of innovative teaching and interactive opportunities to prepare the entry level registered nurse to function in the evolving health care delivery system.

Mission

The Division of Nursing is committed to excellence in the education of students of diverse educational and cultural backgrounds, preparing them to enter an ever-changing health care environment as competent practitioners of nursing. This education environment fosters critical thinking, problem solving, teaching/learning and decision making. This is achieved through interaction with faculty and students. Through its commitment to service, the Division of Nursing is responsive to community needs and is cognizant of regional and national trends in health care delivery. The Division of Nursing recognizes its responsibility for theoretical and applied research with the goal of meeting the needs and enhancing the lives of citizens of the State of Louisiana. The concept of lifelong learning and personal accountability is an integral part of the Division of Nursing.

Program

The purpose of the Division of Nursing is to prepare graduates, with an Associate of Science Degree in Nursing, to function as beginning practitioners of nursing, thus affording unique benefits in meeting the health care needs of the community. The graduate will, also, upon completion of the prescribed program, be eligible to sit for the examination required for state licensure as registered nurses.

The Louisiana State Board of Nursing reserves the right to deny a graduate admission to sit for the R.N. Licensing Exam if he/she has ever been arrested, charged with, convicted of, pled guilty or no contest to, or been sentenced for any criminal offense.

The Division of Nursing is approved by the Louisiana State Board of Nursing and accredited by the National League for Nursing Accreditation Commission.

Admission to the Division of Nursing is based upon the following criteria established by the Admission Committee, Division of Nursing:

- Acceptable scores on the ACT.
- Grade point average of 2.6 or better from high school or college.
- Three letters of reference
- Evidence of LPN Licensure (if applicable)
- Pre-Nursing and Guidance examination (given four times a year on Tech campus)

- COPS Interest Test
- Indication of emotion stability, character, personality, maturity, and interest in nursing as determined by a personal interview.

After the student has been accepted into the nursing program, an annual physical examination is required. A chest xray and Hepatitis B vaccine, and varicella titer are required upon admission to the first nursing course along with current CPR certification. Students who hold or have held licensure in any health care discipline and who have or have had disciplinary action against such license; students who have ever been arrested, charged with, convicted of, pled guilty or no contest to, or been sentenced for any criminal offense; student who have habitually used or been diagnosed as addicted to drugs or alcohol; and students who have any physical or mental impairment which may affect their ability to practice safely as a registered nurse, shall petition the Louisiana Board of Nursing for review and action regarding their right to practice as student of nursing in Louisiana prior to entry into the first clinical course. Nursing students must be able to meet the Division of Nursing published Core Performance Standards (copy available in Nursing Office).

Applicants for readmission and transfer students must meet admission and progression criteria at the time of application. If more than 3 quarters have elapsed since the student was enrolled in a nursing course, an application to be readmitted must be approved by the Admission Committee.

All transfer students must provide a syllabus and course description for all courses for which transfer credit is desired. They must also submit a letter of reference from a faculty member of the school of nursing previously attended.

Nursing students must be covered by professional liability and accident insurance prior to registering for any nursing course.

In addition to the regular University fees, cost for uniforms, supplies, and equipment including books required in nursing program is approximately \$600 annually.

Students must achieve a minimum grade of C in each nursing and nursing-related course to progress from one sequentially designed nursing course to the next. A nursing course may be repeated only one time.

Upon successful completion of all course requirements, the student is eligible for graduation with an Associate of Science Degree.

Nursing Curriculum (ASN)

Freshman Year	
Biological Sciences 214*, 225*, 226*, 227*	t
English (GER)	â
Humanities (GER)	ĩ
Mathematics (GER)	1
Nursing 109, 110, 112, 114	5
1-413m5 109, 110, 112, 117	5
3	5
Summer Quarter	5
Nursing 116	c
Truising TTO	5
Sophomore Year	
Arts (GER)	l
English (GER)	วิ
Mathematics (GER)	a l
Nursing 210, 212, 214, 2161	0
Psychology 308	0 7
Tayenology Job	5
	7
J	v
Total Semester Hours	n
(GER): General Education Requirements (pg. 14)	U
(or the constant Dedeation requirements (pg. 14)	

*These courses are prerequisites for Nursing 114,

Listed below are general academic course requirements for the Pre-Nursing course work. These courses meet core curriculum requirements for baccalaureate degrees in Louisiana. The student is advised to contact the school of nursing to which he/she will be transferring for any specific course requirements of that program.

Pre-Nursing

r re-transing
English (GER)
Mathematics (GER)
Mathematics 101
Statistics 200
Natural Sciences (GER)
Biological Sciences 214, 225, 226, 227, 228
Chemistry 120, 121
Arts (GER)
Humanities (GER)
English 201 or 202
History 201 and 202 or Foreign Language (above 100-level)6
Speech 110
Social Sciences (GER)
Economics 215
Psychology 102
Sociology 201
Psychology 308, 418
Food & Nutrition 203

(GER): General Education Requirements (pg. 14)

After completing the above curriculum the student may transfer to a 4-year nursing program to complete the requirements for the baccalaureate degree in nursing.

Accelerated (Extension) Program

The Division of Nursing provides an opportunity for licensed practical nurses that wish to pursue the Associate of Science Degree in Nursing through the Extension Program (Accelerated Learning) at Glenwood Regional Medical Center in West Monroe, Louisiana. Graduates in nursing from stateapproved practical nurse educational programs who are currently licensed to practice, have had one year of clinical experience, and meet the admission criteria may be admitted.

After successful completion of Nursing 113, which is offered Spring Quarter only, the student is eligible for advanced placement in the Nursing curriculum. An extension student who is unsuccessful in Nursing 113 may take Nursing 109, 110, and 112 on the Ruston campus. Subsequent failure in any one of these courses prohibits progression.

Concurrently, it is required that each student successfully completes 17 credit hours of required general academic courses. The total course work for Extension students follows.

Courses

Arts (GER)
Biological Sciences 214*, 225*, 226*, 227*
English (GER)
Humanities (GER)
Mathematics (GER)*
Nursing 113*, 114, 116, 210, 212, 214, 216
Psychology 308
University Seminar 100 (Sec. 90)** (Prereq for NURS 113)1
Total Semester Hours
(GER): General Education Requirements (pg. 14)
*These courses are prerequisites for Nursing 114.
##Designed for Numing majors and annuined in annual of the h

**Designed for Nursing majors and required in program of study

Students may transfer credit earned for the general academic courses from other accredited universities. A minimum grade of C is required for acceptance of transfer courses.

Administration

Dean

Jo Ann Dauzat

Associate Dean, Graduate Studies, Research & Development Cathy Stockton

Associate Dean, Undergraduate Studies, & Director of Field and Clinical Experiences

Connie C. LaBorde

Curriculum, Instruction, & Leadership

David E. Gullatt, Head

Health & Exercise Sciences

James Heimdal, Head Psychology & Behavioral Sciences

Tony Young, Head

Professional Development and Research Institute on Blindness Ron Gardner, Director

A.E. Phillips Laboratory School

Carynn Wiggins, Director

Address

More information about the College of Education can be obtained by writing Louisiana Tech University

College of Education P.O. Box 3163 Ruston, LA 71272 (318) 257-3712 and/or visiting our web site at http://www.latech.edu/education/

Vision

Our vision is of an inclusive learning community renowned for fostering competent, ethical, and caring professionals who contribute significantly to a diverse and dynamic world.

Mission

The mission of the College of Education is three-fold:

- to provide high quality educational experiences for current and prospective professionals from baccalaureate through doctoral levels;
- to enhance and extend the knowledge bases undergirding professional programs through research and other scholarly activities; and
- to deliver professional services to the various business, civic, and educational communities through collaborative endeavors.

Goals

- To recruit, admit, and graduate quality candidates and students who exemplify the capacity and commitment to hecome effective public educators, school counselors, psychologists, and health promotion specialists in diverse settings throughout Louisiana and elsewhere;
- To provide education and human sciences students with quality programs of study and diverse practical experiences that prepare them to be wholly proficient in the knowledge, skills, and dispositions of their chosen areas of concentration and which are linked to competencies identified by recognized professional organizations;

- To support continuous personal and professional development opportunities for all candidates, students, and instructors;
- To recruit and retain a diverse student body;
- To recruit and retain diverse faculty who demonstrate high levels of competencies in the College's programs of study and who are committed to the College's vision, mission, philosophical approaches, and professional model;
- To continue to collaborate closely with personnel in the other colleges at Louisiana Tech University as well as at other university campuses, state agencies, professional organizations, school and health systems, and the community-at-large who are involved in the preparation of teacher candidates and other program students;
- To continually refine curricula and instructional procedures ensuring that research, theory, and professional practice optimally inform all programs;
- To enable faculty and program graduates to serve as positive change agents through the implementation of innovative ideas, strategies, rescarch, and technology;
- To generate original, quality research by faculty, candidates, and students consistent with the College programs and goals;
- To maintain a physical and psychological environment that is conducive to optimal student and faculty growth and development;
- To maintain positive interaction with alumni, corporate sector, public institutions, and other valued members of the College's external community.

Accreditation

The University is accredited by the Southern Association of Colleges and Schools (SACS) and the Teaching Programs are approved by Louisiana State Board of Elementary and Secondary Education (BESE). The College of Education is also accredited by the National Council for the Accreditation of Teacher Education (NCATE) for the preparation of teachers at the undergraduate and advanced degree levels.

History and Organization

Since the founding of Louisiana Tech in 1894, the education of teachers has been a primary aim of the institution. Highlights in the history of the College of Education include: A.E. Phillips Laboratory School was created by the Legislature in 1916; the State Board of Education approved teacher education curricula in 1925; the State Board recognized the reorganization of the eurricula in 1926; the Department of Education granted the organization of a separate school in 1933; physical education was transferred from the School of Arts and Sciences to the School of Education as a department in 1948; the Department of Psychology and Guidance was organized in 1965; the School was elevated to the level of College of Education in 1970 with the Division of Research and Publications being established; the State Board approved a reorganization of the College which created a Division of Research and Service and a Division of Curriculum and Instruction (Teacher Education) in 1972; Counseling and Psychology changed to Behavioral Sciences in 1975; and in 1994 the Department of Curriculum, Instruction, and Leadership replaced the Teacher Education area.

The State Board of Education (1957-1974) authorized granting the MA in Art Education, Elementary Education, English Education, Industrial/Organizational Psychology, Music Education, Social Studies Education, Special Education, and Vocational Guidance, and the MS in Biology Education, Business Education, Chemistry Education, Mathematics Education, Physics Education, and Health and Physical Education. The State Board of Education granted approval to offer the Specialist Degree in 1967 and extension courses in 1968. In 1994, the PhD in Counseling Psychology and the EdD in Curriculum and Instruction and Educational Leadership were authorized. (See Graduate Education section of the Catalog for graduate programs.)

Undergraduate Degrees

Bachelor of Science degree programs include:

- Speech, Language, Hearing Therapy
- Early/Elementary Education Grades PK-3
- Elementary Education Grades 1-6*
- Elementary/Special Education Mild/Moderate Dual
- Middle School Education Math/Science Grades 4-8
- Agriculture Education Grades 7-12**
- Business Education Grades 7-12**
- English Education Grades 7-12**
- Health and Physical Education Grades K-12
- Kinesiology and Health Promotion
- Mathematics Education Grades 7-12**
- Social Studies Education Grades 7-12**
- Biology Education Grades 7-12**
- Chemistry Education Grades 7-12**
- French Education Grades 7-12**
- Physics Education Grades 7-12**
- Speech Education Grades 7-12**
- Earth Science Education Grades 7-12**

*Will change to Grades 1-5 on July 1, 2004—State mandate. **Will change to Grades 6-12 on July 1, 2004—State mandate.

Bachelor of Arts degree programs include:

- Art Education Grades K-12
- Music Education Grades K-12
- Educational Services (non certifying)

Minors

The following minors* are offered in the College of Education: Psychology (Not available to teaching majors) Library Science Physical Education Health Education

Second content areas* include: Business Biology Chemistry Earth Science English French Journalism Library Science Mathematics Physics Special Education, Curriculum and Instruction Speech

*A student must earn a grade of C or better in each course applied toward meeting the requirements of a minor or second content area. This requirement will be applicable to new undergraduate students (freshmen and transfers) whose initial enrollment is Fall Quarter 2003 or quarters thereafter.

Requirements for Admissions, Retention, Transfer Credit, and Graduation

Admission and Retention in the College of Education

Students in the College of Education are subject to the scholastic standards of the University regarding probation, suspension, and readmission. Admission and retention for the College of Education is established and administered by the College of Education Admission and Retention Committee. Students desiring to enter the College of Education must file an application obtained from the College of Education Associate Dean's office. Students applying must have at least a 2.0 grade point average on all college work earned.

Upon admission to the College of Education, each student will be assigned an advisor who will assist in planning a program of study. This advisor will be available for conferences during the academic year and must be consulted prior to each registration.

All students entering the College of Education in the nonteaching programs must follow the curriculum in effect at the time they are admitted to the College of Education. Teaching majors must follow the curriculum in place after admission to the specific program. Students enrolled in the College of Education who change their major must follow the curriculum in effect at the time of the change. Any student may choose to follow a newer curriculum for as long as all requirements of the newer curriculum are fulfilled.

Students with a grade point average of less than 2.0 for 3 consecutive quarters will be dropped from the College of Education. Any student re-entering the College of Education after being suspended for academic, attendance, or disciplinary reasons must meet all entrance requirements and re-apply in writing to the Admission and Retention Committee. Appeal letters must be received in the office of the Associate Dean two weeks before the quarter begins.

NOTE: Admission to the College of Education does not ensure admission to a teaching program.

Admission to Teacher Education Programs

Students pursuing degrees in teacher preparation curricula must apply and meet all admission requirements prior to enrolling in specific teacher education classes.

After a student has earned or will have carned by the end of the current quarter a minimum of 46 semester hours of university credit toward a teacher education program, the student may apply for program admission. Application forms are available in the Office of the Associate Dean for Undergraduate Studies. An application must be submitted one week prior to the end of the quarter in which the student is seeking admission. The student must provide evidence that the following requirements have been met:

- Applicant must have earned at least 46 semester hours of college or university credits which include the following courses or their equivalents: Education 125; English (9 semester hours), science (9 semester hours); mathematics (6 semester hours); social studies (9 semester hours); and Speech 110 or 377. Applicant must have a minimum C average in each area.
- Applicant must have a grade point average of 2.2 on all hours attempted and an earned grade point average of 2.5, with a grade of at least C in Education 125, 310, English 101, 102; and Speech 110 or 377.

- Applicant must possess those physical, emotional, and mental characteristics necessary for effective classroom performance. Applicant must complete a speech and hearing test administered by the Louisiana Tech Department of Speech.
- Applicant must present satisfactory scores required in Louisiana on PRAXIS I (Reading, Writing, and Mathematics). Records indicating successful completion of these examinations must be presented at the time of admission (Act 836, 1984 Louisiana Legislature).
- Any student on academic or disciplinary probation or suspension is not eligible for admission to a Teacher Education Program.
- Any student seeking admission to a Teacher Education Program who has been convicted of a felony may be denied admission.
- All students admitted to the College of Education Teacher Education Programs must complete a Professional Portfolio that documents acquisition of Program Outcomes (Knowledge, Skills, and Dispositions), Standards of the National Board for Professional Teaching Standards, and Interstate New Teacher Assessment and Support Consortium (INTASC) Model Standards by the end of the quarter in which they complete clinical practice.
- Newly admitted students are required to attend an orientation meeting (TBA at the beginning of each quarter) for the purpose of reviewing programmatic matriculation.
- A temporary provision (one quarter only) for those students whose credentials do not meet all requirements may be granted under specified conditions. Information may be obtained in the Associate Dean's office.
- Applicants may be asked to appear before the Admission and Retention Committee of the College of Education to explain or defend their applications, to present additional information, or to demonstrate ability in certain areas.
- Falsification of information reported to the College of Education may result in the student being dropped from the College of Education.
- Policy changes due to state mandates or decisions in the College of Education implemented during this academic year will be posted on the College of Education website and may become effective during the academic year.

Guidelines for Admission to Field Experiences and Practica

- Registration for field experiences is completed online on the College of Education home page immediately following registration for the course.
- Most professional courses require field experiences that will prepare the candidate for his or her own classroom in the future.
- All students are placed in public schools and organizations. These placements are approved by the Field and Clinical Experiences Committee and are assigned by the Director of Field and Clinical Experiences.
- Students are required to review the orientation process prior to beginning field or clinical experiences.
- While the majority of field and clinical activities are course-related, others are completed over an approximate two-year period. Examples include attendance at professional seminars, visits to schools during the opening and closing of an academic year, and membership in professional organizations. Documentation of these activities should be placed in the Demographic Information section of the Professional Portfolio. The

Director of Field and Clinical Experiences will oversee these activities.

• Additional specific requirements are found in the *Field Experiences Handbook* found on the College of Education webpage.

Guidelines for Admission to Clinical Practice or Internship

- All candidates for clinical practice and internship:
- Must be fully admitted to the Teacher Education Program of the College of Education.
- Must have achieved a 2.2 GPA on cumulative hours pursued and a 2.5 GPA on hours earned.
- Must be recommended for clinical practice/internship by faculty advisor, practica clinical school and university faculty, and approved by the Field and Clinical Experiences Committee and the Director of Field and Clinical Experiences.
- Must have earned at least a C in all professional education or specialized academic education courses in both major and second content areas.
- Must have completed all required professional education courses.
- Must not schedule more than 3 semester hours in addition to clinical practice or internship. The course must not conflict with clinical practice or internship.
- Must have completed all required psychology courses.
- Must have completed all course work in major.
- Must first be approved for clinical practice or internship by the Field and Clinical Experiences Committee if he or she has a felony conviction record.
- Must have initiated required components of a Professional Portfolio.
- Must have passed all required parts of PRAXIS prior to placement. Original scores must be submitted for verification of passing scores that meet Louisiana requirements for teacher certification.
- Must meet the College of Education Expected Outcomes (Knowledge, Skills, and Dispositions).
- Accumulate a recommended 180 approved and documented field experience hours in public schools and organizations prior to placement.
- May be asked to appear before the Field and Clinical Experiences Committee to explain or defend their applications, to present additional information, or to demonstrate ability in certain areas.
- Are required to remain in the school of placement all-day (e.g. 8:00 a.m. 3:00 p.m. minimum) for an entire quarter and participate in all activities that are required of the clinical school faculty member.
- Must be placed in one of 10 public school systems in north Louisiana. These include: Bienville, Bossier, Caddo, Claiborne, Jackson, Lincoln, Monroe City, Ouachita, Union, and Webster.
- Must apply for clinical practice or internship during the carly advisement/registration period of the quarter immediately preceding the clinical experience/ internship. Applications are available in the Office of Field and Clinical Experiences, Woodard Hall 105. Failure to apply in a timely manner may result in a delay of placement.
- Additional specific requirements are found in the Clinical Practice Handbook available in the University Bookstore.
- No conventional grades or quality points are given. The final evaluation marking for student teaching is S-F (satisfactory or failure).
- Must drop student teaching/internship if all requirements are not met.

Guidelines for Application for Teaching Certificate:

- Complete all requirements of the teacher education curriculum within the College of Education and receive the bachelor's degree.
- Candidates complete paperwork and submit state required fee for teaching certificate from the State Department of Education in the Office of the Associate Dean of Field and Clinical Experiences.

Guidelines for Calculating the Earned GPA for Certification:

- No credit earned in developmental (remedial) courses shall be included in calculating the earned GPA.
- The GPA shall be calculated based on all credits earned at this University and any other university attended, including courses taken more than once.
- No grades of less than C may transfer to any teaching program.

Admission to Non-Certifying Programs In Psychology and Behavioral Sciences and Health and Exercise Sciences

Students pursuing degrees in teacher preparation curricula must meet the following admission requirements:

- Must have earned 30 semester hours of university credits which include the following courses or their equivalents: English 101, 102; Mathematics 101; and Speech 110 or 377.
- Health and Exercise Sciences majors must complete 18 semester hours of Health and Exercise Sciences courses including 3 different two-hour sport series courses.
- Psychology and Behavioral Sciences majors must complete 6 hours of Psychology including Psychology 102 or 202.
- Applicants must have a grade point average of 2.0 on all hours earned with a grade of at least C in English 101, 102, Speech 110 or 377, and all courses in major area.

Transfer Credit

With some exceptions, the College of Education accepts for degree credit work, such as that taken by examination and at other institutions, in accordance with published policies of Louisiana Tech University as stated in the general information section of the University's Catalog. The final determination of degree credit in any College curriculum is, however, made by the College Dean's office. Transfer evaluations will reflect all grades earned at another institution, but only grades of C or above will be accepted for credit.

Graduation and Requirements

All requirements listed in the General Information section of the Catalog apply. In addition, students completing a degree program leading to Louisiana Teacher Certification must:

- Make a grade no lower than C in all specialized academic courses and in all professional courses.
- Earn a cumulative grade point average of at least 2.5 and an earned grade point average of 2.2 (on a scale of 4.0).
- Post passing scores on all required components of the PRAXIS examinations as a graduation requirement and to be eligible for certification.
- Successfully complete three semester hours of Fine Arts selected from the following: Art 290, Health and Exercise Sciences 280, Music 290, or Speech/Theatre 290. Elementary majors are required to take Liberal Arts 336.
- Make a grade no lower than C in all specialized academic courses.

 Complete all required paperwork and pay the fee for certification to be submitted to the state. Original scores on all required parts of Praxis must be on file in the Office of Field and Clinical Experience.

Students completing a non-teacher certification degree program must:

- Make a grade no lower than C in all specialized academic courses.
- Earn a cumulative grade point average of 2.0 (on a 4.0 scale).

Courses numbered less than 100 will not apply toward degree requirements in any curriculum.

State certification requirements do not permit the substitution of credit for ROTC and band for health and physical education activity requirements. Health and physical education activity credit accepted by the University for Military Service can be applied to satisfy this requirement, except in cases where a specific activity is required in a curriculum.

Special Programs and /or Requirements

Induction Year Program (Quality Assurance Program)

The College of Education offers assistance to first-year teachers through an Induction Year Program. Each first-year teacher from Louisiana Tech University who is employed in the region is offered assistance in conjunction with the local school system. Information is available in the Dean's office.

Alternative Certification Program

The College of Education offers alternative programs for the certification of teachers. Additional information may be obtained hy contacting the Office of the Associate Dean of Undergraduate Studies and Field and Clinical Experiences.

Programs are available in the following certification areas:

- Early Elementary Education Grades PK-3
- Elementary Education Grades 1-6*
- Middle Grades 4-8 Mathematics/Science Education***
- Agriculture Education (7-12)**
- Business Education (7-12)**
- English Education (7-12)**
- Foreign Language Education (7-12)**
- Mathematics Education (7-12)**
- Biology Education (7-12)**
- Chemistry Education (7-12)**
- Earth Science Education (7-12)**
- Physics Education (7-12)**
- Speech Education (7-12)**
- Social Studies Education (7-12)**
- Special Education—Mild/Moderate

*Will change to Grades 1-5 on July 1, 2004—State mandate. **Will change to Grades 6-12 on July 1, 2004—State mandate.

***Under review

College Scholarships

The following scholarships are available in the College of Education. For information concerning these scholarships, contact the Office of the Associate Dean of Undergraduate Studies and Field and Clinical Experiences.

- Mary Wilson Scholarship (Elementary Education)
- College of Education General Scholarships

- Lanette Southall Fisher Memorial Scholarship (Sophomore in Education)
- Erma Flesher Memorial (Social Studies)
- Estelle Harris Memorial Scholarship (Elementary Education)
- John Henry Milling Scholarship (Junior or Senior in Education)
- Mary Ann Smalling Scholarship and Kalil Scholarship (Library Science)
- Wilbur Bergeron Memorial Scholarship
- Enid Gladden Butler Scholarship (Graduate)
- Causey-Tanner Scholarship
- John Cawthon Scholarship (Teacher Preparation)
- Mary Ross Higginbotham Scholarship (Library Science, English, or Social Studies)
- Linda Lou Allen Hudson Scholarship (Junior or Senior Elementary Education)
- Knots Memorial Scholarship (Physical Education)
- Pipes Memorial Scholarship (Mathematics or Science Education)
- Betty Edward-Owens Scholarship
- James Harold Napper Academic Scholarship (Junior in Education)
- Joan Sanders Kappa Delta Pi Scholarship (Kappa Delta Pi member)

Student Organizations

The college sponsors several student organizations that provide numerous opportunities for service, professional and leadership development, and social functions among student members and faculty. These organizations include the following:

- A+PEL-Associate Professional Educators of Louisiana
- ACEI Association for Childhood Education International
- SCEC-Student Council for Exceptional Children
- Kappa Delta Pi -National Honor Society in Education
- LAE-SP-Louisiana Association of Educators- Student Program
- ESPE -Exercise Science and Physical Education
- Pi Lambda Theta-National Honor Society in Education
- Psi Chi National Honor Society in Psychology
- Psychology Society

Bachelor Degree Programs

Department of Curriculum, Instruction, and Leadership

The teaching education curriculum prepares students to function as teachers in a variety of field and situations. Programs are organized as elementary, middle, secondary, and all levels. Generally, elementary teachers are in charge of teaching children between the grades of preschool to 6^{th} grade. Middle school teachers address the needs of children mostly in grades 4-8 with secondary teachers in charge of students in grades 7-12. Various school organizations may have different configurations of these grades: however, this will provide a general overview to the interest areas. There is another area of teacher education that works with all grades and covers the teaching areas of Art, Music, and Health and Physical Education. These teachers are expected to teach students in all grades from elementary through secondary.

The College of Education is currently redesigning all programs for K-12 teacher certification. For further information on education degree programs offered by Louisiana Tech University, contact the specific departments. New curricula will be published in the 2005-2006 Catalog.

Early/Elementary Education – Grades PK-3 Curriculum (BS) Freehman Year

Freshman Year
English (GER) English 101,1026
Mathematics (GER)
Mathematics 101
Math 112 or 125 or Statistics 200
Biological Sciences 101,102
Humanities (GER)
English 201 or 202
History 201
Social Sciences (GER) Political Science 201
Mathematics 203, 204
Sorthomory Vars
Sophomore Year Computer Literacy (GER)
Education Curriculum and Instruction 310
Natural Sciences (GER)
Geology 111 or 112
Arts (GER) Liberal Arts 336
Humanities (GER)
English 332 or 336
Speech 110 or 240 or 372
Social Sciences (GER) Geography 310
Psychology 204
Education Curriculum and Instruction 125 1
Family and Child Studies 221, 311, 3319
31
Junior Year
Education Curriculum and Instruction 417, 420-M, 420-R,
420-S/S, 422, 423, 424, 431, 471, 477
Family and Child Studies 301
33
Senior Year 33
Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3,
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482
Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3,
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 6 Health and Physical Education 340 3 Library Science 201 30 Total Semester Hours
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 18 Family and Child Studies 361,401 6 Health and Physical Education 340 30 Total Semester Hours 127 Elementary Education Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 6 Mathematics (GER) Mathematics 101
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 6 Health and Physical Education 340 30 Total Semester Hours 127 Elementary Education Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 6 Mathematics (GER) Mathematics 101 3 Mathematics 112 or 125 or Statistics 200
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 6 Health and Physical Education 340 30 Total Semester Hours 127 Elementary Education Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 Mathematics (GER) Mathematics 101 3 Natural Sciences (GER)
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 Health and Physical Education 340 30 Total Semester Hours 127 Elementary Education Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 Mathematics 101 3 Mathematics 112 or 125 or Statistics 200 3 Natural Sciences (GER) Biological Sciences 101,102 6 Humanities (GER)
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 6 Health and Physical Education 340 30 Total Semester Hours 127 Elementary Education - Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 Mathematics (GER) Mathematics (GER) Biological Sciences 101,102 Biological Sciences 101,102 Biological Sciences 101,102 6 Humanities (GER) English 201 or 202 3
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 Health and Physical Education 340 30 Total Semester Hours 127 Elementary Education - Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 Mathematics (GER) Mathematics 101 Mathematics 112 or 125 or Statistics 200 Mature (GER) Biological Sciences 101,102 6 Humanities (GER) English 201 or 202 3 History 201
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 Health and Physical Education 340 3 Library Science 201 30 Total Semester Hours 127 Elementary Education Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 6 Mathematics (GER) Mathematics 112 or 125 or Statistics 200 3 Natural Sciences (GER) Biological Sciences 101,102 6 Humanities (GER) English 201 or 202 3 History 201 3 Social Sciences (GER)
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 Health and Physical Education 340 Jibrary Science 201 30 Total Semester Hours 127 Elementary Education Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 Mathematics (GER) Mathematics 112 or 125 or Statistics 200 Mathematics 112 or 125 or Statistics 200 Shitory 201 Social Sciences (GER) Pinglish 201 or 202 31 History 201 32 Social Sciences (GER) Political Science 201 33 Social Sciences (GER) Political Science 201 33 Social Science 201 34 Firshina Year English 201 or 202 32 History 201 33 Social Science 201 35 Social Science 201 35 Enducation Curriculu
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 Health and Physical Education 340 Jibrary Science 201 30 Total Semester Hours 127 Elementary Education Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 Mathematics (GER) Mathematics 112 or 125 or Statistics 200 Mathematics 112 or 125 or Statistics 200 Shological Sciences 101,102 6 History 201 30 Social Sciences (GER) Political Science 201
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 Health and Physical Education 340 Jibrary Science 201 30 Total Semester Hours 127 Elementary Education Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 Mathematics (GER) Biological Sciences 101,102 Biological Sciences 101,102 Humanities (GER) English 201 or 202 31 Biological Science 201 32 Social Sciences (GER) Political Science 201 33 Social Science 201 34 History 201 35 Social Science 201 36 Education Curriculum and Instruction 125 1 Mathematics 203
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 Health and Physical Education 340 Jibrary Science 201 30 Total Semester Hours 127 Elementary Education Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 Mathematics (GER) Mathematics (101 Mathematics (112 or 125 or Statistics 200 Biological Sciences 101,102 Biological Sciences 101,102 Humanities (GER) Pinglish 201 or 202 3 History 201 3 Social Sciences (GER) Political Science 201 3 Social Sciences (GER) Political Science 201 3 Biological Science 201 3 Social Sciences (GER) Political Science 201 3 Biological Science 201 3 Biological Science 201 3 Biological Science 201
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 Health and Physical Education 340 30 Total Semester Hours 127 Elementary Education - Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 Mathematics (GER) Mathematics 112 or 125 or Statistics 200 30 Natural Sciences (GER) Biological Sciences 101,102 6 Humanities (GER) English 201 or 202 31 Social Sciences (GER) Political Science 201 32 Social Sciences (GER) Political Science 201 33 Social Science 201 34 35 36 Sophomore Year Computer Literacy (GER)
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 Health and Physical Education 340 30 Total Semester Hours 127 Elementary Education - Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 Mathematics (GER) Mathematics 112 or 125 or Statistics 200 Mathematics (GER) Biological Sciences 101,102 History 201 30 Social Sciences (GER) Political Science 201 31 Sophomore Year Computer Literacy (GER) Education Curriculum and Instruction 310 32
33 Senior Year Education Curriculum and Instruction 416#PK,416#K-1,416#2-3, 434, 441,482 Family and Child Studies 361,401 Health and Physical Education 340 30 Total Semester Hours 127 Elementary Education - Grades 1-6 Curriculum (BS)* Freshman Year English 101,102 Mathematics (GER) Mathematics 112 or 125 or Statistics 200 30 Natural Sciences (GER) Biological Sciences 101,102 6 Humanities (GER) English 201 or 202 31 Social Sciences (GER) Political Science 201 32 Social Sciences (GER) Political Science 201 33 Social Science 201 34 35 36 Sophomore Year Computer Literacy (GER)

Speech 110 or 377	
Social Sciences (GER)	
Psychology 204	3
Biological Sciences 201	
English 332 or 336	3
Mathematics 204	
Physics 205	3

	30
Junior Year	
Arts (GER)	
Liberal Arts 336	3
Social Sciences (GER)	
Geography 205	3
Education Curriculum and Instruction 421,423,424,435,438,	
400,471	21
Health and Exercise Sciences 340	3
Psychology 205	3
	33
Senior Year	
Education Curriculum and Instruction 416,417,420-M,420-R,	
420-S/S,422,425,426,434	33

33

31

Elementary (Grades 1-6)*/Special Education (Grades 1-12) Mild-Moderate/Dual Curriculum (BS)

Freshman Year

Ene	/lish	(GER)

English 101,102	6
Mathematics (GER)	
Math 101	3
Math 112 or 125 or Statistics 200	3
Natural Sciences (GER)	
Biological Sciences 101,102	6
Humanities (GER)	
English 201 or 202	3
History 201	3
Social Sciences (GER)	
Political Science 201	3
Math 203	
Education Curriculum and Instruction 125	1

	51
Sophomore Year	
Computer Literacy (GER)	
Education Curriculum and Instruction 310	3
Natural Sciences (GER)	
Geology 111	3
Arts (GER)	
Liberal Arts 336	3
Humanities (GER)	
English 332 or 336	3
Speech 110 or 377	3
Social Sciences (GER)	
Geography 205	3
Psychology 207	
Biological Sciences 201	
Ніstory 202,360	
Math 204	

	33
Junior Year	
Education Curriculum and Instruction 420/SS, 421, 423, 424,	
435, 438, 471, 472	24
Health and Exercise Sciences 340	
Physics 205	
	30

Senior Year	50
Education Curriculum and Instruction 400, 416, 417, 420-M,	
420-R, 422, 440, 473, 477	33

Total	Semester	Hours		
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Middle School Education - Mathematics - Grades 4-8 Curriculum (BS)-(Under review-will be combined with Science. Check with advisor.) Freshman Year English (GER) Mathematics (GER) Natural Sciences (GER) Humanities (GER) Social Sciences (GER) Education Curriculum and Instruction 125...... 1 33 Sophomore Year Computer Literacy (GER) Natural Sciences (GER) Humanities (GER) 31 Junior Year Social Sciences (GER) Education Curriculum and Instruction 420-M, 422, 423, 424, 30 Senior Year Education Curriculum and Instruction 416, 435, 473 15 30 Middle School Education - Science Grades 4-8 Curriculum (BS)-(Under review-will be combined with Mathematics. Check with advisor.) Freshman Year English (GER) Mathematics (GER) Natural Sciences (GER) Humanities (GER) 32

33

Sophomore Year
Computer Literacy (GER)
Education Curriculum and Instruction 310
Natural Sciences (GER)
Geology 111 or 112
Humanities (GER)
History 202
Speech 110 or 377
Social Sciences (GER)
Geography 205
Psychology 204, 2066
Education Curriculum and Instruction 125
Mathematics 203, 204
Physics 209

	31
Junior Year	
Arts (GER)	.3
Biological Sciences 201	.3
Chemistry 120, 122	.4
Education Curriculum and Instruction 420, 422, 423, 424, 4341	5
Environmental Science 211.	.3
Mathematics 113	.3

—	31
Senior Year	
Chemistry 121	3
Education Curriculum and Instruction 416, 435, 464, 471, 473	21
English 303	3
Geography 310	3
Physics 210 or 220	3
_	
	33

Total Semester Hours

Agriculture Education Curriculum Grades 7-12* (BS) (Under review—Check with advisor.) Freshman Year English (GER)

English (GER)	
English 101, 102	6
Mathematics (GER)	
Math 101/125 or 240/241	6
Natural Sciences (GER)	
Chemistry 100, 101, 102	6
Social Sciences (GER)	
Sociology 201	
Agricultural Science 211	2
Animal Science 111,113	4
Education Curriculum and Instruction 125	1
Plant Science 101	3

31
Sophomore Year
Computer Literacy (GER)
Education Curriculum and Instruction 310
Natural Sciences (GER)
Biological Sciences 130, 131
Arts (GER)
Humanities (GER)
English 201 or 202
History 201
Speech 110 or 377
Social Sciences (GER)
Political Science 201
Psychology 207
Agricultural Business 220
Biological Sciences 132*, 133*
•
32
Junior Year
Humanities (GER)

English 303	
Agricultural Business 402	3
Agricultural Education 450, 460	6

Agricultural Science 320 Biological Sciences 201*, 224*, 310* Education Curriculum and Instruction 403	
Plant Science 310, 311, 420	
Biological Sciences 313* Education Curriculum and Instruction 401, 405, 416, 434, 435,	
471, 472, 480	
Total Hours	31
*Required for second content area.	120

Art Education Curriculum (BA)—(Under review—Check with advisor.)
Freshman Year Art 115, 116, 125, 126, 220
Natural Sciences (GER) Biological Sciences 101, 102
English (GER)
Mathematics 101
32
Sophomore Year Art 118, 266
Education 1251
Special Education 300
Humanities (GER)
English 201, 202
History 201
Health and Exercise Sciences 150
Mathematics (GER) Mathematics 125
Social Sciences (GER)
Psychology 204
30
Junior Year Arts 267, 468, 4739
Architecture 400
Education 450, 480
History 202
Natural Sciences (GER) Physical Science
Social Sciences (GER)
Political Science 201
Psychology 206
Science Elective
Senior Year
Art 240 or 241
Art History Elective
Education 401, 402, 403, 416, 463, 475
Social Sciences (GER)
29
Total Semester Hours
Biology Education - Grades 7-12* Curriculum (BS) Freshman Year
English (GER) English 101, 1026
Mathematics (GER)
Mathematics 101/112 or 240/241
Biological Sciences 130, 131, 132, 133
Chemistry 120, 122

Humanities (GER)

English 201 or 2023
History 201 or 202
Education Curriculum and Instruction 1251
Second content area2

	33
Sophomore Year	
Computer Literacy (GER)	
Education Curriculum and Instruction 310	3
Humanities (GER)	
Speech 110 or 377	3
Social Sciences (GER)	
Geography 205	3
Psychology 206	3
Biological Sciences 216, 217, 224, 260	11
Environmental Science 211	3
Second content area	6

	32
Junior Year	
Arts (GER)	3
Social Sciences (GER)	
Psychology 204	3
Biological Sciences 310, 313, 315	
Education Curriculum and Instruction 403, 434	
Physics 209	3
Second content area	

	52
Senior Year	
Humanities (GER)	
English 303	3
Education Curriculum and Instruction 401, 416, 435, 464, 471, 472	.22
Education Curriculum and Instruction 480 or	
Second content methods	3

27

28

Business Education - Grades 7-12* Curriculum (BS) Freshman Year English (GER) English 101, 102 Mathematics (GER) Mathematics 101/125 or 240/241 Mathematics 101/125 or 240/241 Geological Sciences 101/102 or 130/132 Geology 111 or Physics 205 Hurmanities (GER) History 201 or 202

Social Sciences (GER)
Economics 201 or 202
Education Curriculum and Instruction 125

	- 28
Sophomore Year	
Computer Literacy (GER)	
Education 310	3
Humanities (GER)	
English 201 or 202	3
Speech 110 or 377	
•	

Social Sciences (GER)	
Political Science 201	3
Psychology 207	3
Accounting 201,202	6
Business Communication 305	
Business Law 255	3
Second content area	6

	33
Junior Year	
Arts (GER)	3

Humanities (GER) English 303
Education Curriculum and Instruction 409, 410, 435, 471
Management 310
Marketing 300
Second content area
32
Senior Year
Education Curriculum and Instruction 401, 403, 416, 434, 445,
447, 448, 472
Education Curriculum and Instruction 480 or
Second content methods
51
Total Semester Hours
Chemistry Education Grades 7-12* Curriculum (BS)
Freshman Year
English (GER) English 101, 102
Mathematics (GER)
Mathematics 101/112 or 240/241
Natural Sciences (GER)
Biological Sciences 130, 131, 132, 133
Chemistry 100
Chemisury 101, 102, 105, 104
Education Curriculum and Instruction 125 1
Sophomore Year
Computer Literacy (GER)
Education Curriculum and Instruction 310
Humanities (GER)
English 201 or 202
History 201 or 202
Social Sciences (GER)
Geography 205
Chemistry 250, 251, 252, 253, 254
Geology 111 or Physics 209
Second content area
32
Junior Year
Arts (GER
Social Sciences (GER) Psychology 204, 206
Chemistry 205, 351
Education Curriculum and Instruction 403, 434
Environmental Science 211
Second content area
32
Senior Year
Humanities (GER)
English 303
Education Curriculum and Instruction 401, 416, 435, 464,471, 47222 Education Curriculum and Instruction 480 or
Second content methods
Environmental Science 313
31
Total Semester Hours
Earth Science Education - Grades 7-12* Curriculum (BS)
Freshman Year
English (GER)
English 101, 102
Mathematics (01/112 or 240/241

Natural Sciences (GER)

Biological Sciences 130, 131, 132, 133	8
Geology 111	
Humanities (GER)	
History 201 or 202	3
Geology 112, 121, 122	

31
Sophomore Year
Computer Literacy (GER)
Education Curriculum and Instruction 310
Humanities (GER)
English 201 or 202
Speech 110 or 377
Social Sciences (GER)
Geography 205
Psychology 206
Education Curriculum and Instruction 125
Environmental Science 211
Geology 200, 302
Second content area

	31
Junior Year	
Arts (GER)	
Humanities (GER)	
English 303	
Social Sciences (GER)	
Psychology 204	
Education Curriculum and Instruction 434	
Environmental Science 313.	3
Geology 303, 318	6
Physics 220 or 230	
Second content area	8
	32

Senior Year	
Education Curriculum and Instruction 401, 403, 416, 435,	
464, 471, 472	25
Education Curriculum and Instruction 480 or	
Second content methods	
Environmental Science 458	
	21

English Education - Grades 7-12* Curriculum (BA)	
Freshman Year	
English (GER)	
English 101, 102	6
Mathematics (GER)	
Math 101/125 or 240/241	6
Natural Sciences (GER)	
Biological Sciences 101/102 or 130/132	6
Humanities (GER)	
English 201	3
History 201 or 202	3
Social Sciences (GER)	
Geography 205	
Political Science 201	
Political Science 201	
Education Curriculum and Instruction 125	

31
Sophomore Year
Computer Literacy (GER)
Education Curriculum and Instruction 310
Natural Sciences (GER)
Geology 111 or 112 or Physics 205
Arts (GER)
Humanities (GER)
English 403 or 4043
Speech 110 or 377
English 202, 332, 336
Second content area
30

Junior Year	
Social Sciences (GER) Psychology 207	2
Education Curriculum and Instruction 403, 434	
English 303, 415, 422	9
English 416/418 or 417/429	6
Second content area	8
	32
Senior Year	
Education Curriculum and Instruction 401, 416, 435, 457, 471, 472	27
Education Curriculum and Instruction 480 or	
Second content methods	
English 406 or 430 English 413 or 414 or 455	
English 415 of 414 of 455	و
	31
Total Semester Hours	10.4
Total Semester Hours	124
French Education – Grades 7-12* Curriculum (B	(A)
Freshman Year	
English (GER) Humanities (GER)	6
English 201	3
History 201, 202	6
Speech 110 or 377	
Mathematics (GER) Mathematics 101	,
French 101, 102, 201	
Health and Exercise Sciences	2
	32
Sophomore Year	32
Natural Sciences (GER)	
Biological Sciences 101, 102 Physical Sciences	
Social Sciences (GER)	
Political Science 201	3
Psychology 204	
Arts (GER) Mathematics (GER)	
Mathematics 125	
Education 125	1
French 202, 301, 302	9
Junior Year	
Computer Literacy (GER)	
Education 310 Humanities (GER)	3
English 202	
Social Sciences (GER)	
Education 453, 480	6
French 304, 305 French Upper Division Electives	66
Psychology 206	
Senior Year	30
Education 401, 402, 403, 416, 475	
French 450, 470	6
Health and Exercise Sciences 150 Biological or Physical Science Electives	2
Special Education 300	
	31
Total Semester Hours	

As the scheduling of upper-division French courses is determined by changing enrollment patterns, students who plan to complete their degree within the shortest time possible may have to take one or more French courses through the Inter-institutional Cooperative Program at Grambling University.

Mathematics Education Grades 7-12* Curriculum (BS) Freshman Year
English (GER)
English 101, 1026
Mathematics (GER)
Mathematics 240, 2416
Natural Sciences (GER)
Biological Sciences 101 or 130
Physics 209
Humanities (GER)
History 201 or 202
Speech 110 or 377
Social Sciences (GER)
Geography 205
Mathematics 242
Education Curriculum and Instruction 1251

Sophomore Year Computer Literacy (GER) Education Curriculum and Instruction 310 Natural Sciences (GER) Physics 210 or 220 3 Humanities (GER) English 201 or 202 3 Social Sciences (GER) Political Science 201 3 Psychology 207 3 Education Curriculum and Instruction 434, 435 6 Mathematics 113, 243, 244 9 Second constant uses		31
Education Curriculum and Instruction 310	Sophomore Year	
Natural Sciences (GER) Physics 210 or 220	Computer Literacy (GER)	
Physics 210 or 220	Éducation Curriculum and Instruction 310	3
Humanities (GER) English 201 or 202	Natural Sciences (GER)	
English 201 or 202	Physics 210 or 220	3
Social Sciences (GER) Political Science 201	Humanities (GER)	
Political Science 201	English 201 or 202	3
Psychology 207	Social Sciences (GER)	
Education Curriculum and Instruction 434, 435	Political Science 201	3
Education Curriculum and Instruction 434, 435	Psychology 207	3
Mathematics 113, 243, 2449	Education Curriculum and Instruction 434, 435	6
Second content area	Second content area	

	32
Junior Year	
Humanities (GER)	
English 303	3
Education Curriculum and Instruction 471, 472, 480	9
Mathematics 307, 308, 311	9
Second content area	6
Statistics 200	
Statistics 200	3

	30
Senior Year	
Arts (GER)	3
Education Curriculum and Instruction 401, 403, 416, 456	16
Mathematics 318, 401	6
Second content area	6
	31

Total Semester Hours	24
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Humanmes (GER)
Speech 110 or 377
Music Applied, Private Lessons
Music Ensembles
Music Theory 101, 102
Music Pedagogy 372, 351 (I) or
Music Applied, Classes and Recitals 233, 234 (V)2
Music Applied, Classes and Recitals 1000
Education 125

	31
Sophomore Year	
Natural Sciences (GER)	6
Humanities (GER)	
English 201 or 202	.3
Social Sciences (GER)	
Music Theory 103, 201, 202	
Music Applied, Private Lessons	

Music Ensembles	3
Music Pedagogy 371, 364 (I) or Music Pedagogy 311 (V)	2
Music History 304, 305	
Music Pedagogy 300 and	
Music Applied, Classes and Recitals 232 (V) or	
Music Elective (I)	2
Music Pedagogy 331	1
Music Applied, Classes and Recitals 100	0
	35
Junior Year	
Humanities (GER)	
History 201 or 202	
English	
Social Sciences (GER)	
Education 480	
Music Technology 301	
Music Applied, Private Lessons	
Music Ensembles	
Music Theory 203, 302, 330 (V) or 370 (I)	
Music History and Literature	
Music Pedagogy 300, 352	
Music Applied, Classes and Recitals 100	
Music Applied, Classes and Recitals 399	
	32
Senior Year	
Social Sciences (GER)	
Education 403, 416, 475	14
Psychology 408	
Music Pedagogy 464, 465 (V) or 466 (I)	6
Music Pedagogy 301 (V) or 302 (I)	
Music Pedagogy 363, 370, 381 (I) or Music Elective (V)	3
Music Ensembles	2
Music Applied, Classes and Recitals 100	0
	33

Fotal Semester Hours	131
(V) = Vocal Program	

(I) = Instrumental Program

After completing the curriculum, the graduate will be eligible for certification from the State Department of Education to teach vocal and/or instrumental music in schools, depending upon the applied music elected. Upon entrance, the teacher candidate will declare the particular certification desired.

For those desiring ccrtification to teach music, the distribution of work taken in applied music must be in accordance with one or more of the plans listed above. The plan, or plans, pursued will be determined by individual desire for certification.

The curriculum for Vocal and Instrumental Certificate includes both Music 303 and 314, Education 465 and 466, and 20 additional music hours. Ensemble requirements for Music Majors listed under the College of Liberal Arts should be noted.

Physics Education - Grades 7-12* Curriculum (BS) —
(Under review—Check with advisor.)
Freshman Year
English (GER)
English 101, 1026
Mathematics (GER)
Mathematics 240, 2416
Natural Sciences (GER)
Biological Sciences 130, 131, 132, 133
Humanities (GER)
English 201 or 202
History 201 or 202
Social Sciences (GER)
Psychology 204
29
Sophomore Year
Computer Literacy (GER)
Education Curriculum and Instruction 310
Natural Sciences (GER)
Geology 111
Humanities (GER)

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Speech 110 or 377	
Social Sciences (GER)	•
Geography 205	3
Psychology 206	
Education Curriculum and Instruction 125	1
Physics 201, 202, 261, and 262	
Physics 220 or 230	
Second content area	6

	33
Junior Year	
Arts (GER)	
Humanities (GER)	
English 303	3
Education Curriculum and Instruction 403, 434, 472	9
Environmental Science 211	3
Physics 303 or 304	
Physics 307	
Second content area	
	32

Social Studies Education - Grades 7-12* Curriculum (BA) (Under review—Check with advisor.) Freshman Year
English (GER)
English 101, 102
Mathematics (GER)
Mathematics 101/125 or 240/241
Natural Sciences (GER)
Biological Sciences 101/102 or 130/1326
Geology 111 or 112 or Physics 205
Humanities (GER)
History 101
Social Sciences (GER)
Economics 201
Geography 205
Education Curriculum and Instruction 125

31	•
Sophomore Year	
Computer Literacy (GER)	
Education Curriculum and Instruction 310	
Humanities (GER)	
English 201 or 202	
History 102	
Speech 110 or 377	
Social Sciences (GER)	
Political Science 201	
Economics 202	
Geography 210	
Psychology 207	
Second content area	
Sociology 201	

	30
Junior Year	20
Arts (GER)	
Education Curriculum and Instruction 435, 471, 472	9
English 332 or 336	
Geography 203	
History 201, 202, 360	
Second content area	

Senior Year	33
Education Curriculum and Instruction 401, 403, 416, 434, 459	19

Secondary focus methods	3
Political Science 310 or 320 or 330	3
Second content area	5
_	
	30
Total Semester Hours	124
_	
Speech Education – Grades 7-12* Curriculum (BS)	
Freshman Year	
English (GER)	
English 101, 102	6
Mathematics (GER)	
Mathematics 101/125 or 240/241	6
Natural Sciences (GER)	
Biological Sciences 101 or 130	3
Humanities (GER)	
History 201 or 202	3
Speech 110 or 377	3
Social Sciences (GER)	
Political Science 201	3
Education Curriculum and Instruction 125	1
Speech 211	3
Speech Thcatre 201	3
	31
Sophomore Year	
Computer Literacy (GER)	
Education Curriculum and Instruction 310	3
Arts (GER)	3
Natural Sciences (GER)	
Biological Sciences 102 or 132	3
Geology 111 or 112 or Physics 205	3
Humanities (GER)	
English 201 or 202	3
Speech 260	3
Social Sciences (GER)	_
Psychology 207	3
Second content area	3
Speech Theatre 240, 307	6
Junior Year	30
Social Sciences (GER)	
Geography 205	•
Education 403, 434, 467	3
English 332 or 336	9
Second content area	3
Speech 300 215	9
Speech 300, 315 Speech Theatre 409	0
Breech Theate 409	و
	33
Senior Year	22
Education Curriculum and Instruction 401, 416, 435, 471,	
472, 480	22
Second content area	22
Speech 440	<u>2</u> 1
Speech Theatre 490	
-	30
Total Semester Hours 1	24
Speech, Language, Hearing Therapy Curriculum (BS)	
Freshman Year	
English (GER)	
English 201 or 202	6
Mathematics (GER)	
Mathematics 101	3
Natural Sciences (GER)	
Biological Sciences 101, 102	6
Health and Exercise Sciences Activity	2
Speech 110, 202, 210, 222, 301, and 302	16
	. •
	36

Education Curriculum and Instruction 480 or

Sophomore Year	
Humanities (GER)	
History 201, 202	.6
Natural Sciences (GER)	
Physical Science	.3
Social Sciences (GER)	
Political Science 201	.3
Mathematics (GER)	
Mathematics	.3
Education 125	.1
Speech 411, 413, 418, 470	12
Psychology 204, 205	
Biological Science 224	
	37

Junior Year	
Social Sciences (GER)	
Arts (GER)	
Humanities (GER)	
English 332	
Education 310, 423, 424	9
Psychology 206	
Speech 312, 443	7
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Senior Year	
Counseling 400	
Education 355, 401, 416, 475	
Health and Exercise Sciences 150	
Psychology 414	
Special Education 300, 495	
	29

Total	Semester	Hours	13	(
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All incoming freshmen will have to obtain a Master's Degree in disorders of communication (speech, language, hearing disorders and severe language disorders) in order to enter the work force as speech, language, and hearing specialists in the schools of Louisiana.

Second Content Areas

All secondary education programs require a minimum of 19 semester hours credit in a content area complementary to the certification major. These should be chosen in consultation with the departmental advisor. Approved Second Content Areas are:

Business	
Accounting 201	
Business Communication 305	
Business Law 255	
Management 310	
Education Curriculum and Instruction 410	
Education Curriculum and Instruction 445	
Education Curriculum and Instruction 447	
Biology	
9 hours of Science in GER	
Biological Sciences 201	
Biological Sciences 224	
Biological Sciences 310	
Biological Sciences 313	
Chemistry	
9 hours of Science in GER	
Chemistry 100	
Chemistry 101	
Chemistry 102	
Chemistry 103	
Chemistry 104	
Chemistry 121	
Chemistry 122	

Earth Science 9 hours of Science in GER 3 Geology 111 3 Geology 112 1 Geology 121 Geology 122 1 3 Geology 200 **Environmental Science 200** 3 14 English 3 English 201 English 202 3 3 English 332 3 English 336 English 415 3 3 English 413 or 414 or 455 3 English 416 or 417 21 French 3 French 101 3 French 102 3 French 201 3 French 202 3 French 301 3 French 302 3 French 304, 305, 308, 390, 400, 404, 417, 450, 470, 480 (Select 1) 21 Journalism 3 Journalism 101 3 Journalism 102 Journalism 310 3 3 Journalism 320 Journalism 350, 353, 355 (Select 2) 4 Journalism 311, 330, 360, 400, 450, 451 (Select 1) 3 19 Library Science 3 Library Science 201 Library Science 401 3 3 Library Science 402 3 Library Science 403 3 Library Science 405 Library Science 450 3 3 Education Curriculum and Instruction 420 21 Mathematics 3 Mathematics 113 3 Mathematics 240 3 Mathematics 241 3 Mathematics 242 Mathematics 307 3 Mathematics 308 3 Statistics 200 3 21 Physics 9 hours of Science in GER 3 Physics 209 Physics 210 3 3 Physics 220 Physics 230 3 Physics 261 1 Physics 262 1 14 Special Education, Curriculum, and Instruction 3 Education Curriculum and Instruction 400 3 Education Curriculum and Instruction 402 3 Education Curriculum and Instruction 420 3 Education Curriculum and Instruction 440 Education Curriculum and Instruction 472 3 Education Curriculum and Instruction 475 3 19 Speech 3 Speech 300 Speech 211 3 3 Speech 260 Speech 315 3 Speech Theatre 201 3 Speech Theatre 240 3

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Department of Health and Exercise Sciences

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The Department of Health and Exercise Sciences provides opportunities for candidates seeking teaching certification in health and physical education and exercise science options for individuals interested in working in the fields of physical fitness, applied health, or athletics. Twenty-one hours of health and exercise science classes are required with 6 internship hours in professional education, and 6 elective hours from related fields from any college within the University.

The Clinical concentration prepares students seeking careers in physical therapy, occupational therapy, chiropractic, cardiac rehabilitation, and athletic training.

The Health Fitness concentration prepares students seeking careers in health and fitness, sports related areas, and massage therapy.

Health and Physical Education Curriculum (BS) — (Under review—Check with advisor.)

Freshman Year

Freshman Year	
English (GER)	6
Humanities (GER)	
English 201, 202	6
History 201, 202	6
Speech 110 or 377	3
Mathematics (GER)	
Mathematics 101, 125	6
Natural Sciences (GER)	
Biological Sciences 224	
Education 125	1
Health and Exercise Sciences 290	3

Sophomore Year	54
1	
Natural Sciences (GER)	
Physics 205	
Physics 206 or Biological Sciences 130	
Social Sciences (GER)	
Political Science 201	
Psychology 408	3
Computer Literacy (GER)	
Education 310	
Health and Exercise Sciences 202	
251, 292 (PE Elective: Team/Lifetime Sport Series)	11
Health and Exercise Sciences 293, 300, or 350	
Elective (Certification Area)	

	32
Junior Year	
Arts (GER)	
Health and Exercise Sciences 280	3
Natural Science (GER)	
Physical or Biological Sciences	3
Social Sciences (GER)	3
Education 480, 403	6
Health and Exercise Sciences 305, 326, 405	8
Health and Exercise Sciences Team Sports Series	
Health and Exercise Sciences Lifetime Sports Series	
Elective (Certification Area)	3

	30
Senior Year	
Education 401, 416, 475	12
Health and Exercise Sciences 402, 408, 409, 414, 457	
Health and Exercise Sciences Electives	

English (GER)
Arts (GER)
Health and Exercise Sciences 202, 256
Health and Exercise Sciences 290, 292, 300 (select two)
Mathematics (GER)
Math 101
Directed Electives*
Sophomore Year
Humanities (GER)
English 201 or 202
History
Computer Literacy (GER)
Merchandising and Consumer Studies
246, Agricultural Science 201, CIS 101 (select one)
Social Sciences (GER)
Psychology 102
Directed Electives*
Bitester Biestines
@31-32#
Junior Ycar
Health and Exercise Sciences 326, 405, 406, 408, 409
Health and Exercise Sciences 112 (select two section)
Humanities (GER)
English 303
Speech 110 or 377
Directed Electives*
Senior Year
Health and Exercise Sciences 407, 410, 414, 415, 416, 418
Social Sciences (GER)
Psychology 300
Directed Electives*@9-7#
@33-31
Total Semester Hours
@=Hcalth Fitness Concentration 124
#=Clinical Concentration 125
No grade less than C is accentable in English 101, 107 all Health a

No grade less than C is acceptable in English 101, 102 all Health and Exercise Sciences major courses, Biological Sciences 224 or 225, and Speech 377. Varsity Athletics (HES 114, 115, 116, 117) cannot be substituted for HES activities.

*Directed Electives chosen by student in consultation with advisor from one of the following concentrations:

Clinical Concentration Directed Electives

Freshman Year: (8 hours): Natural Sciences (GER) - Biological Sciences 130, 131, 132, 133 (8).

Sophomore Year: (20 hours): Mathematics (GER) - Mathematics 112 (3); Health and Exercise Sciences 257 or 255 (2); Natural Sciences (GER) -Chemistry 100, 101, 102, 103, 104 (8); Biological Sciences 225, 226 (4); Social Sciences (GER) - (3).

Junior Year: (11 hours): Biological Sciences 227, 228, 315 (7); Physics 209, 261 (4).

Senior Year: (7 hours): Physics 210, 262 (4); Psychology 418 (3). This concentration includes all prerequisite course work required for Physical Therapy masters program.

Health Fitness Concentration Directed Electives

Freshman Year: (8 hours) Mathematics (GER) - Mathematics 125; Health and Exercise Sciences 150; Health Information Management 103.

Sophomore Year: (19 hours): Social Sciences (GER) - Economics 215 (3); Health and Exercise Sciences 257, 265, 266, 267 (choose one) (2); Management 201 or 340 (3); Natural Sciences (GER) - Biological Sciences 224 plus (6) additional hours to meet (GER) sequence requirement; Health and Exercise Sciences 255 (2).

Junior Year: (9 hours): Accounting or 201 (3); Food and Nutrition 253 (3); Elective (3).

Senior Year: (9 hours): Health and Exercise Sciences 316 (3); Management 310 (3); Marketing 300 (3).

Requirements for a Minor in Kinesiology and Health Promotion

(For non-Physical Education majors: 22 hours) The following courses are required: Health and Exercise Sciences 202 (3), 256 (2), 326 (3), 405 (2), 407 (3), 408 (3), 409 (1), and two restricted elective courses. Restricted Elective 1: (choose from) Health and Exercise Sciences 316 (3), 406 (3), 410 (3), 414 (3), 416 (3), or Food and Nutrition 253. Restricted Elective 2: (choose from) Health and Exercise Sciences 255 (2) or 257 (2). All courses applied toward the minor must be completed with the grade of **C** or higher.

Requirements for a Minor in Health Education

(For non-Physical Education majors: 23 hours) The courses in the Health Education minor certifies one to teach health education when taken with any major in a teaching certifying curriculum. HES 150, 290, 292, 305 (11 hrs.) and 12 hours from the following classes - six of which must be from 300- or 400-level courses: Biological Science 224, Food and Nutrition 203, 300, Health and Exercise Sciences 292, 293, 300, 350, 408 are required. All courses applied toward the minor must be completed with the grade of C or higher.

Requirements for a Minor in Physical Education

(For Teacher Education majors: 25-26 hours) The Physical Education minor certifies one to teach physical education when taken with any major in a teaching certifying curriculum. The following courses are required: Health and Exercise Sciences 202, 251, 326, 405, 408, and 457; one of the following Health and Exercise Sciences 255, 256, or 257; one of the following Health and Exercise Sciences 265, 266, 267; and any two of the following Health and Exercise Sciences 414, one Lifetime Sport Series course, one Team Sport Series course, and up to two Coaching Techniques classes. All courses applied toward the minor must be completed with the grade of C or higher.

Department of Psychology and Behavioral Sciences

The goals of the Department of Psychology and Behavioral Sciences include providing high quality education to every student, conducting research of the highest quality, and providing service to the university, local, state, and national communities.

The Department offers the following degrees: BA in Psychology and in Special Education, MA in General and in School Counseling, MA in Industrial/Organizational Psychology, MA in Educational Psychology, and PhD in Counseling Psychology.

Psychology Curriculum (BA)

Psychology Curriculum (BA)	
(Does not lead to Teacher Certification)	
Freshman Year	
English (GER)	6
Humanities (GER)	
History 101 or 201	
Speech 110	
Mathematics (GER)	
Mathematics 100 or 101	
Mathematics 112, 125, or 240	
Natural Sciences (GER)	
Biological Sciences 130, 131	4
Psychology 102, 202	6
Health and Exercise Science	

	50
Sophomore Year	
Humanities (GER)	
English 201, 202	
History 102 or 202	
History elective	
Foreign Language	9
Natural Sciences (GER)	
Biological Sciences 224	
Psychology 300, 304, 310	

Junior Year	
Arts (GER)	
English 303, and 336 or 461	
Sociology 201	
Psychology 302, 315, and 320	
Psychology electives*	
Electives	9
	33
Senior Year	
Geography 205 or 290	
Natural Sciences (GER)	
Physical Science	
D 1 1 410 410	6

Psychology 415, 418	
Psychology elective*	
Social Science elective	
Electives	9
Health and Exercise Science	2
	29
Exit Examination	0

Requirements for a Minor in Psychology

Requirements for a Minor in Psychology include 21 hours of Psychology courses consisting of the following: Psychology 102, 202, 300, two additional 300-level and two 400-level Psychology courses. Courses applied toward the minor must be completed with the grade of C or higher.

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Chapter 13 - College of Engineering and Science

Administration

Interim Dean Stanley A. Napper Associate Dean, Undergraduate Studies James D. Nelson Director of Graduate Studies Bala Ramachandran Biomedical Engineering Jenna Carpenter, Academic Director Steven Jones, Program Chair Chemical Engineering. Bill Elmore, Academic Director Ron Thompson, Program Chair Chemistry Bala Ramachandran, Academic Director Dale Snow, Program Chair Civil Engineering Bill Elmore, Academic Director Norm Pumphrey, Program Chair Computer Science Paul Hale, Academic Director Mike O'Neal, Program Chair Construction Engineering Technology Bill Elmore, Academic Director Aziz Saber, Program Chair Electrical Engineering Paul Hale, Academic Director Rob Szlavik, Program Chair Electrical Engineering Technology Paul Hale, Academic Director Bill Ray, Program Chair Geosciences Bill Elmore, Academic Director Gary Zumwalt, Program Chair Industrial Engineering Jenna Carpenter, Academic Director Jun-Ing Ker, Program Chair Mathematics and Statistics Eugene Callens, Jr., Academic Director Bernd Schroder, Program Chair Mechanical Engineering Jenna Carpenter, Academic Director Bill Jordan, Program Chair Physics Bala Ramachandran, Academic Director Steven Wells, Program Chair

Address

More information about the College of Engineering and Science can be obtained by writing: College of Engineering and Science P.O. Box 10348 Louisiana Tech University Ruston, LA 71272 (318) 257-2842 and/or visiting our web site at <u>http://www.cocs.latech.edu</u>

Vision

We will he the college of choice in this region for students in engineering and science.

Mission

- We provide a quality undergraduate and graduate education that responds to the needs and challenges of our ever-changing world, includes an international perspective, and stimulates social and ecological awareness.
- We promote the knowledge, skills, ethics, creativity and critical thinking necessary for professional competence and life-long learning.
- We conduct quality research throughout the college and world-class research in key focal areas.

Guiding Principles

- We consider the success of our students to be the primary standard for our success.
- We will provide an exciting environment that allows all students, faculty, and staff to attain their maximum potential.
- We will exhibit integrity, respect, and dignity in every aspect of our conduct.
- We will instill a spirit of pride, cooperation, and accountability in all that we do.
- We believe that teaching, research, and professional service are mutually supportive in the search for excellence.

History

Engineering education at Louisiana Tech University began in 1895 with a two-year program in Mechanic Arts. In 1910 this program was expanded to a Bacbelor of Industry degree in General Engineering. Four-year engineering curricula developed as follows: 1921-BS in General Engineering; 1927-BS in Mechanical-Electrical and BS in Civil Engineering; 1938-BS in Mechanical and separate BS in Electrical Engineering; 1940-BS in Chemical Engineering; 1948-BS in Petroleum Engineering; 1957-BS in Industrial Engineering; and 1972-BS in Biomedical Engineering.

Other BS degrees developed as follows: 1953-Geology; 1968-Construction Engineering Technology; 1968-Computer Science; and 1972-Electrical Engineering Technology.

In 1996 the School of Science, which included Mathematics, Chemistry, and Physics, was merged with the College of Engineering to form the College of Engineering and Science.

Accreditation

All engineering programs are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET), and both four-year engineering technology programs are accredited by the Technology Accreditation Commission of ABET. The Computer Science program is accredited by the Computing Accreditation Commission (CAC) of ABET.

Undergraduate Degrees

Bachelor of Science degrees are offered in biomedical engineering, chemical engineering, chemistry, civil engineering, computer science, construction engineering technology, electrical engineering, electrical engineering technology, geology, industrial engineering, mathematics, mechanical engineering, and physics.

Dual Bachelor of Science Degrees with Grambling State University

Students at Louisiana Tech University and Grambling State University have the opportunity of simultaneously pursuing two Bachelor of Science degree programs, one at Tech and one at Grambling. Grambling's BS degree in Drafting Technology is coordinated with Tech's BS degree in Civil Engineering. Grambling's BS degree in Electronics Technology is coordinated with Tech's BS degree in Electrical Engineering.

Students who wish to enroll in either of these dual programs may do so by declaring their intentions when applying for admission. Transfer students are allowed to enter these programs at any registration at either of the universities.

To qualify for a BS degree at Grambling and a BS degree at Tech, a student must complete all courses required by the Department of Industrial Education at Grambling and the courses required by the appropriate engineering department at Tech. Courses that are common to both degree programs and that are offered at both universities may be taken at either university.

Minors Offered

Students may earn minors in one of the following areas:

- Chemistry
- Computer Science
- Geology
- Mathematics
- Physics

A student must earn a grade of C or better in each course applied toward meeting the requirement of a minor. This requirement will be applicable to new undergraduate students (freshmen and transfers) whose initial enrollment is Fall Quarter 2003 or quarters thereafter.

Admissions

Students who meet the University admissions criteria will be admitted to the College of Engineering and Science.

Transfer Students

Candidates for admission to the College of Engineering and Science who have studied at another institution of higher education must submit an official record of that study to Louisiana Tech University. This record will be evaluated by the program in which the candidate wishes to major. The evaluation will determine which curricular requirements of the intended program of study at Louisiana Tech have been satisfied by the student's prior study. Students must have an overall grade point average of at least 2.0 out of 4.0 in all courses for which transfer credit is allowed.

Scholastic Requirements

Students in the College of Engineering and Science are subject to the scholastic standards of the University regarding probation, suspension, and readmission. Program chairs may require workload restrictions intended to restore the quality of the student's work to the standards required by the College of Engineering and Science.

Students in the College of Engineering and Science must earn a grade of "C" or better in any math course; any statistics course; ENGR 120, 121, 122; CHEM 100, 101, 103; and PHYS 201 prior to taking courses for which these are prerequisites.

Students on scholastic probation and those returning from a period of suspension are limited to a maximum of 9 semester hours per quarter.

Electives

All electives must be approved by the appropriate program chair.

Credit by Examination

Students of exceptional scholastic achievement are allowed to take subject credit examinations in some of the courses required for a degree. A student in the College of Engineering and Science may earn up to a maximum of 30 semester hours by credit examination. The College of Engineering and Science will not accept any credits earned by passing the CLEP General Examination.

Correspondence Courses

Students in the College of Engineering and Science are permitted to include no more than six semester credit hours of correspondence courses for credit toward graduation in any curriculum. Prior to pursuing the correspondence work, the student must obtain written approval of the Associate Dean for Undergraduate Studies of the College of Engineering and Science. Approval will be granted only for courses in humanities or social sciences. (All English courses are excluded.)

Graduation Requirements

All requirements listed in the General Information section of this Bulletin apply. In addition, a student majoring in a program in the College of Engineering and Science must have at least a 2.0 grade point average in courses bearing the specific rubric of the major program (e.g., computer science, civil engineering). In order to graduate from a baccalaureate program in the College of Engineering and Science, a student must complete 27 of the last 36 hours in the curriculum while enrolled in the College of Engineering and Science.

Ethical Standards

Students in the College of Engineering and Science are preparing to enter a profession which demands high ethical standards of its members. Honesty and high ethical standards are demanded of these students and all others taking courses conducted in the College of Engineering and Science. It is the student's right and responsibility to discourage and report academic misconduct. The failure to do so is a breach of ethical standards.

Academic misconduct is a serious breach of ethics in academic activities, such as examinations, reports, and homework. It may occur in any of the following forms:

- 1. Giving or receiving unauthorized aid;
- Stealing or plagiarizing the substance, work, or ideas of others;
- 3. Lying, using evasive statements, or concealing the truth behind technicalities.

Student-written computer programs and data are not to be shared with other students without the specific authorization of the responsible faculty. Students are responsible for protecting their disks from unauthorized access.

The determination of academic misconduct will be made in accordance with the University's "Academic Misconduct" section of this Catalog.

Repeated occurrences of academic misconduct are specifically contrary to the standards of personal integrity required by the professions connected with the programs in the College of Engineering and Science. Therefore, a stronger penalty may be awarded for repeated commissions of academic misconduct, including dismissal from the College of Engineering and Science.

Undergraduate Research Opportunities

Academically qualified undergraduate students have an opportunity to gain experience on campus by working part-time as a member of a research team including faculty and graduate students. Compensation is competitive with most local employment and entails the major advantage of providing on-campus stimulating work experience to enrich the student's total educational experience. The qualifications required for participating include the following:

- 1. Students must be enrolled in a degree program in the College of Engineering and Science, and must be in good academic standing.
- 2. Students must have an overall grade point average of 3.0 or better.

Students are selected by the faculty responsible for the various research projects offering the employment. Applicants will be considered for suitable employment on research projects throughout the college regardless of the department in which they are enrolled.

The Cooperative Education Program

The College of Engineering and Science is cooperating with certain industrial firms in a plan of alternate periods of work and university study for students in engineering and science. The Cooperative Education Program provides one of the best methods for integrating technical theory and practical industrial experience.

Although the College of Engineering and Science cannot guarantee work or stipulate compensation, an effort will be made to place the students in jobs having the most favorable education and financial possibilities. The Cooperative Education Program will allow the student to have approximately one year of practical experience by the time of graduation. If the student accepts permanent employment with the cooperating company, the necessity for taking special company orientation and training courses after graduation is usually eliminated. The Cooperative Education Program does not obligate the graduate to accept employment with the cooperating company, nor does it obligate the company to offer permanent employment to the graduate.

Each student participating in the Cooperative Education Program is required to register at Louisiana Tech during each work period.

Students from any academic program within the College of Engineering and Science will be considered for participation in the Cooperative Education Program provided they have successfully completed 45 semester credit hours of University work with a grade point average of at least 2.8. Requirements for graduation and the degree earned are the same as those for regular students. Individuals interested in further details should contact the Director of the Cooperative Education Program, College of Engineering and Science, Louisiana Tech University, Ruston, LA 71272.

Student Organizations

The following national organizations have student chapters on campus:

- American Chemical Society
- American Institute of Chemical Engineers
- American Society of Civil Engineers
- American Society of Heating, Refrigeration, and Air Conditioning Engineers
- American Society of Mechanical Engineers
- Association for Computing Machinery
- Associated General Contractors of America
- Association of Business, Engineering, and Science Entrepreneurs
- Association of Electrical Engineering Technologists
- Biomedical Engineering Society

- Institute of Electrical and Electronics Engineers
- Instrument Society of America
- Institute of Industrial Engineers
- Institute of Transportation Engineers
- National Society of Black Engineers
- North American Society for Trenchless Technology
- Society of Automotive Engineers
- Society of Physics Students
- Society of Women Engineers

Student Honor Societies

The following honor societies are available to those students who excel academically and are elected to membership:

- All Engineering--Tau Beta Pi
- All Technology--Tau Alpha Pi
- Biomedical Engineering--Alpha Eta Mu Beta
- Chemical Engineering--Omega Chi Epsilon
- Civil Engineering--Chi Epsilon
- Computer Science--Upsilon Pi Epsilon
- Electrical Engineering--Eta Kappa Nu
- Industrial Engineering--Alpha Pi Mu
- Mathematics--Pi Mu Epsilon
- Mechanical Engineering--Pi Tau Sigma
- Physics--Sigma Pi Sigma

Engineering and Science Scholarships

The following scholarships are administered by the College of Engineering and Science and its individual programs. All scholarships are dependent on availability of funding and subject to cancellation or modification by the sponsor.

- Butros Aukar Memorial Scholarship (Mechanical or Industrial Engineering)
- Associated General Contractors of America Scholarships (Construction Engineering Technology)
- David Michael Baker-Puffer Sweiven, Inc. Memorial Scholarships (Chemical Engineering)
- Ben T. Bogard Scholarship
- Frank Bogard Scholarship
- Robert V. Byrd Scholarship
- Ronald E. Cannon Endowed Scholarship
- Chemical Engineering Scholarships
- Chevron Scholarship (Mechanical Engineering)
- Civil Engineering Scholarships
- Loyd Ray Click Memorial Scholarship
- Edward C. Darling Endowed Memorial Scholarship (Civil Engineering)
- Desk and Derrick Club Scholarship (Geosciences)
- Dow Chemical Outstanding Junior Chemical Engineering Award (Chemical Engineering)
- Charlie Earl Schotarship (Mechanical Engineering)
- Eastman Minority Scholarships
- Eastman Scholars Award (Chemical Engineering)
- Engineering Alumni Scholarships
- Oliver Woodrow Fisher Memorial Scholarships (Construction Engineering Technology, Electrical or Mechanical Engineering)
- Ben F. Freasier Memorial Scholarship (Chemistry)
- Buford Echols Gatewood Scholarship (Mechancial Engineering)
- Thomas Harper Goodgame Scholarship
- J. R. Harrelson Memorial Engineering Scholarship
- Mendal Heller Memorial Scholarship (Mechanical Engineering)

- Mark David Hill Scholarship (Mechanical Engineering)
- David E. Hogan Endowed Scholarship
- John R. Horton Scholarship (Mechanical Engineering)
- Kaiser Aluminum Company Minority Scholarships (Chemical or Mechanical Engineering)
- Thomas E. Landrum Memorial Scholarship (Biomedical Engineering)
- Lazenby and Associates Scholarship (Civil Engineering)
- McDermott Incorporated Scholarships (Civil Engineering)
- Robert E. McFadden Endowed Scholarship
- R. A. McFarland Memorial Scholarship (Civil Engineering)
- Mechanical Engineering / Industrial Engineering Scholarship
- Mercedes Benz Scholarship (Mechanical Engineering)
- Pipes Foundation Scholarship
- H. E. Ruff Physics Scholarship
- Donald Ruffin Endowed Scholarship
- Maryanne Scogin Memorial Scholarship (Chemical or Mechanical Engineering)
- Roy T. Sessums Memorial Scholarships (Civil, Electrical, or Mechanical Engineering)
- Dr. and Mrs. P. K. Smith, Sr. Endowed Scholarship Fund (Mathematics)
- Harrell R. and Lenore S. Smith Scholarship
- Henry E. and Margaret A. Stamm Scholarship
- Harry Talbot Scholarship
- Jack Thigpen Scholarships (Mechanical Engineering)
- Cengiz Topakoglu Outstanding Biomedical Engineering Student Scholarship
- Bruce Tucker Memorial Scholarship (Construction Engineering Technology)
- Charles G. Tullis Scholarship
- Roy Wayne Vining-Dow Chemical Company Memorial Scholarship (Chemical Engineering)
- Calvin Watts Scholarship (Civil Engineering)
- Whetstone Scholarships (Mechanical Engineering)
- C. C. Whittelsey Scholarship
- Thomas J. and Elizabeth B. Wilson Scholarship
- Samuel McCain Young Memorial Scholarship (Civil Engineering)

Bachelor Degree Programs

Biomedical Engineering

Biomedical engineering is formally defined as the application of engineering skills, principles, and tools to problems in biology and medicine. The undergraduate program at Louisiana Tech University combines the practical aspects of engineering with biology and medicine to produce an engineer capable of solving special kinds of problems. Biomedical engineers are alert and sensitive to the challenges of designing and using products for living systems and of studying these systems. The program provides medical and biological instruction in typical premedical courses (e.g., general biology, anatomy, physiology, organic chemistry) and engineering instruction in fundamental engineering courses. The biological training is integrated with the engineering training by means of a series of coordinated biomedical engineering courses taught at the sophomore, junior, and senior academic levels. In order to provide depth and focus in technical abilities, students select one of the following concentrations: chemical engineering, electrical engineering, mechanical engineering, computer information, or premedical.

Internships are available in both clinical and industrial environments. Interns experience breadth of interactions, procedures, and technology, and they complete significant engineering projects.

Biomedical engineers are working in many rewarding areas: for example, design and construction of artificial internal organs; design and application of the electronics and instrumentation associated with hospital operating rooms, intensive care units, and automated clinical laboratories; development and instrumentation of biomedical computer systems; the functional rehabilitation of disabled persons through appropriate application and development of technology; clinical engineering; aerospace medicine and life science; basic research using engineering analysis principles aimed at understanding the basic mechanisms that regulate the human body. Employment opportunities for biomedical engineers exist in hospitals, rehabilitation engineering centers, national research foundations, governmental research institutions and agencies (e.g., NASA and FDA), chemical companies, pharmaceutical companies, hospital products companies, medical instrumentation and computer companies, orthopedic implant companies, and aerospace life science companies. Also, entrepreneurial activity in the health-related industries is prospering. Innovative medical and health care products can be manufactured and marketed by resourceful biomedical engineers. In industry, Louisiana Tech engineering graduates are responsible for biomedical manufacturing, quality control, research and development, management, and marketing.

One special feature of the Biomedical Engineering Program is that, upon or before graduation, students may complete the basic requirements necessary for admission to medical school. The program provides a strong quantitative background for one who wishes to pursue a future medical career. Another feature of the program is that, upon completion of the Biomedical Engineering degree program in any of the specialties, the student will be adequately prepared to continue his/her education at the graduate level by pursuing a Master of Science and/or the Doctor of Philosophy degree in Biomedical Engineering. Continued professional education in business, law, and the basic medical sciences is also possible.

Biomedical Engineering Program Educational Objectives

- To prepare graduates for employment as biomedical engineers, for graduate study in engineering or science or business, and for medical school. Career opportunities will include, but will not be limited to, clinical engineering, aerospace biomedical engineering, clinical practice as a physician, or any sector of the medical device industry. Our graduates will receive specific technical training in one of the following four areas: chemical engineering, electrical engineering, mechanical engineering, or pre-medical studies.
- To prepare graduates with skills that will enable them to be immediately productive in their chosen career. These tools include a knowledge of contemporary topics in medical technology, design experience, and professional experience appropriate to their post-graduation goal.
- To produce graduates who communicate effectively, who understand and undertake professional responsibilities, and who function effectively as members and leaders of multidisciplinary teams.
- To produce graduates who believe that their undergraduate biomedical engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

The curriculum in Biomedical Engineering is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

Biomedical Engineering Curriculum (BS)

Freshman Year

Combonne Voor

Natural Sciences (GER)	
Chemistry 100, 101, 102, 103, 104	
English (GER)	e
Mathematics (GER)	
Mathematics 240, 241, 242	9
Engineering 120, 121, 122	
Physics 201	

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Junior Year	
Arts (GFR).	
Humanities (GER)	
English 201 or 202, and 303	
Speech 377	
Biomedical Engineering 225, 301, 325, 401, 425	
Biological Science 321	
Directed Electives*	

	34
Senior Year	
Social Sciences (GER)	9
Humanities (GER)	
History	3
Biomedical Engineering 400, 402, 403, 404, 430, 435	
Directed Electives	7
	31

The Biomedical Engineering Program requires a "C" or better in any course in the College of Engineering and Science prior to taking courses for which these are prerequisites.

*Directed Electives chosen by students in consultation with faculty advisor from one of the following concentrations:

- <u>Pre-Medical</u>**: Chemistry 250, 251, 252, 253, 254; Physics 261, 262: One 3 hr. 300- or 400-level elective in one of the engineering programs.
- <u>Chemical Engineering</u>: Chemical Engineering 213, 313, 353, 413, and one 3 hr. Chemical Engineering*** course at 300- or 400-level.

<u>Computer Information</u>: BIEN 310, CSC 120, 220; 3 hours taken from CSC, CIS, or HIM at 300- or 400-level, with approval of advisor, 1 hr. lab elective with approval of advisor.

<u>Electrical Engineering</u>: Electrical Engineering 232, 242, 311, 335, one 3 hr. Electrical Engineering*** course at the 300- or 400-level.

<u>Mechanical Engineering</u>: Mechanics and Materials 201, 211, 312, Mechanical Engineering 215, and two additional 3 hr. Mechanical Engineering *** courses at 300- or 400-level.

**Students who wish to apply to medical school should be aware that they will need an additional course in Biological Sciences to meet medical school entrance requirements.

***An approved Biomedical Engineering course appropriate to this track may he substituted with consent of the student's advisor.

Chemical Engineering

The primary task of chemical engineers is the design of industrial processes that chemically transform various natural resources into more useful and valuable products. These products range from paper and gasoline to medicines and computer microchips. The chemical engineer is constantly concerned with improving these processes to best conserve resources (including capital) while preserving and protecting the environment. The education of the chemical engineer covers advanced chemistry, physics, mathematics, general engineering, computer applications, material balances, energy balances, chemical equilibria, thermodynamics, kinetics and reactor design, unit operations and transport processes, and process control, with laboratorics emphasizing these areas along with oral and written communication skills.

In order to meet current career interests and opportunities, elective courses are offered in nuclear applications and safety, industrial waste treatment, specialized computer techniques (including artificial intelligence), polymer engineering, pulp and paper processes, biochemical engineering, and fire and process safety.

The graduate in chemical engineering is particularly versatile. Industrial work may involve the production, operations, customer service, sales, or research departments of industries producing semiconductors, microchips, metals, paper, petroleum, petrochemicals, plastics, forest products, pharmaceuticals, or foods or the technical service or process improvement sections of such industries. Meaningful careers are also available with governmental agencies or private foundations associated with space, energy, and the environment. Graduate education in medical school, dental school, business school, law school, and chemical engineering are viable alternatives. At the undergraduate level, the purpose of the program is to provide a strong basic education such that the graduate will be prepared for all these options.

Chemical Engineering Program Educational Objectives

- To prepare students for success and lifelong learning in their chemical engineering careers.
- To train students to develop skills in creative thinking, teamwork, problem solving, and chemical engineering design.
- To teach methods of problem analysis and solution techniques including math and computational skills appropriate to the chemical engineering profession.
- To train students in experimental methods and data analysis appropriate for chemical engineering applications.
- To engage students in the training and practice of technical oral and written communication.
- To permeate our educational program with an emphasis on the professional and ethical practice of chemical engineering both by example and explicit instruction.

The program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology. Graduates of this program are encouraged to become registered professional engineers.

Chemical Engineering Curriculum (BS)

Freshman Year	
Natural Sciences (GER)	
Chemistry 100, 101, 102, 103, 104	8
English (GER)	6
Mathematics (GER)	
Mathematics 240, 241, 242	9
Engineering 120, 121, 122	6
Social Sciences (GER)	3
	- 37
Sonhomore Year	32
Sophomore Year Engineering 220, 222	
Engineering 220, 222	6
Engineering 220, 222 Chemical Engineering 202, 213, 254 Chemistry 250, 251, 252, 253	
Engineering 220, 222 Chemical Engineering 202, 213, 254 Chemistry 250, 251, 252, 253	
Engineering 220, 222 Chemical Engineering 202, 213, 254	

Junior Year	
Humanities (GER)	
English 201 or 202, and 303	6
History	3
Social Sciences (GER)	
Chemical Engineering 304, 313, 332, 353, 413	
Chemistry 311, 313	4
Engineering 221	3
	32

	24
Senior Year	
Arts (GER)	3
Natural Sciences (GER)	
Biological Sciences 101	
Social Sciences (GER)	
Chemical Engineering 402, 407, 430, 432, 434, 451	
Directed Elective*	6
Humanities (GER) Speech 377 or English 463	
	31

Total Semester Hours

(GER): General Education Requirement (pg. 14)

The Chemical Engineering Program normally requires a "C" or better in any course in the College of Engineering and Science prior to taking courses for which these are prerequisites.

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*Directed Electives chosen by student in consultation with faculty advisor from courses offered in the College of Engineering and Sciences or the College of Applied and Natural Sciences. All electives must be approved by the Chemical Engineering Program Chair.

Chemistry

The chemistry curriculum offers a broad background in chemistry and results in a degree which is approved by the American Chemical Society. Students who complete the curriculum without substitutions are eligible for Certification to the ACS. A grade of C or better is required for all Chemistry courses. Students entering this program generally plan to pursue a career as an industrial chemist or to attend graduate school with a speciality in one of the major areas of chemistry (analytical, inorganic, organic, or physical).

Students who are interested in pre-medicine, pre-dentistry, or biochemistry may make the following substitutions:

Physics 209, 210 for Physics 201, 202; Humanities elective for English 303; Biological Sciences 131, 132, 133 and either 260 or 290 for Math 244, 245, 308; Biological Sciences 310 for Technical Elective; Biological Science 315 or 422 for Chemistry 481; Chemistry 352, 353, 354, and one semester hour of science elective for Chemistry 409 or 420 or 424 (any two).

Chemistry Curriculum (BS)

Freshman Year
Chemistry 100, 101, 102, 103, 104
English (GER)
Mathematics (GER)
Mathematics 240, 241, 242
Social Science (GER)
Natural Sciences (GER)
Biological Sciences 130
32
Sophomore Year
Chemistry 205
Chemistry 250, 251, 252, 253, 254
Chemistry 281
Mathematics 243
Natural Sciences (GER)
Physics 201, 202, 261, 262
Arts (GER)
29
Junior Year
Chemistry 311, 312, 313, 314

Chemistry 390	1
Humanities (GER)	
English 201 or 202 and 303	6
Mathematics 244, 245, 308	
Technical Elective*	3
-	30
Senior Year	
Chemistry 466, 481	7
Chemistry 409 or 420 or 424** (any two)	6
Chemistry 498***	3
Chemistry 490****	1
Humanities (GER)	
History	3
Speech 110 or 377	3
Social Sciences (GER)	3
Electives	
C	30

(GER): General Education Requirement (pg. 14)

*Technical electives must be selected in consultation with a faculty advisor. MATH 313 is recommended.

**In addition to the ACS core curriculum (Chemistry 466 and 481 are part of the core), the ACS certified BS requires six hours of 400-level courses that require Physical Chemistry (Chemistry 311, 312) as a prerequisite. If Chemistry 498 is used as a 400-level class for ACS certification, a written report that meets ACS standards for undergraduate research is required.

***Each senior student must conduct an undergraduate research Capstone Project which demonstrates integration and synthesis of chemistry skills. The duration of the Capstone Project must be two or more quarters.

****Each senior student must submit a Career Portfolio notebook that documents major aspects of chemistry training and experience.

Requirements for a Minor in Chemistry

A minor in chemistry consists of Chemistry 250, 251, 252, 253, and 254 and eleven additional hours of chemistry, of which eight must be 300 - or 400-level.

Civil Engineering

Civil engineers are in the forefront providing constructive counsel on matters vital to mankind and the environment. Civil engineers are primarily responsible for planning, designing, and constructing all the world's constructed facilities. Most people can only talk about solving traffic congestion, environmental pollution, droughts, and floods. Civil engineers help to eliminate or greatly reduce the destructive effects of these events.

Accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, the curriculum in civil engineering is designed to produce graduates who have the background necessary for the practice of civil engineering and the capacity for further development of mind and character to assume the highest responsibilities of citizenship and of professional engineering.

The up-to-date curriculum provides the fundamentals of engineering and teaches the application of those fundamentals in engineering analysis and design. It also helps the student acquire the ability to communicate, to develop a personal value system, and to have a sense of social responsibility and concern for the needs and welfare of mankind and the environment. Well-equipped laboratories for environmental engineering, hydraulics, materials testing, soil mechanics, structural testing, surveying, and transportation. enhance the classroom lectures.

The student will gain some competence in all of the following areas with emphasis on at least one: structural design, environmental engineering, hydraulics, hydrology, surveying, transportation, soil mechanics, highways, and materials.

Civil Engineering Program Educational Objectives

- To develop the skills required to design civil engineering systems including the students' abilities to formulate problems, to think creatively, to synthesize information, and to work collaboratively in teams. The civil engineering program at Louisiana Tech University will concentrate undergraduate instruction in areas of water resources/ environmental, structures, transportation, and geotechnical engineering.
- To train students thoroughly in methods of analysis, including the mathematical and computational skills appropriate for civil engineers to use when solving problems.
- To prepare students for life-long learning and successful careers as civil engineers.
- To teach students to use current experimental and data analysis techniques for civil engineering applications.
- To develop oral and written communication skills that allow students to present information effectively.
- To instill in our students an understanding of their professional and ethical responsibilities.

Civil Engineering Curriculum (BS)

Freshman Year	
Natural Sciences (GER)	
Chemistry 100*, 101*, 103*	
Physics 201*	
English (GER)	
English 101, 102	
Humanities (GER)	
History	
Mathematics (GER)	
Mathematics 240*, 241*, 242*	
Engineering 120*, 121*, 122*	
32	

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        Sophomore Year

        Humanities (GER)

        English 303, 463

        Civil Engineering 202, 254

        4

        Engineering 220*, 221, 222

        9

        Mathematics 243*, 244*, 245

        9

        Mechanics and Materials 201, 211*

        4

        Physics 202

        3
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	35
Junior Year	
Arts (GER)	
Natural Sciences (GER)	
Biological Sciences 101	
Social Sciences (GER)	
Civil Engineering 310, 324, 332, 333, 340, 342, 343	
Mechanics and Materials 312, 313*	

Senior Year	
Humanitics (GER)	
English 201 or 202	
Social Sciences (GER)	6
Civil Engineering 314, 325, 411 or Structural Analysis and	
Design course, 439, 492, 493, 494	14
Directed Electives**	6
	29

*Grade of "C" or higher required.

**Directed Electives chosen by student in consultation with faculty advisor and approved by the Civil Engineering Program Chair.

Construction Engineering Technology

The program prepares the graduate for the responsibilities of managing and supervising all of the activities related to converting the plans and specifications prepared by engineers and architects into finished facilities. With increasing demand for economical service and continuous quality improvement, the construction industry continues to improve its technology as well as its management efficiency.

The program provides technical and managerial education in that field of construction most closely aligned with engineering, with a particular emphasis on highway, heavy, and underground construction. It is in many ways similar to civil engineering but has the following major differences:

- Emphasis is on practical application of engineering science rather than upon the comprehensive understanding of the scientific theories.
- Considerable time is devoted to management and business administration courses.
- Less time is devoted to mathematics and the sciences.

Graduates of this program are qualified to fill many professional positions in governmental agencies, industrial concerns, manufacturing companies of construction supplies and equipment, and in construction firms. These jobs may involve contract supervision, intermediate managerial responsibilities, inspection or sales, as well as the supervised design of construction projects. The undergraduate business and management training prepares graduates to move up the executive ladder to success.

On occasion courses in construction are shared with the Construction programs at Grambling State University and the University of Louisiana at Monroe.

The Construction Engineering Technology Program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone: (410) 347-7700.

The Construction Engineering Technology Program at Louisiana Tech University will

- Prepare graduates to apply engineered construction principles in the construction process, with a focus on the knowledge and skills needed for the heavy-highway, underground utility, and building structural frame construction segments of the industry.
- Prepare graduates for successful careers in the construction field by providing them with the appropriate technical background, strong communication skills, a sense of professional, ethical, and societal responsibilities, and tools for life-long learning.

Construction Engineering Technology Curriculum (BS) Freshman Year

rreshman year Natural Sajanoos

Natural Sciences (GER)
Biological Sciences 101
Biological Sciences 101
English (GER)
English 101, 1026
Mathematics (GER)
Mathematics 101, 112
Business Law 255
Civil Engineering 254
Civil Technology 100
28
Sophomore Year
Humanities (GER)
English 303
Natural Sciences (GER)
Physics 210, 262

Social Sciences (GER)
Economics 215
Social Sciences courses
Micro Computer Applications Electives (GER)
Mathematics 220
Mechanics and Materials 206
Statistics 200
Accounting 201
Architecture 380
Electrical Engineering Technology 2741

	34
Junior Year	
Humanities (GER)	
Speech	
Management 310 plus an additional management course	
Chemistry 120	
Civil Engineering 357, 438, 439	7
Civil Technology 372, 373, 471, 473	
Industrial Engineering 300	

24

30

	33
Senior Year	
Arts (GER)	
Humanities (GER)	
English 201 or 202	
History	
Civil Engineering 436, 437	6
Civil Technology 210, 424, 475, 492	9
Directed Electives*	6

*Directed Electives chosen by student in consultation with faculty advisor and approved by the Construction Engineering Technology Program Chair.

Computer Science

Computer Science is primarily concerned with the study of algorithms and the data structures on which they operate. Topics of interest include problem analysis; algorithm design, implementation, and testing; the definition of programming languages and the construction of environments for creating software; the study of computing hardware; the human/computer interface; and the development of formal techniques for characterizing algorithm efficiency.

The computer science curriculum at Louisiana Tech is designed to provide students with a general education in mathematics, science, and the humanities; an in-depth study of computing, including the practical and theoretical aspects of both hardware and software; and an opportunity for graduate study or a challenging position in industry. Because of the rapid pace of change in the field, the program places primary emphasis on fundamental computing concepts.

The Computer Science program is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone: (410) 347-7700.

Computer Science Curriculum (BS)

Freshman Year	
Natural Sciences (GER)	19 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
Biological Sciences 130, 131	4
English (GER)	6
Humanities (GER)	
History	
Mathematics (GER)	
Mathematics 240, 241, 242	9
Computer Sciences 100, 120, 220	

Sophomore Year
Arts (GER)
Social Sciences (GER)
Economics 215
Additional Social Science course
Natural Sciences (GER)
Physics 201, 202, 261, 262
Mathematics 311
Computer Science 230, 240, 251, 265, 269
32
Junior Year
Humanities (GER)
English 303
English (Literature)
Speech 377
Computer Science 310, 325, 330, 345, 364
Directed Elective*
Mathematics/Science
Minor/Support Area**
33
Senior Year
Social Sciences (GER)
Computer Science 404
Statistics 405 or Industrial Engineering 400
Directed Electives*
Computer Science
Minor/Support Area**
30
Total Semester Hours

(GER): General Education Requirement (pg. 14) *Directed Electives chosen by student in consultation with faculty advisor

and approved by the Computer Science Program Chair.

**All computer science majors are required to complete a minor in another discipline. The Computer Science Program Chair must approve the minor subject. After the requirements for a minor have been met, the balance of the minor/support area courses should be chosen from science, mathematics, engineering, computer science, or approved business courses. Subject to the approval of the Computer Science Program Chair, students who complete a second bachelor's degree may use that degree to satisfy the minor requirement.

Requirements for a Minor in Computer Science

Students in other departments who wish to minor in computer science are required to take 21 semester hours of computer science courses consisting of Computer Science 100, 120, 220, 325, and nine additional hours (six of which must be at the 300-level or above).

Electrical Engineering

Electrical Engineering is that profession which deals with the application of the fundamental laws of electrical phenomena to the service of mankind. Broadly, electrical engineers are involved in one or more of the following areas: electromagnetics; the design of electronic and solid-state devices; the control, conversion, and distribution of energy; computing and data processing; and communications, including transmission and retrieval.

Electrical Engineering Program Educational Objectives

- Depth. To produce graduates who have a fundamental knowledge needed for the practice, or advanced study in, electrical engineering. Our graduates will receive an emphasis in at least two of the following four application areas: electric power, communications, controls, and microelectronics.
- Breadth. To produce graduates who have a broad education necessary for productive careers or the pursuit of graduate education, including a knowledge of important current issues in electrical engineering.

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- Professionalism. To produce graduates who have strong communications skills, who understand and undertake professional ethical responsibilities, and who function effectively as members and leaders of multi-disciplinary teams.
- Lifelong Learning. To produce graduates who believe that their undergraduate electrical engineering education was a wise investment and who continue to develop their knowledge and skills after graduation.

The curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC-ABET). Graduation from an EAC-ABET accredited program is one of the requirements for qualifying as a Registered Professional Engineer in Louisiana as well as most other states. If, in addition to meeting the minimum requirements established for an EAC-ABET accredited curriculum, a graduate has maintained a relatively good scholastic record, the graduate may qualify for further study in the advanced degree program.

Electrical Engineering Curriculum (BS)

Freshman Year	
English (GER)	4
Mathematics (GER)	0
	0
Mathematics 240, 241, 242	9
Natural Sciences(GER)	-
Biological Science 101	
Physics 201	
Chemistry 100, 101, 103	
Engineering 120, 121, 122	6
	·
	32
Sophomore Year	
Humanities (GER)	
History	3
Natural Sciences (GER)	
Physics 202	
Social Sciences (GER)	3
Engineering 220, 221, 222	9
Mathematics 243, 244, 245	9
Electrical Engineering 232, 311	4
	31
Junior Year	
Humanities (GER)	
English 201 202	~

English 201 or 202	
Social Sciences (GER)	
Industrial Engineering 300	2
Electrical Engineering 223, 242, 321, 334, 335, 381, 411	21
Mechanical Engineering 292	3

	32
Senior Year	
Arts (GER)	
Humanities (GER)	
English 303, 463	6
Social Sciences (GER)	3
Electrical Engineering 406, 407, 408, 422	
Directed Electives*	6
Electrical Engineering Senior Option**	
	33

**Electrical Engineering Seniors are required to complete two groups of courses (total 8 hrs.) selected from the following three groups: Electrical Engineering 461(3) and 469(1) Electrical Engineering 471(3) and 479(1) Electrical Engineering 481(3) and 489(1)

Electrical Engineering Technology

The increasing complexity of industrial processes and the expansion in research and production have created demand for a new group of specialists known as engineering technologists. These technologists work with professional engineers and scientists or assume independent responsibility in the production, installation, operation, and maintenance of complex technical apparatus. The engineering technologist organizes the personnel, materials and equipment to design, construct, operate, and manage technical projects. The engineering technologist coordinates people, materials, and machines and must possess a variety of skills and practical and theoretical knowledge.

Electrical engineering technology includes the areas of computers, electrical power, communications, instrumentation, and control systems. The program combines course work and coordinated laboratory work so that graduates will be capable of performing a variety of technical tasks demanded of them. The course and laboratory work emphasize the latest in solid-state and integrated circuit and microprocessor technology. The graduate will also have received training in technical writing, public speaking, documentation, and general industrial practices which result in rapid advancement in a typical industrial organization. Thus, the program produces graduates qualified for a wide variety of commercial and industrial employment in the rapidly developing electrical-electronics technology field.

The program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 – telephone: (410) 347-7700.

Electrical Engineering Technology Program Educational Objectives

- To develop the technical skills needed for professional positions in electrical, electronic and related industries
- To educate the students in methods of analysis, including mathematical and computational methods, needed to solve problems as electrical engineering technologists
- To prepare students for lifelong learning and successful professional careers
- To develop oral and written communication skills that allow graduates to present information effectively
- To instill an understanding of professional, ethical and societal responsibilities

Electrical Engineering Technology Curriculum (BS)

Electrical Engineering Technology Curriculum (BS)
Freshman Year
Arts (GER)
Computer Literacy (GER)
Computer Science 100
English (GER)
Humanities (GER)
History
Mathematics (GER)
Mathematics 101, 1126
Electrical Engineering Technology 100, 170, 171, 180, 181
30
Sophomore Year
Natural Sciences (GER)
Physics 209, 210, 261, 262
Mathematics 220, 223
Electrical Engineering Technology 260, 261, 270, 271, 272, 273,
280, 284, 285
280, 284, 285
Junior Year 33
Junior Ycar Humanities (GER)
Junior Year 33

Social Sciences (GER)	.3
Chemistry 100, 101, 103	
Engineering Mechanics 206	
Electrical Engineering Technology 360, 361, 370, 371, 390	
Engineering Elective	
	31
Senior Year	
Natural Sciences (GER)	
Biological Sciences	.3
Humanities (GER)	
Speech 377.	.3
Social Sciences (GER)	.6
Electrical Engineering Technology 460, 461, 465, 470, 471, 472	
Directed Electives*	
Electrical Engineering Technology	.4
Additional Course	.3
	30
	20
Total Semester Hours	24
(GER): General Education Requirements (pg. 28)	

*Directed Electives chosen by student in consultation with faculty advisor and approved by the Electrical Engineering Program Chair.

Geosciences

Geology is a diverse field that encompasses many areas of specialization such as environmental geology, geochemistry, hydrogeology. mineralogy, geophysics, oceanography. paleontology, petrology, petroleum geology, sedimentology, stratigraphy, and structural geology. These fields touch every facet of modern civilization and economic development from the discovery and development of mineral resources to the identification and remediation of environmental problems to the more exotic exploration of the moon and planets. There are numerous employment opportunities available for geologists with petroleum, mining, and environmental industries, U.S. Army Corps of Engineers, U.S. Navy, National Park Service, NASA, and other branches of local, state, and federal government.

The geosciences curriculum, leading to the Bachelor of Science degree in geology, is designed to give students a broad and fundamental education in geology with a background in mathematics, physics, chemistry, and technical writing. There is enough flexibility to allow students to earn a minor in diverse areas such as technical writing, chemistry, and business. The curriculum is designed for those students planning for a professional career in geology, the earth sciences, or an advanced degree.

Geology Curriculum (BS)

Freshman Year Natural Sciences (GER) Humanities (GER) Literature Mathematics (GER) Sophomore Year Natural Sciences (GER) Geology 209, 211, 318......9

Humanities (GER)	
History	
Mathematics 220	
Physics 209, 210, 261, 262	
Forestry 355	

Junior Year	
Arts (GER)	
Humanities (GER)	
English 303	
Geology 302, 303, 305, 315, 316	
Geology 320 (Summer Field Camp/Internship)**	
Agricultural Sciences 320 or Statistics 200	
Social Sciences (GER)	
Social Sciences (UEK)	
32	
Senior Year	
Geology 422, 460	
Humanities (GER)	
Speech 377 or English 463	
Social Sciences (GER)	
Directed Electives***	
29	
29	
Total Semester Hours	
(GER): General Education Requirement (pg. 14)	
*Must achieve a C or better in each of these courses to advance.	
**Must be approved by student's advisor prior to internship.	
***Directed Electives chosen by student in consultation with fac	alta
advisor.	inty
auvisor.	

Requirements for a Minor in Geology

A minor in geology consists of Geology 111, 112, 121, 122, and 13 additional hours, at least 9 of which must be at the 300 or 400 level.

Industrial Engineering

Industrial engineering involves decision-making related to the best use of people, material, equipment and energy to achieve the goals of an organization. The organization may be a manufacturing facility, hospital, bank, amusement park, airline, government office, or any other group organized to make a product or perform a service. Industrial engineers make significant contributions to their employers by saving money while making the workplace better for fellow workers.

If there is one phrase that summarizes the activities of industrial engineers, it is "the search for a better way." For example, a better way to make workplaces more comfortable and safer by improving workstations and work procedures, a better way to perform assembly operations using robots and machine vision systems, a better way to reduce inventory cost using just-in-time technology, a better way to assure product quality by statistical process control techniques, a better way to improve the efficiency of the entire organization by a computerized enterprise resource planing system, and so on.

Manufacturing firms and service industries hire a significant number of industrial engineers. Today, more and more businesses hire industrial engineers in areas like computer information systems, business operations, finance, and sales and marketing. Corporations as diverse as Coca Cola, UPS, Disney, IBM, Entergy, Nike, The Gap, Intel, Microsoft, Motorola, Boeing all use people with industrial engineering backgrounds to help manage their business. Many industrial engineers enter the workforce as engineers but eventually move up to the upper level of management.

The industrial engineering curriculum has been developed to prepare students for meaningful careers in this challenging and important branch of engineering. The success of the program is evidenced by the high demand for its graduates in all sectors of the economy and the many professional accomplishments of the faculty.

Industrial Engineering Program Educational Objectives

· To produce graduates that can use the techniques, skills, and modern engineering tools for successful industrial

31

32

engineering careers that support local/regional/national economy

- To produce graduates who can design and integrate systems with machines, people, materials, and information for productivity, quality and work environment improvements
- To produce graduates with effective written and oral communication skills
- To produce graduates who can work collaboratively in teams and understand their professional and ethical responsibilities
- To produce graduates capable to continue into graduate program and/or life-long learning

The program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC-ABET). Graduates of this program are qualified to pursue registration as a Professional Engineer in Louisiana as well as most other states.

Industrial Engineering Curriculum (BS)

Freshman Year

Natural Sciences (GER)	
Chemistry 100*, 101*, 103*	5
English (GER)	6
Mathematics (GER)	
Mathematics 240*, 241*, 242*	9
Engineering 120*, 121*, 122*	6
Physics 201*	3
Industrial Engineering 101	3

Sophomore Year	
Natural Sciences (GER)	
Biological Sciences 101	
Physics 202 or Chem 102 and 104	
Engineering 220, 221, 222	9
Industrial Engineering 300, 301	
Mechanical Engineering 215, 351	
Mechanic and Materials 201	
Mathematics 243*. 244*. 245	

Junior Year	55
Humanitics (GER)	
English 303, 463	6
History	3
Industrial Engineering 400, 401, 402, 404, 405, 407, 409	21
Mechanical Engineering 321	2

	32
Senior Year	
Arts (GER)	3
Social Sciences (GER)	9
Humanities (GER)	
English 201 or 202	
Industrial Engineering 408, 410, 411, 412	10
Directed Electives**	6

Total Semester Hours	
(GER): General Education Requirement (pp. 14)	

*Grade of "C" or higher required.

**Directed electives chosen by student in consultation with faculty advisor and approved by the Industrial Engineering Program Chair.

Mathematics and Statistics

Mathematics and statistics courses are designed as follows: (1) to provide mathematics courses in the core curriculum; (2) to serve the requirements of students pursuing a curriculum in business, education, engineering, etc.; and (3) to provide students majoring in mathematics a thorough preparation for graduate mathematics or employment in industry or education. This program leads to the degree of Bachelor of Science.

Requirements for a Major in Mathematics

Each student majoring in mathematics is assigned an advisor from the Mathematics and Statistics program. The student is requested to meet with his/her advisor at least once during each quarter, at which time courses for the following quarter are decided upon.

Each mathematics major must complete the mathematics curriculum which follows with a grade of 'C' or higher in all mathematics and statistics courses, and must complete a minor. The minor subject must be chosen with the approval of the student's advisor. The minor requirements are listed under the department concerned.

Students who wish to obtain a more intensive degree program with a concentration in statistics-mathematics-engineering are not required to declare a minor if they earn 21 additional semester hours credit in mathematics, statistics, or engineering courses which are approved by the student's advisor. Note: No course may count toward the required mathematics and statistics courses in the mathematics curriculum and also the statistics-mathematicsengineering concentration.

Mathematics Curriculum (BS)

Freshman Year
Natural Sciences (GER)
Chemistry 100*, 101*, 102, 103*, 104
English (GER)
Mathematics 240*, 241*, 242*
Humanities (GER)
History 101, 102, 201, or 202
29
Sophomore Year
Computer Literacy (GER)
Computer Science 120
Social Sciences (GER)
Mathematics 243*, 244*, 245*
Physics 201*, 202, 261*, 262
Humanities (GER)
English 201 or 202
Electives for Minor/Concentration*
32
Junior Year
Arts (GER)
Foreign Language***
Mathematics 307*, 308*
Mathematics or Statistics Elective**
Natural Sciences (GER)
Biological Sciences
Electives for Minor/Concentration*
33

Senior Year	
Humanities (GER)	
English 303	
Speech 110	3
Mathematics 318*, 340*	6
Mathematics or Statistics Elective**	6
Electives for Minor/Concentration*	6
Science Elective	

32

33

31

Social Sciences (GER)	3
	30
Total Semester Hours	124

(GER): General Education Requirement (pg. 14)

*Grade of C or higher required

**Mathematics electives above 300, Statistics electives above 200 (other than STAT 402). Grade of C or higher required.

***Can be replaced by 6 semester hours of courses which are approved by the student's advisor and are at or above the 300 level in English, mathematics, or the student's minor/concentration.

Requirements for a Minor in Mathematics

Students in other departments who wish to minor in mathematics are required to take Math 242, 243, 244, 245 and an additional 9 semester hours earned in statistics courses or mathematics courses numerically above Math 300 and Statistics 200 (other than STAT 402). No more that 6 semester hours may be in statistics. Note: The student must have met all prerequisite requirements before enrolling in any mathematics or statistics course.

Mechanical Engineering

Mechanical Engineering is the profession that deals with the design, development, testing, manufacturing, and maintenance of machines, systems, devices, and components for the betterment of society. Mechanical engineers are involved with such areas as aerospace engineering, automatic control systems, automotive engineering, chemicals, oil and gas, computer aided design, manufacturing, energy conversion, engineering materials, environmental engineering, machine design, manufacturing processes, medicine, robotics, stress analysis, and thermal systems.

Mechanical engineers may deal with hardware as small as a microchip or as large as an aircraft carrier. They may work from the bottom of the ocean up to the weightless environment of interplanetary space. Of all the engineering disciplines, mechanical engineering is the most diversified and offers the largest selection of career paths. If you can see it or touch it, a mechanical engineer probably helped to create it.

The mechanical engineering curriculum at Louisiana Tech is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

Mechanical Engineering Program Educational Objectives

- To prepare students for lifelong learning and successful mechanical engineering careers
- To train students thoroughly in methods of analysis, including the mathematical and computational skills appropriate for mechanical engineers to use when solving problems
- To develop the skills pertinent to the engineering design process, including the students' abilities to formulate problems, to think creatively, to synthesize information, and to work collaboratively in teams
- To teach students to use current experimental and data analysis techniques for mechanical engineering applications
- To develop oral and written communication skills that allow students to present information effectively
- To instill in our students an understanding of their professional and ethical responsibilities

The curriculum includes courses featuring a wide variety of both technical and non-technical topics. Instruction is delivered in a variety of modes designed to assure that upon graduation, each student has the ability to become a successful mechanical engineer.

Mechanical Engineering Curriculum (BS) Freshman Year Natural Sciences (GER) Mathematics (GER) Mathematics 240*, 241*, 242*......9 32 Sophomore Year Natural Sciences (GER) Humanities (GER) 35 Junior Year Humanities (GER) Mechanical Engineering 321, 334, 351 30 Senior Year Humanities (GER) Humanities (GER) Mechanical Engineering 400, 451, 465, 486, 492, 494......10 31 (GER): General Education Requirement (pg. 14) *Grade of "C" or higher required.

**Directed electives chosen by student in consultation with faculty advisor and approved by the Mechanical Engineering Program Chair.

Physics

This curriculum is designed to give a broad and fundamental knowledge of the principles of physics as well as an introduction to the techniques of physics research. Although the primary aim of the basic curriculum is to prepare the student for graduate work in physics, sufficient specialized courses are available to prepare the graduate for jobs in industry and in various government laboratories. A physics major is an excellent choice for the premedical student.

Requirements for a Major in Physics

Each student majoring in physics is required to follow the physics curriculum leading to the Bachelor of Science degree in physics.

For students interested in interdisciplinary fields involving physics, it is suggested that the physics curriculum be followed with all electives taken in the other field of interest. Some interdisciplinary fields are listed with the appropriate elective field in parentheses: astrophysics (astronomy), geophysics (geology), materials science (chemistry and engineering), biophysics (microbiology), mathematical physics (mathematics), solid state (chemistry and engineering).

Physics Curriculum (BS)	
Freshman Year	
Natural Sciences (GER)	
Biological Sciences 130	
English (GER)	
Humanitics (GER)	
Natural Sciences (GER)	
Chemistry 100, 101, 102	6
Integrated Science Labs	
Biological Sciences 131, Chemistry 103, 104	3
Mathematics (GER)	
Mathematics 240, 241, 242	9
Physics 102, 103	2
	32
Sophomore Year	
Arts (GER)	
Humanities (GER)	
Social Sciences (GER)	
Mathematics 243, 244, 245	
Physics 201, 202, 261, 262, 307	
Directed Electives*	3
x ·	32
Junior Year	
Humanities (GER)	
Social Sciences (GER)	
Mathematics Elective	
Physics 416, 417, 418, 419, 424	
Directed Electives*	6
	32
Senior Year	34
Physics 304, 406, 407, 408, 409, 422, 423, 435	
Math Elective	
Directed Electives*	
	29
Total Semester Hours	

(GER): General Education Requirement (pg. 14)

*Directed electives can be chosen from advanced Physics, Mathematics, Engineering, Computer Science, or Chemistry courses and must include at least one computer programming course such as Computer Science 120.

Requirements for a Minor in Physics

Students from other departments who elect a minor in physics should complete Physics 201, 202, 261, 262 and 14 semester hours of advanced courses 300-400 level.

Laser/Optics Concentration

A laser/optics concentration is designed to provide students with more specific studies in the area of lasers and optics. Technical electives in the third and fourth years of study are to be taken from courses such as physical optics, geometrical optics, lasers, modern optics, and Fourier optics. Laboratory courses emphasize hands-on learning through experimentation with modern optical equipment.

Administration

Dean Edward C. Jacobs Associate Dean Dennis E. Minor School of Architecture Henry V. Stout, Director School of Art Dean C. Dablow, Director School of Literature and Language Carole S. Tabor, Director Department of History Stephen Webre, Head Department of Journalism Wiley H. Hilburn, Jr., Head School of the Performing Arts Kenneth Robbins, Director Department of Professional Aviation G. Dale Sistrunk, Head Department of Social Sciences Robert K. Toburen, Head Department of Speech J. Clarice Dans, Head

Address

More information can be obtained about the College of Liberal Arts by writing to the following address: College of Liberal Arts Louisiana Tech University P.O. Box 10018 Louisiana Tech University

Ruston, LA 71272 or by visiting the College of Liberal Arts Web site:

www.latech.edu/tech/liberal-arts/

Mission

As part of Louisiana Tech University, the College of Liberal Arts is committed to the University's dedication "to quality in teaching, in research and creative activity, and in public service." First and foremost, the College of Liberal Arts seeks to support the mission of Louisiana Tech University in maintaining "a faculty committed to teaching and advising, a student-oriented faculty dedicated to preparing students to achieve their goals in a rapidly changing economic and civic environment. . . . a faculty that will through both theoretical and applied research and creative activities, contribute to the development of new knowledge, new art, and new technology."

Goals

Through their studies, students in the College of Liberal Arts become acquainted with many areas of intellectual interest and acquire a thorough knowledge of a specific field through the courses in their major field. This liberal arts education prepares students for business and professional careers as well as providing the basis for a richer and better life. To bring about these ends, The College of Liberal Arts serves both its own majors and the University community in the following ways:

 it offers courses in such areas as English, history, foreign languages, the arts, and social sciences which are required in many of the curricula at Louisiana Tech University;

- it provides traditional humanities and arts courses for students desiring minor fields of study, for non-traditional students who may or may not seek a degree, and for any other student interested in learning about various areas of liberal arts;
- it provides pre-professional training for those students who intend to study law and speech-language pathology or audiology;
- it assists in the preparation of prospective teachers who desire to major in such subjects as art, English, foreign languages, music, social science, and speech;
- it provides specialized training for vocations in such fields as architecture, aviation, graphic design, interior design, journalism, music, and theatre; and
- it provides graduate training leading toward various graduate degrees.

Accreditation

- Art Accredited by National Association of Schools of Art and Design
- Architecture Accredited by National Architectural Accrediting Board
- Interior Design Accredited by Foundation for Interior Design Education Research
- Performing Arts (Music) Accredited by National Association of Schools of Music
- Professional Aviation Accredited by Council on Aviation Accreditation
- Speech Accredited by American Speech, Language, and Hearing Association

Undergraduate Degrees

The following undergraduate curricula are offered by academic units in the College of Liberal Arts:

Associate of General Studies Bachelor of General Studies Bachelor of Architecture Bachelor of Arts

- History
- Journalism
- English
- French
- Spanish
- Music
- Geography
- Political Science
- Sociology
- Speech
- Speech with emphasis in Theatre

Preprofessional Speech-Language Pathology

Bachelor of Fine Arts

- Graphic Design
- PhotographyStudio Art

Studio Art
Bachelor of Interior Design
Bachelor of Music
Bachelor of Science

Professional Aviation

Aviation Management

Minors

Students may earn minors in one of the following areas:

- Architecture
- Art
- Art History
- English
- French
- German
- Russian
- Spanish
- History
- Cultural Resources (interdisciplinary)
- Journalism
- Music
- Professional Aviation
- Aviation Management
- Geography
- Political Science
- Sociology
- Speech
- Theatre

A student must earn a grade of C or better in each course applied toward meeting the requirements of a minor. This requirement will be applicable to new undergraduate students (freshmen and transfers) whose initial enrollment is Fall Quarter 2003 or quarters thereafter.

Admission, Transfer Credit, and Graduation

Admission Requirements

The College of Liberal Arts follows the general admissions policies of Louisiana Tech University, listed earlier in the University Catalog. In general, a freshman must have a high school GPA of 2.3, or be in the upper 35% of the graduating class, or have a composite ACT score of 22 or an SAT score of 1020.

Special Program Admission Requircments

More specific admissions criteria have been established for the following programs in Liberal Arts:

- School of Architecture (See the Director of the School of Architecture)
- School of Art (See the Director of the School of Art)
- School of the Performing Arts (Music; see the Director of the School of the Performing Arts)
- Department of Speech (Theatre Concentration; see the Director of the School of the Performing Arts)

Transfer Credit

The College of Liberal Arts follows the transfer admissions criteria listed earlier in the University Catalog: Students desiring to transfer to Louisiana Tech University with fewer than 24 semester hours of college-level course work must meet the same requirements as an entering freshman and be eligible to re-enter the institution from which he/she is transferring. Students who have completed 24 or more semester hours of college-level course work must have a minimum overall grade point average of 2.0 (on a 4.0 scale). Students transferring must submit an application and a complete, official transcript from each college attended, whether credit was earned or transferrable. Students should check with their academic advisor or unit head about the transfer of specific courses into the student's major curriculum.

Graduation

Candidates for graduation in the College of Liberal Arts must have completed an approved curriculum and must have an average grade of C or better on all course credits earned. For those curricula specifying such, the minor subject must be chosen with the approval of the student's advisor before the first quarter of the junior year. Twenty-one semester hours of credit are required for a minor.

Physical education requirements are to be met through physical education activity courses, through equivalent participation in the United States Air Reserve Officers Training Corps program, or through military service. Not more than 4 semester hours of physical education activity courses will be counted toward degree requirements.

Awards

Contact the appropriate School or Department for more information.

School of Architecture

- Alpha Rho Chi Award
- American Institute of Architects Gold Medal
- Tau Sigma Delta Medal
- Department of Professional Aviation
 - Outstanding Aviation Student Award
 - Outstanding Flight Instructor Award
 - Professional Aviation Faculty Award

Department of Speech

- Debate and Forensic Awards
 - Speech-Language Pathology and Audiology
- Awards School of the Performing Arts

Theatre

- L. M. Sciro Award for Theatre or Stage Management
- Gregory Stone Memorial Performing Arts Award
- John D. Winters Endowed Award in Theatre
- Vera Alice Paul Award
- Tech Tony Awards

Music

- Robert E. Cheatham III Honors Recital
- Band Service Award
- Band Staff Service Award
- Hoop Troop Basketball Band Award
- Jazz Ensemble Service Award
- Wind Ensemble Service Award

Scholarships

For additional information, please contact the school or department which offers the scholarship.

College of Liberal Arts

Liberal Arts Alumni Scholarships

School of Architecture

- American Institute of Architects Scholarships
- Loyd Ray Click Memorial Scholarship
- Guy Charles Danti Memorial Endowed
 Scholarship
- Melinda Sue McGee Memorial Endowed Scholarship
- Walpole/Best Endowed Scholarship

School of Art

F. Elizabeth Bethea Scholarship

School of Literature and Language English

- Mary Alice Posey Garrett English Scholarship
- Clairecc Harp Lyles Endowed Scholarship in English
- Dorothy Melton Scholarship in English

French

- CODOFIL Scholarships
- Department of History
 - McGinty Undergraduate History Scholarships
 - Travis Melton, Jr., Undergraduate History
- Scholarship Department of Journalism
 - Freshman Scholarships.
 - Student Publication Service Scholarships
 - Other scholarships arc available as finances permit.
- School of the Performing Arts

General

- Outstanding Student Performing Arts
- Merritt Performing Arts Scholarship
- Performing Arts Dorm Scholarship
- LaVerne E. Irvine Scholarship
- Ben Laney Memorial Scholarship

Theatre

- Helen Thompson Drama Scholarship
- Music
 - Out-of-State Tuition Waivers
 John Simoneaux Memorial Scholarship
 - Virginia Thompson Women's Department Club Music Scholarship
 - Mabel Anne Walker Harper Piano Scholarship
 - James E. Smith Band Scholarship
 - Music Department Instrumental Scholarship
 - Music Department Choir Scholarship
 - Music Department String Scholarship
 - Music Department Piano Scholarship

Department of Professional Aviation

- James Edward Skinner Scholarship
- Katie Leslie Scholarship
- Louis Waller Scholarship
- Victor Saracini Scholarship

Department of Social Sciences

- John M. Caldwell Memorial Scholarship in Social Sciences
- John K. Price Scholarship in Social Sciences Department of Speech
 - Outstanding Student-Debate Scholarships
 - Gładys B. Moore Speech-Language Pathology
 Scholarship

Organizations

School of Architecture

- Architecture
 - Art and Architecture Student Association
 - American Institute of Architecture Students
 - Tau Sigma Delta

Interior Design

• American Society of Interior Designers (Student Chapter)

School of Art

Art and Architecture Student Association
School of Literature and Language

English

Sigma Tau Delta

French

Pi Delta Phi

Spanish

- Sigma Delta Pi
- Department of Social Sciences
- All Social Sciences
 - Social Science Organization
- Geography
 - Gamma Theta Upsilon
- Department of History
 - Phi Alpha Theta
- Department of Journalism
 - Society of Professional Journalists
- School of the Performing Arts
- Music
 - Kappa Kappa Psi
 - Music Educators National Conference (MENC)
 - Music Teachers National Association
 - Phi Buda Ruda
 - Phi Mu Alpha
 - Sigma Alpha lota
 - Tau Beta Sigma

Theatre

Tech Theatre Players

Department of Professional Aviation

- Alpha Eta Rho
- Louisiana Tech Flight Team
- Department of Speech
 - The Louisiana Tech Chapter of the National Student Speech-Language-Hearing Association (NSSLHA)
 - Pi Kappa Delta
 - Louisiana Tech Debate Union
 - Tech Communication Association (TCA)

Bachelor Degree Programs

Degrees in General Studies

Associate of General Studies (AGS)

The Associate of General Studies degree requires 63 hours. These include 27 hours for the General Education Requirements, 15 hours in a thematic concentration (Main Campus - arts, humanities, social sciences, natural sciences; Barksdale Campus - business, psychology) and 21 hours in 3 enrichment areas. Information concerning acceptable concentrations is available from the Coordinator of the General Studies program (main campus), the Director of the Barksdale program (Barksdale campus), or the office of the Dean of Liberal Arts. In consultation with an advisor, a plan of study is set up when a student seeks admission to the program. A 2.5 GPA in the concentration and 2.0 overall GPA are required for graduation.

Associate of General Studies Curriculum (AGS)

 Freshman Year
 6

 English(GER)
 6

 Mathematics (GER)
 6

 Computer Literacy (GER)
 3

 Natural Sciences (GER)
 6

 Arts (GER)
 3

 Humanities(GER
 3

 Social Sciences (GER)
 6

 3
 3

 Sophomore Year
 33

 Approved Concentration
 15

Approved Electives (for Enrichment Blocks)	
Total Semester Hours	

Bachelor of General Studies (BGS)

The Bachelor of General Studics degree requires a total of 123 semester hours. These hours include the General Education Requirements, a thematic concentration (Main Campus - arts, humanities, social sciences, natural sciences; Barksdale Campus - business, psychology) of 24 hours, and 3 enrichment blocks of hours each. Information concerning acceptable 12 concentrations is available from the Coordinator of the General Studies program (main campus), the Director of the Barksdale program (Barksdale campus), or the office of the Dean of Liberal Arts. In order to receive a Bachelor of General Studies degree, a candidate must have a 2.5 GPA in the concentration, a 2.25 GPA in 45 hours of 300- and 400-level courses (at least 15 hours at the 400 level), and a 2.0 overall GPA. Interested students should meet with the Coordinator of the General Studies program on the main campus or the Director of the Barksdale program on the Barksdale campus. At this time a plan of study will be set up.

Bachelor of General Studies Curriculum (BGS)

Bachelor of General Studies Curriculum (BGS)
Freshman Year
English (GER)
Mathematics (GER)
Natural Sciences (GER)
Humanities (GER)
Social Science (GER)
Sophomore Year
Computer Literacy (GER)
Mathematics (GER)
Natural Sciences (GER)
Arts (GER)
Humanities (GER)
Social Science (GER)
Approved Electives (for Enrichment Blocks)
30
Junior Year
Approved Concentration
Approved Electives (for Enrichment Blocks)
Senior Year
Approved Concentration
Approved Electives
Total Semester Hours

School of Architecture

School of Architecture Mission Statement

Recognizing that architecture is one of the basic or root arts in human culture, the primary mission of the School of Architecture is to provide an accredited professional degree program in architecture that is reflective of the architect's role as the primary shaper and steward of the built environment throughout the life cycle of its buildings and communities. Additionally, the School of Architecture acknowledges that the conscientious making of the built environment is a collaborative endeavor, and consequently its secondary mission is to provide accredited degree programs in allied fields of study that share responsibility for influencing and effecting the nature and quality of the built environment.

The School of Architecture offers the following degrees:

- Bachelor of Architecture: (B. Arch. -- an accredited professional degree.) In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes two types of degrees: the Bachelor of Architecture and the Master of Architecture.
- Bachelor of Interior Design: (BID)

Architecture Program Mission Statement

To provide a comprehensive and uncompromising, balanced, and demanding education int the art (poetic expression), craft (technical processes, and practice (professional services) of ethical building through the polytechnic tradition of "hands-on" experiences and empirical learning that prepares an individual to be an architect in the fullest sense of the word.

Bachelor of Architecture (BArch)

Students transferring into the architecture program from another accredited institution are required to earn a minimum of 31 credit hours from Louisiana Tech University to be eligible for the award of the Bachelor of Architecture degree, and additional course work beyond the 159 credit hours stipulated in the curriculum may be required in order to meet equivalency requirements.

Bachelor of Architecture Curriculum (BArch)

Freshman Year - Foundation Level	
Architecture 110, 112, 120, 130, 131, 132	
Natural Sciences (GER)	
Biological Sciences	3
English(GER)	
Humanities (GER)	
Mathematics 101, 112.	
Sophomore Year - Foundation Level	33
Architecture 200, 210, 211, 220, 222, 230, 231, 301	
Humanities (GER)	
Natural Sciences (GER)	•
Physics	6
Directed Elective ***	4
	31

Admission to the Professional Concentration is contingent upon satisfactory completion of all required course work at the Foundation Level.

NOTE: All students entering the Professional Concentration are required to have access to a laptop computer for use in class for written, calculating and graphic work associated with professional area courses.

Junior Year - Professional Concentration

Architecture 221, 300, 310, 311, 320, 331, 421, 471, 474	
Engineering Technology 301, 306, 326*	
Craft Elective**	
Social Sciences (GER)	3
	34

Senior Year - Professional Concentration	-
Architecture 232, 332, 410, 411, 420, 481	16
Construction Engineering Technology 401, 402, 421, 422 *	. 6
Craft Elective**	. 3

Admission to the Degree Design Project is contingent upon the following:

(1) Satisfactory completion of all required course work in the Foundation Level and Professional Concentration Level of the curriculum.

31

30

(2) A 3.00 average in Architecture 310, 320, 410, and 420.

Fifth Year - Degree Design Project	
Architecture 473, 480, 490, 491	12
Directed Electives ***	

No grade of **D** or below in Architecture or Interior Design courses will apply towards the Bachelor of Architecture degree.

* Course work required to be taken at Grambling State University as part of Inter-institutional Cooperative Program (ICP) agreement.

**Craft electives are to be selected from Architecture 350, Art 240, 241, 346, 347, 390, 391,490, or Interior Design 451.

***Directed electives are to be selected from an approved list of courses associated with the architectural areas of assembly, design and management.

All students are required to acquire a minimum of 400 clock hours of architectural practice experience and/or architecturerelated community service after the Foundation Level to satisfy graduation requirements.

Requirements for a Minor in Architecture

A minor in architecture consists of 21 credit hours of architecture course work. The plan of study must include ARCH 131, 211, 222, 231, 321, 331, 402, 411, 450, 471 and 472. Any deviation from this plan of study must be approved by the Director, School of Architecture.

Interdisciplinary Minor in Cultural Resources

See Department of History.

Interior Design Mission Statement

To rigorously engage in student-centered learning focused on the interplay between surface and volume, light and color, texture and pattern, scale and status, and movement and view in order to prepare an individual to become a specialist in the art (poetic expression), craft (technical processes), and practice (professional services) of giving physical shape and identity to the interior spaces that we move through, exist in, and use in our daily lives.

Bachelor of Interior Design Curriculum (BID)

Students transferring into the interior design program from another accredited institution are required to earn a minimum of 31 credit hours from Louisiana Tech University to be eligible for the award of the Bachelor of Interior Design degree, and additional course work beyond the 120 credit hours stipulated in the curriculum may be required in order to meet equivalency requirements.

Freshman Year - Foundation Level	
Architecture 110, 112, 120, 130, 132	10
English (GER)	
Humanities (GER)	
History 101 and 102	6
Mathematics (GER)	6
Natural Sciences (GER)	3

Sophomore Year - Foundation Level	
Architecture 210, 211, 220, 222, 230, 231	12
Art 116, 266, 267	9
Interior Design 250, 355, 356	
Humanities (GER)	
Literature	
Natural Sciences (GER)	6

NOTE: All students entering the Professional Concentration are required to have access to a computer for use in class for written, calculating, and graphic work associated with professional area courses.

34

Junior Year - Professional Concentration Architecture 232, 332, 474	8
Interior Design 352, 353, 354, 357, 457, 458	
Humanities (GER)	
Speech 110 or 377	3
	27
Senior Year - Professional Concentration	
Architecture 300, 380	
Interior Design 452, 453, 454, 456	
Social Sciences (GER)	
Psychology 102, 455	
Additional Social Sciences Course	
Directed Elective(s)	4
	28

All students are required to acquire a minimum of 400 clock hours of interior design practice experience and/or interior design-related community service after the Foundation Level to satisfy graduation requirements.

Requirements for a Minor in Interior Design

A minor in interior design consists of Architecture 211, 222, 231, 402, 450; Interior Design 250, 355, 356, 357, 451, 456, 457, and 458. Any deviation from this plan of study must be approved by the Director, School of Architecture.

Interdisciplinary Minor in Cultural Resources

See Department of History.

School of Art

School of Art Objectives

The objectives of the School of Art are to prepare students as professional artists and to develop enlightened individuals in the production of art culminating in the Bachelor of Fine Arts and/or Master of Fine Arts degrees. To support these objectives we provide the student with a series of guided experiences in the history of art, the use of materials, the development of a personal aesthetic, and the encouragement of artistic mastery. These objectives should provide our students with the attitudes and skills needed to become mature, self-motivated artists.

Bachelor of Fine Arts Objectives

This program is designed to develop a deep and lasting appreciation for the visual arts among the students and to train professional artists in their respective fields of study. The candidate for a degree must complete the prescribed General Education Requirements (GER) courses and pass the remaining art courses with no grade below a C.

Degree Offerings in the School of Art

 The Bachelor of Fine Arts (BFA) is offered in graphic design, photography, and studio (ceramics, drawing, painting, printmaking, and sculpture concentrations).

Prerequisites

With the exception of art history, courses beyond the basic design and drawing courses have prerequisites as the knowledge gained in each successive course builds on the previous experience. Students who qualify for Advanced Placement Credit will be given credit for art elective courses; however, all students must enroll in the basic design and drawing courses because of the importance of learning the content of these introductory courses.

Senior Exhibit

A senior exhibit is required of all art majors and will be a graded component of their final major studio course. A passing grade in this course is contingent upon a C or better grade for the exhibit. The area head assigns this grade. The following courses (by areas) will serve as the final major studio/exhibit course:

•	Graphic Design	Art 475
•	Photography	Art 474
•	Studio:	
	2-D	Art 415
	3-D	Art 415

Art-Graphic Design Curriculum (BFA)

Students entering this field of study will pursue courses in the core curriculum during their freshman year. These include drawing, designing, art history, rendering, and electives of the student's choice as well as the first graphic design class, Art 160. The sophomore, junior, and senior years are spent specializing in the graphic design area. Courses include typography, layout, production techniques, illustration, advertising campaign, and computer graphics. Much of the senior year is directed toward the preparation of a portfolio which will provide evidence to a potential employer of the graduate's talents and expertise in the graphics and visual communication fields. Upon graduation students are qualified to perform professionally in a wide variety of graphic-related industries: print advertising, newspaper, magazine and book publishing, specialized studios, among other related activities.

Note: All students enrolled in Art 260 must have Macintosh laptops. Specific descriptions of the laptop are available on our Web site www.art.latech.cdu.

Freshman Year
Art 115, 116, 118, 119, 125, 126, 160
English(GER)
Mathematics (GER)
33
Sophomore Year
Art 260, 261, 262, 263, 266, 267
Natural Sciences (GER)
Humanities (GER)
Speech 110 or 377
Art Elective
33
Junior Year
Art 360, 361, 362 (6)12
Art 225 or 228
Art Elective
Humanities (GER)
English 201 or 202
Social Sciences (GER)

Graphic Design Elective	. 3
	33
Senior Year	
Art 363, 464, 475	.9
Art 462	.3
Art History Elective	.3
Graphic Design Elective	3
Humanities (GER)	
History	.3
Additional Humanities Course.	.3
	24
Total Semester Hours	23

Art-Photography Curriculum (BFA)

In the Photography program, students are involved in a common curriculum with other art majors. The emphasis is on the use of photographic materials as a means of self-expression and discovery. Technical skill is taught. However, the primary intent of the program is to examine the impact photography has on the individual, the community, and society as a whole. Through lectures, demonstrations, practical lab work, and problem solving, students develop into well-rounded artists and craftsmen. The equipment and facilities provided by the program allow the student an opportunity to master the various tools and techniques of photography.

Freshman Year

Art 115, 116, 117, 118, 125, 126, 170, 17324	4
English 101 (GER)	3
Mathematics (GER)	
Mathematics 101, 125	6
	_
3.	3
Sophomore Year	_
Art 205, 220, 270, 271 1	
Art 266, 267	
English 102 (GER)	3
Natural Sciences (GER)	9
Humanities (GER)	_
Speech 110 or 377	3
	_
3	3
Junior Year	~
Art 372, 373, 374	2
Art 472	2 2
Art History Elective	
Social Sciences (GER)	9
	7
Senior Year	U
Art 415, 473, 474	2
Art Elective	6
Humanities (GER)	v
English 201 or 202	3
History	à.
Additional Humanities Course	
	-
2	7
-	
Total Semester Hours	3
(GER): General Education Requirement (pg. 14)	

Art-Studio Curriculum (BFA)

The Studio program provides areas of concentration in ceramics, drawing, painting, printmaking, and sculpture. During their freshman and sophomore years, Studio majors are involved in a common curriculum. The junior and senior years consist of a flexible curriculum that is primarily structured around studio assignments and individual criticism coupled with group lectures and seminars. The emphasis is one the use of materials as a means of self-expression. Technique is studied as an important aspect of art training. However, in a deeper sense, the intent of the program is to examine the reasons art is made and how art impacts the lives of those who make it as well as those who view it. Learning methods of solving visual problems, students develop into well-rounded artists and craftsmen. The equipment provided by the program allows students an opportunity to master the various tools and techniques available to the artist.

Freshman Year	
Art 115, 116, 117, 118, 125, 126	
English (GER)	6
Mathematics (GER)	6
Humanities (GER)	
Speech 110 or 377	3
	33
Sophomore Year	

Art 220, 225, 228, 240 or 241, 331, 390	
Art 266, 267	
Art History Elective	
Natural Sciences (GER)	

	36
Junior Year	
Art Major Studio	9
Art 473 (A)	
Social Sciences (GER)	
Humanities (GER)	
English 201 or 202	3
Additional Humanities Course	
	27

Senior Year	
Art Major Studio	
Art Electives	
Art History Elective	
Humanities (GER)	
History	3
	27
Total Semester Hours	

(GER): General Education Requirement (pg. 14)

Requirements for a Minor in Art

For a minor, 40 to 60 % of the 21-hour requirement must be at the 300-level or above. The following courses will constitute an art minor: Art 115, 125, 468, and art electives with 9 to 12 hours at the 300- or 400- level. Prerequisites may necessitate more hours than the minimum 21 specified.

In Graphic Design, the following courses will constitute a minor: Art 115, 125, 160, 260, 261, 262 or 263, 462 or 468, plus the requisite 300-400- level courses.

Course work for a Photography or Studio minor will be determined upon interview with the curriculum advisor.

Requirements for a Minor in Art History

A minor in Art History requires Art 266, 267, 472 and an additional 12 hours chosen from Art 459, 460, 461, 462, 465, 466, 467, 468, 469, Archeology 462, 463, 464, 466, and Architecture 211, 222, and 231.

Interdisciplinary Minor in Cultural Resources.

See Department of History.

Bachelor Of Arts In Art Education

See College of Education.

School of Literature and Language

Department of English

Objectives and Career Opportunities

A student majoring in English studies literary history, literary forms and theory, and the wide variety of texts fro English and American literature, as well as masterpieces from other literatures in English translation. One of the most intellectually rewarding of studies, an English curriculum will develop critical thinking skills, critical reading abilities and writing skills, and research skills which will prepare the graduate for success in a variety of fields. A degree in English is an excellent pre-professional major for fields such as law and medicine and provides the necessary platform for the MA and PhD in English for students who wish to enter secondary or university teaching. It can lead to careers in publishing, editing, advertising, public relations, or government service. Students choosing the technical writing concentration will find rewarding career opportunities in business, industry, and the professions. With many electives in the curriculum, English is one of the most flexible and useful of degrees.

The Department of English offers the Bachelor of Arts degree with a major in English

Credit Examination

All students with an ACT English score greater than or equal to 26 or a SAT Verbal score greater than or equal to 590, who have not had any college-level English courses, can take a credit exam for English 101 offered through the Department of English at the beginning of each quarter.

Requirements for a Major in English

Students in the Department of English are required to follow the curriculum for the major in English leading to the degree of Bachelor of Arts in English. A major in English consists of 30 semester hours, 6 hours of directed electives, and an approved minor of 21 hours for a minimum total of 123 semester hours. English majors must have a 2.0 earned grade point average for graduation and no grade lower than a C in any required English class.

English Curriculum (BA)

Bush shirth and a star
Freshman Year
English (GER)
Humanities (GER)
English 201 or 202
History 101, 102
Mathematics (GER)
Natural Sciences (GER)
Social Sciences (GER)
30
Sophomore Year
English 201 or 202
Foreign Language*
History 201 or 202
Computer Literacy (GER)**
Natural Sciences (GER)
Humanities (GER)
Speech 110, 211, or 377
Social Sciences (GER)
Elective
Jan State
30
Junior Year

Arts (GER)	
English 303 or 336	
English 438, 439, or 4403	

English 410, 411, 412, 413, 414, or 455	3
English 401, 408, 409, 416, 417, 418, 424, 429, or 430	3
Foreign Language*	6
Electives	12

	33
Senior Year	
English 403 or 404	
English 415	3
Electives	
Directed Electives***	

30

*Must be in the same language

**Computer Science 100, Merchandising and Consumer Studies 246, Education 245 or 445, or any computer language course (e.g. COBOL, FORTRAN). Education 310 is not acceptable.

***6 hours should be chosen as Directed Electives from two of three areas:

- Technology: English 303, 463, or 480
- Multi/cross culturalism: English 482, Russian 425, Spanish 426 or 427, French 428, English 406
- Language and Communication: English 332 or 422, English/Foreign Languages 470, or English 470.

Requirements for a Minor in English

A minor in English consists of 21 semester hours of English courses. The plan of study must include English 101, 102, 201, 202, 415, and 6 additional 300/400-level semester hours of English.

Requirements for a Minor in Technical Writing

A minor in Technical Writing consists of 21 semester hours of English courses. The study plan must include English 101, 102, 201 or 202, 303, and 9 additional hours of 300/400-level semester hours of any eourses listed in the Technical Writing concentration.

Interdisciplinary Minor in Cultural Resources.

See Department of History.

Requirements for a Concentration in Technical Writing

No later than the end of the sophomore year, students wishing to pursue a concentration in Technical Writing leading to the degree of Bachelor of Arts in English are required to declare their intention. Those choosing the Technical Writing concentration must include in their study plan English 101, 102, 201 or 202, 303, 459 or 463, 460, 461 or 468, 462, 464 or 469, 465 and an approved technical specialization area of 21 hours for a minimum total of 123 semester hours. English majors with a concentration in Technical Writing must have a 2.0 earned grade point average for graduation and no grade lower than a C in any required English class.

Department of Foreign Languages

Objectives and Career Opportunities

The Department of Foreign Languages provides majors in French and Spanish with a curriculum designed to enable students to acquire competency in all the major dimensions of these languages. Degrees in these languages will lead to careers in language teaching, translating and interpreting, and literary analysis as well as to opportunities in international business, diplomacy, and education.

The Department of Foreign Languages offers the Bachelor of Arts degree with majors in:

- French
- Spanish

Credit/Placement Examination

Students may earn credit for beginning and intermediate foreign language courses (100 and 200 level) by passing credit/placement examinations. Students with three or more years of high school credit and native speakers should consult the department office before registration.

The foreign language credit/placement examinations are scheduled to be given each quarter on the two days preceeding the first day of class. The exact time, place, and date of the examinations are listed on the calendar page of the quarterly class schedules. Students register for a credit/placement exam by enrolling in the E01 section of the appropriate 100 or 200 level course. Students may arrange for a credit exam by special appointment during the quarter but at an additional cost.

Students who have already completed credits in a foreign language must not enroll in an elementary class in that language without first taking the appropriate credit/placement examination. Neither the credit/placement exams for the following courses, nor the courses themselves, are open to native speakers: French (FREN) or Spanish (SPAN) 101, 102, 201, 202, 301, 302. (Effective with students newly admitted or readmitted to Louisiana Tech University in the Fall Quarter 2004 and after.)

Foreign Language Requirement

All students are advised to complete a year's sequence of their foreign language courses without unnecessary interval between courses. A language requirement must be completed in the same language.

Students who have completed two years or more of high school French or Spanish with a "C" average or higher may not enroll in 101-level courses, but must begin their language study at the 102-level or place into a higher level course by taking the appropriate credit/placement exam. All students who complete French or Spanish 102 or who earn credit for French or Spanish 102 by exam will also automatically earn credit for French or Spanish 101. (Effective with students newly admitted or readmitted to Louisiana Tech University in the Fall Quarter 2004 and after.)

Majors and Minors

Majors in French and Spanish consist of 30 hours above the 100 level. These programs lead to Bachelor of Arts degrees in French and Spanish, respectively. Students pursuing these majors should consult with the department office concerning specific plans available for use of electives, minors, and second areas to strengthen their major and career plans. Minors in French, German, Russian, and Spanish consist of 21 hours in those languages and must include 101, 102, 201, 202, and three additional courses at the 300- or 400-level. Please note that French 428, Russian 425, and Spanish 426 and 427 (French, Russian, and Hispanic literature in English translation, respectively) cannot be used as part of the 30 hours of language courses for the major or as part of the 21 hours for the minor.

Native speakers who wish to *minor* in a Foreign Language must complete three 300-level courses other than 301 and 302. Only upon completion of these courses will credit for 101, 102, 201, and 202 be awarded. Native speakers who wish to *major* in a Foreign Language must successfully complete eight 300- or 400-level courses other than 301 and 302. Only upon completion of these courses will credit for 101, 102, 201, and 202 be awarded. (Effective with students newly admitted or readmitted to Louisiana Tech University in the Fall Quarter 2004 and after.)

Study Abroad

Study opportunities abroad are available to students of French, German, Russian, and Spanish. Through the University's membership in the CODOFIL Consortium, French students may choose from a variety of programs in Quebec, Belgium and France. Spanish, Russian and German students participate in study abroad programs conducted by other U.S. institutions.

French Curriculum (BA)

Cambons Voor

Freshman Year	
English (GER)	6
French 201, 202	6
Mathematics (GER)	
Natural Sciences (GER)	6
English 201 or 202	3
Electives*	

30

Sophomore Year
Computer Literacy (GER)**
French 301, 302, 304
Humanities (GER)
Electives*
Natural Sciences (GER)
English 201 or 202
Social Sciences (GER)

	35
Junior Year	
French 305	
French (upper division)	6
Humanities (GER)	
Social Sciences (GER)	
Electives*	9

	30
Senior Year	
Arts (GER)	
French 450 or 470	
French (upper division)	
Electives*	
Directed Electives***	
	30

Note: As the scheduling of upper-division French courses is determined by changing enrollment patterns, students who plan to complete their degree within the shortest time possible may have to take one or more French courses through the Inter-Institutional Cooperative Program (ICP) at Grambling State University.

French 101 and 102 may be used as freshman electives only if the student does not qualify for French 201 upon entering.

*All or part of the 36 hours of electives may be dedicated to a second major, or 21 of them may be dedicated to a minor. **See unit head for appropriate courses..

***The Directed Elective may be chosen from one of two areas:

- Language and Culture Studies: English as a Second Language 454, 460, 470, or 493; English 422; English/Foreign Languages 470; Speech 222, 430, or 440.;
- Area Studies: History 413, 414, 418, 419, 420, 440, 441, 442, or 444; Economics 344; Political Science 325 or 350.

Spanish Curriculum (BA)

Freshman Year	
English (GER)	6
Spanish 201, 202	
Mathematics (GER)	6
Natural Sciences (GER)	
English 201 or 202	
Electives*	

	30
Sophomore Year	
Computer Literacy (GER)**	
Spanish 301, 302, 380	
Humanities (GER)	
Electives*	6
Natural Sciences (GER)	
English 201 or 202	

Social Sciences (GER)	3
A 0	33
Junior Year	
Spanish 381	3
Spanish (upper division)	6
Humanities (GER)	3
Social Sciences (GER)	6
Electives*	12
	30
Senior Year	
Arts (GER)	
Spanish 450	3
Spanish (upper division)	3
Electives*	18
Directed Elective***	3
	30

As the scheduling of upper-division Spanish courses is determined by changing enrollment patterns, students who plan to complete their degree within the shortest time possible may have to take one or more Spanish courses through the Inter-Institutional Cooperative Program at Grambling State University.

Spanish 101 and 102 may be used as freshman electives only if the student does not qualify for Spanish 201 upon entering.

* All or part of the 36 hours of electives may be dedicated to a second major, or 21 of them may be dedicated to a minor.

** See unit head for appropriate courses.

- *** The Directed Elective may be chosen from one of two areas:
- Language and Cultural Studies: English as a Second Language 454, 460, 470, or 493; English 422; English/Foreign Languages 470; Speech 222, 430, or 440;
- Area Studies: History 413, 414, 418, 419, 420, 440, 441, 442, or 444; Economics 344; Political Science 325 or 350.

Department of History

Objective

In the established tradition of liberal arts education, the Department of History provides students with personal cultural enrichment, while preparing them for employment in fields in which historical knowledge, habits of mind, and skills (such as research, analysis, and communication) are valued, and/or for further study leading to careers in teaching, the law, the ministry, government service, and many others.

The Department of History offers the Bachelor of Arts degree with a major in HIstory

Chair in History

The Garnie W. McGinty Chair of History, endowed in 1977 by Dr. G. W. McGinty, former head of the History Department, is currently occupied by a member of the department. The McGinty Trust Fund also enables the department to publish scholarly historical works and to award scholarships to qualified students. The department also sponsors the American Foreign Policy Center.

Requirements for a Major

Thirty semester hours in history, as specified in the curriculum below, constitute a major in the Department of History. Every history major must have a minor, normally 21 hours in a related field, chosen in consultation with his or her advisor and, if necessary, the head of the department in which the student wishes to minor. Every major will consult with his or her advisor during each registration period and throughout the term as need arises. This program leads to the degree of Bachelor of Arts.

History Curriculum (BA)	
Freshman Year	
English (GER)	6
Mathematics (GER)	6
History 101, 102	
Humanities (GER)	
Speech 110 or 377	
Foreign Language*	
• • • •	

30

30

Sophomore Year	
Humanities (GER)	
English 201, 202	
History 201, 202	
Foreign Language*	
Sociology 201	
Geography	
Computer Literacy (GER)**	
Natural Sciences (GER)	
Arts (GER)	

	33
Junior Year	
History (300 or 400-level courses)	9
Natural Sciences (GER)	
Social Sciences (GER)	
Political Science 201 and one other	6
Economics 215	
Minor	
	30
Senior Year	
History (300 or 400-level courses)	9
Geography Elective	
Minor	
Electives	

(GER): General Education Requirements (pg. 14)

*Twelve (12) hour foreign language requirement must be in the same language.

**See unit head for appropriate courses.

Requirements for a Minor in History

History 101, 102, 201, and 202 plus 9 hours of advanced history constitute a minor.

Interdisciplinary Minor in Cultural Resources

The Interdisciplinary Minor in Cultural Resources is a program of study in material culture and folk culture, combining courses in archaeology, architecture, art history, and other related fields. Course offerings cover content, theory, method, and techniques of research, documentation, and preservation. This minor is well suited for students who wish to enrich their personal background in the arts, humanities, and social sciences, or wish to prepare for careers or post-graduate study in arts and culture administration, museum studies, applied history, historical preservation, and archives and records management. The minor consists of 21 hours, to include a concentration in either Group I or Group II, below. A concentration must be at least 9 hours but no more than 15 hours. The remaining hours may be chosen from the opposite group and/or from Group III.

- Group I: Archaeology 401, 410, 420, 462, 463, 464, 466.
- Group II: Architecture 211, 222, 231, 321, 331, 472; Art 266, 267, 466, 467, 468, 469, 472.
- Group III: English 470, 421, 422, 482; Geography 205, 210, 290, 470, 490; History 486.

At least 12 hours must be chosen from courses numbered 300 or above. Hours counted toward a student's major may not be counted toward the Interdisciplinary Minor in Cultural Resources.

Department of Journalism

The Department of Journalism offers the Bachelor of Arts degree with a major in Journalism.

Requirements for a Major

A major in Journalism consists of 31 hours of Journalism courses. A minor is also required. Internships are available at newspapers, magazines, public relations firms, and radio and TV stations.

Journalism Curriculum (BA)

Four marism Curricardan (DA)
Freshman Year
Journalism 101, 102, 320
English (GER)
Mathematics (GER)
Mathematics 101 and 125, or 101 and 112
Humanities (GER)
History 201, 202
Speech 110
Elective
31
Sophomore Year
Journalism 310, 311, 350, 353
Humanities (GER)
English 201, 202
Foreign Language*
Natural Sciences (GER)
Minor
31
Junior Year
Journalism 353, 355
Journalism Elective
Foreign Language*
Natural Sciences (GER)
Social Sciences (GER)
Geography 203, 205, or 210
Political Science 201
Minor
31
Senior Year
Journalism 400
Journalism Elective
Arts (GER)
Social Sciences (GER)
Economics 215
A Minor
Electives
30

Total Semester Hours 124 (GER): General Education Requirements (pg. 14)

*Twelve (12) hour foreign language requirement must be in the same language.

Requirements for a Minor in Journalism

For students in other departments, Journalism 101, 102, 310, 320 and 9 hours of advanced journalism courses, numbered in the 300 and 400 series, including any two courses in practical journalism, will constitute a minor in journalism. A minor in journalism can be useful for students in other academic areas who wish to enhance their writing and communication skills.

The University Newspaper

Practical experience in newspaper work is afforded the journalism students through their work as staff members of The Tech Talk, the University newspaper. In addition to their editorial work on the newspaper staff, the journalism students are encouraged to gain experience through page make-up, etc.

School of the Performing Arts

Objective

The School of the Performing Arts has as its primary purpose the education of students for careers as performers, teachers, and scholars in the performing arts fields of theatre, music, dance, and theatre management. It also recognizes the interrelationships of the academic disciplines and provides instruction in the performing arts as a humanistic study. Further, the School endeavors to meet its obligations of service and assistance to its various communities, both within and beyond the University environment. The School is dedicated to the advancement of performing arts culture both in the academic setting and in society.

The School of the Performing Arts offers the following degrees:

Department of Music

- Bachelor of Music: This curriculum is designed for those who are interested in the performing and pedagogical aspects of their training in any major: percussion, guitar, voice, keyboard, woodwinds, brass or strings.
- Bachelor of Arts in Music: This curriculum is designed for the student who desires a liberal arts education with a concentration in music.
- Bachelor of Arts in Music Education: See College of Education.
- Music minor: A minor in music is designed for those who have a strong interest in music as a secondary subject.

Department of Theatre

- Bachelor of Arts in Speech with a concentration in Theatre: The theatre curriculum is designed for those interested in the performance, technical, and management aspects of theatre training within a liberal arts education.
- Bachelor of Science in Speech Education (Grades 7-12) with a concentration in Theatre: See College of Education.
- Theatre minor: A minor in theatre is designed for those who have a strong interest in theatre as a secondary subject

Department of Music

Objectives

The primary purpose of the Department of Music, accredited through the National Association of Schools of Music, is to provide its students with well-rounded preparation for the professional and teaching careers within the many branches of music. The Department strives to combine the high standards of performance characteristic of the conservatory, the scholarly approach to music of the academically oriented university, and the proficiency in pedagogical skills and educational research associated with the leading teacher training institutions, as well as rendering service to the University, local and state communities.

The specific department objectives (as set forth in the Louisiana Tech University Department of Music Handbook and curriculum guides) are designed to meet requirements as established by the Louisiana Board of Regents. The basic objectives of the Department of Music are:

 To assist students in becoming competent, qualified musicians by providing quality instruction and programs in music.

- To provide a variety of experiences which will prepare prospective musicians/music teachers to assume their professional roles in the fields of music performance and/or music education.
- To provide educational experiences which will develop the individual's knowledge in both breadth and depth.
- To provide consultation service, workshops, seminars, and extension programs for teachers, administrators, school boards, and other community members interested in the development of music and music education through lecture/demonstrations, clinics, recital programs, and adjudicators for district and state music festivals.
- To evaluate on a continuing basis the curricula, course offerings and services of the Department of Music in light of new knowledge, career requirements, and opportunities for college graduates.

The accomplishment of this mission and achievement of these objectives are the ongoing endeavors of the faculty and staff of the Department of Music. For further details, visit the Department of Music Web site at http://performingarts.latech.edu/ or contact the Coordinator of Music.

Requirements for Admission and Degrees

Entering first-year and transfer music majors are required to audition in the major performance medium prior to acceptance. The audition may be on site or via recording. Contact the Coordinator of Music for further details.

A music theory placement exam is given to new music students. All students are enrolled in either the College of Liberal Arts or the College of Education (Music Education majors), and, as music majors, follow the appropriate curriculum corresponding to the academic year of entry. Transfer credit will be evaluated for placement in music curricula. In addition to the completion of the requirements of the degrees, students must complete the University's general education requirements (GER).

Requirements for Music Majors

Students selecting a major in music will be required to:

- Select a major instrument from the following: brass, woodwinds, percussion, guitar, keyboard, strings or voice.
- Maintain a 2.5 cumulative GPA in music.
- Receive a grade of C or better to progress through the sequence of music theory classes.
- Pass the piano proficiency requirements by the end of the 6th quarter of study.
- Complete 10 quarters of MUAP 100 -- Recital Hour.
- Attend specified departmental and School of the Performing Arts performances each quarter.
- Perform during Recital Hour: BM majors, 3 times each academic year; BA and BA/Music Ed majors, 2 times each academic year. In all cases, only one chamber ensemble performance may be counted.
- Enroll in a major ensemble each quarter (except students participating in student teaching). Major ensembles include Concert Choir, Wind Ensemble, Chamber Singers, Concert Band, Chamber Orchestra, and Marching Band.
- Participate in juries at the end of each quarter or as required by the individual studio.
- Apply for upper division status after 6 quarters of study. (See private teacher for form.) Prerequisites: Pass all parts of the proficiency exam in piano; vocal majors must pass all three diction courses.

All graduating seniors must complete the major field area test. (See Coordinator of Music for details.)

Transfer students intending to major in music must audition for the specific area faculty and take placement exams in piano, music theory, and music history. Students transferring majors within the Department (BM to BA, flute to clarinet, etc.) must audition for the new major and adopt the requirements of the new curriculum It is reasonable to assume that a music student accepts full responsibility for knowing the policies and regulations of the School of the Performing Arts and Department of Music requirements relevant to his or her individual degree program.

Requirements for a Minor in Music

The Music Minor program is designed for qualified students who have a strong interest in music as a secondary subject. Students desiring to pursue a music minor must meet with a Music Department advisor for specific details and to fill out appropriate paperwork. The minor consists of 21 hours as follows: Music Theory 101, 102, 103 - 6 hrs; Major Ensemble (Band or Choir) -1 hr; Music Applied (MUAP Private Lesson) - 4 hrs (must be from one area); MUPD 300 - 1 hr; music electives - 9 hrs to be selected from: MUHS 301 (2), 302 (2), 303 (2), 410 (3), 430 (3), 431 (2), 432 (3), 433 (3), 450 (3), 307 (2) or other music courses selected in consultation with the music advisor. This minor does not meet teacher certification requirements.

Ensembles

All music department ensembles are open to qualified students regardless of major. Membership is by audition and ean be arranged by contacting the appropriate director or conductor. Additional information can be found at http://performingarts.latech.edu.

- Vocal Ensembles: University Concert Choir, Chamber Singers; Opera Workshop
- Instrumental Ensembles: Marching Band of Pride; Hoop Troop; University Wind Ensemble; University Symphonic Band; University Concert Band; University Jazz Ensemble; Percussion Ensemble; Low Brass Ensemble; Woodwind Choir; Chamber Orchestra; Brass Quartet; Guitar Ensemble; Piano Ensemble; various chamber ensembles.

Bachelor of Music Curriculum (BM)

This curriculum is designed for those who are interested in the performing and pedagogical aspects of their training in their major instrument. All majors are required to take a minimum of three quarters of a foreign language. Each student must confer once each quarter with his/her advisor to check on academic status and to plan future work. See the Music Department Handbook for upper division requirements in applied music.

Freshman Year
Computer Literacy (GER)
Music Technology 3013
English (GER)
Mathematics (GER)
Mathematics 101, 125
Music Theory 101, 102
Music Applied - Major
Music Applied - Minor (MUAP 111,112,113)
Music Ensembles - Major
Recital Hour – Music Applied 100 (3 quarters)0
Social Sciences (GER)
Elective 1
Sophomore Vear

Sopnomore Year	
Music Theory 103, 201, 202	
Music Pedagogy 300	
Music Pedagogy 301 or 302	
Music Applied - Major	
	······

Music Applied - Minor Music Ensembles - Major Recital Hour – Music Applied 100 (3 quarters) Humanities (GER) Speech 110 or 377	
History 101 or above Natural Sciences (GER)	
Junior Year	33
Music Theory 330 or 370	ר
Music Theory 302	
Music Theory 203	
Music Elective	ນ ຊ
Music History 301, 302, 303	. 6
Music Applied - Major	
Music Applied - Minor	
Music Applied 399 (Undergrad Recital)	0
Recital Hour - Music Applied 100 (3 quarters)	0
Music Ensemble - Major	
Natural Sciences (GER)	
Foreign Language	6
Senior Year	35

6
6
0
0
6
3
31
131

Bachelor of Arts in Music Curriculum (BA)

The Bachelor of Arts in Music curriculum is designed for the student who has a strong interest in music and also wishes to pursue a minor in another area. For their minor, music students will take 21 hours in:

- a) another subject (as outlined in this Catalog) or
- b) Music with an emphasis in theory, history, applied, pedagogy, and/or ensemble.

Music students may also elect to not have a minor. Minor plans must be approved by the Music advisor and Coordinator of Music and should be based on the individual needs of the student. In addition to their major and minor, they will complete the rest of the work indicated in the curriculum below.

Freshman Year
Computer Literacy (GER)
Music Technology 301
English (GER)
Mathematics (GER)
Mathematics 101
Humanitics (GER)
History (101 or above)
Music Theory 101, 102
Music Applied - Major
Music Applied - Minor
Music Ensembles - Major
Recital Hour - Music Applied 100 (3 quarters)
Natural Sciences (GER)
Elective.
32
Sophomore Year
Music Theory 103, 201, 202

Music Applied - Major	3
Music Ensembles - Major	3
Music Applied 100 (3 quarters)	
Mathematics (GER)	3
Humanities (GER)	
Speech 110 or 377	3
Natural Sciences (GER)	
Social Sciences (GER)	
Minor Electives	9

Junior Year
Music Theory 2032
Music History 301, 302, 303
Music Applied - Major
Music Applied - Minor1
Recital Hour - Music Applied 100 (3 quarters)0
Music Ensemble - Major
Humanities (GER)
English (201 or above)
Foreign Language
Minor Subject

33

	33
Senior Year	
Music Applied - Major	3
Recital Hour - Music Applied 100 (3 quarters)	0
Music Applied 399 (Undergrad Recital)	0
Music Ensemble - Major	
Music Elective	
Social Sciences (GER)	6
Natural Sciences (GER)	
Humanities (GER)	
Foreign Language	6
Minor Subject	
	27

Department of Professional Aviation

Mission/Objectives

The Professional Aviation curriculum combines flight training with both aviation technical courses and non-aviation University studies.

The department offers the Bachelor of Science degree with majors in:

- Professional Aviation
- Aviation Management.

Requirements for Admission

The student must pass an appropriate physical examination administered by a Federal Aviation Administration designated medical doctor.

Requirements for a Major in Professional Aviation

A major in Professional Aviation consists of 53 semester hours of aviation courses. Every professional aviation major must have an approved minor, 21 semester hours minimum (or possess an associate degree). Students are encouraged to select a minor that will provide a career enhancement option. This minor will be declared by the beginning of the junior year.

Professional Avi	ation Curricu	lum (B.S.)
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Freshman Year
English (GER)
Mathematics (GER)
Mathematics 101 and 212
Humanities (GER)

English 201 or 202
Social Science (GER)
Psychology 102
Social Sciences (GER)
Professional Aviation 101, 102, 110, 111, 208
31
Sophomore Year
Humanities (GER)
History 201 or 202
Natural Sciences (GER)
Physics 205, 206
Professional Aviation 239, 240, 241, 242, 243 10
Professional Aviation 200
Arts (GER)
Social Science (GER)
Directed Elective

31

Junior Year	
Humanities (GER)	
English 303	.3
Speech 377	.3
Professional Aviation 303, 322, 331	. 8
Professional Aviation 340, 341, 342, 343, 344	. 8
Minor Field	
	31
Senior Year	
Natural Sciences (GER)	
Biological Science	.3
Professional Aviation 400, 410, 411, 414	.7
Professional Aviation 419, 491, 495	.7
Minor Field	12
Directed Elective	.3
	32

With department head approval, Professional Aviation 496, Internship in Aviation, may be substituted for appropriate upper division professional aviation courses in a declared aviation minor.

*Directed Elective chosen from Professional Aviation courses by student in consultation with advisor.

Requirements for a Major in Aviation Management

A major in Aviation Management consists of 33 semester hours of aviation courses to include a Private Pilot Certification in addition to an intensive and directed curriculum of business and psychology courses designed to prepare students for managerial positions in the aviation industry. The focus is on flight operations management. The aviation management curriculum does not require a minor.

Aviation Management Curriculum (BS)

Aviation Management Curriculum (DS)
Freshman Year
English (GER)
Mathematics (GER)
Mathematics 101
Natural Sciences (GER)
Biological Science 101
Social Science (GER)
Psychology 102
Political Science 201
Sociology 201
Professional Aviation 101, 102, 110, 111, 208
31
Sophomore Year
Humanities (GER)
History 201 or 202
English 201 or 202
Natural Sciences (GER)

Physics 205 and 206	
Quantitative Analysis 233	3
Fine Arts (GER)	
Psychology 202	
Mathematics (GER)	_
Mathematics 212	3
Directed Elective	3
Professional Aviation 223	

30

123

Junior Year	
Humanities (GER)	
English 303	
Speech	
Management 310, 333	6
Computer Information Systems 310	3
Professional Aviation 316.	3
Professional Aviation 303, 315, 320, 322, 332, 332	14

	32
Senior Year	
English 463	
Psychology 487 or 465	3
Professional Aviation 440	
Management 447, 470	6
Professional Aviation 407, 490, 491	
Professional Aviation 495 and (496 or 498)	
	30

With Department Head approval, Professional Aviation 496 (Internship in Aviation) may be substituted for appropriate upper division professional aviation courses.

Requirements for a Minor: Non-Professional Aviation Majors

Non-aviation majors may obtain a minor in Professional Aviation. This minor consists of completion of the requirements for a Private Pilot Certificate plus 13 semester hours of upper-level aviation courses approved by an advisor.

Requirements for a Minor: Professional Aviation Majors

Aviation Management minor: This minor consists of 21 hours of aviation management courses and credit for an approved management internship.

Special Flight Fees

Additional fees are required for each flight course. A schedule of these fees can be obtained by writing the Department, or at <u>www.aviation.latech.edu</u>.

Department of Social Sciences

Mission

As part of a liheral arts philosophy, the Department of Social Sciences at Louisiana Tech offers an education which provides a firm foundation for professional work or graduate school for majors in geography, sociology, political science, and pre-law. The department affords students opportunities to sample knowledge from all fields; to develop writing, problemsolving, and interpersonal skills sought by employers; and to acquire the sort of liberal arts background which enriches a lifetime of political, social, cultural, and leisure-time activities.

Objectives

- to obtain the information and skills that are necessary prerequisites for rewarding and satisfying professional employment
- to acquire the substantive knowledge that allows a university graduate to be admitted to the company of educated men and women

- to learn to think, speak, and write clearly and effectively
- to achieve an appreciation for the ways in which we gain our understanding of other societies and to enable students to view themselves in other, wider contexts
- to gain proficiency in explaining and defending one's views
- to relate a liberal arts education to career and life decisions in a way that allows the individual to make discriminating moral choices

The Department of Social Sciences offers the Bachelor of Arts degree with majors in:

- Geography
- Political Science
- Sociology

Requirements for a Major

Thirty semester hours of prescribed courses in geography, political science, or sociology constitute a major in those subjects in the Department of Social Sciences. Minor requirements are determined by the department in which it is offered. Every department major will consult with his/her advisor during each registration period and throughout the term as necessary.

The degree of Bachelor of Arts is conferred upon completion of any of the curricula: geography, political science, and sociology.

Geography Curriculum (BA)

Freshman Year
English (GER)
Humanities (GER)
English
History 101, 102
Speech
Mathematics (GER)
Mathematics 101
Statistics 200
Geography 203, 205
017
30
Sophomore Year
Natural Sciences (GER)
Geology 111
Natural Sciences (GER)
History 201, 202
English 202
Foreign Language
Geography 210
Geography Electives
30
Junior Year
Arts (GER)
Natural Sciences (GER)
Biological Science
Social Sciences (GER)
Economics 215
Political Science 201
Sociology 201
Foreign Language
Geography Electives
Seegraphy Electron
30
Senior Year
Computer Literacy (GER)
CEOPERATIVE A
Geography Elective
Sociology Elective
Sociology Elective
Sociology Elective

Total Semester Hours	123
(GER): General Education Requirement (pg. 14)	

Political Science Curriculum (BA)

Freshman Year	
English (GER)	6
Humanities (GER)	
English 101	3
History 101, 102	
Speech 110	3
Mathematics (GER)	
Mathematics 101	3
Statistics 200 or Mathematics 125	3
Social Sciences (GER)	
Geography	3
Natural Sciences (GER)	

History 201

	53
Sophomore Year	
Arts (GER)	
Elective	
English 202	
Foreign Language	
History 202	
Natural Sciences (GER)	
Political Science 201, 302	
Political Science Elective	

Junior Year	
Natural Sciences (GER)	3
Social Sciences (GER)	
Economics 215	3
Sociology 201	3
Sociology Elective	
Foreign Language	6
Philosophy	
Political Science 345	3
Political Science Electives	6

Senior Year	
Electives	
Political Science	
	30

Total Semester Hours	3
(GER): General Education Requirement (pg. 14)	

Sociology Curriculum (BA)

Freshman Year
English (GER)
Foreign Language/Cultural Studies*9
Humanities (GER)
History
Mathematics (GER)
Mathematics 101
Sociology 201
Natural Sciences (GER)

	55
Sophomore Year	
Arts (GER)	
Humanities (GER)	
English 201 or 202	
Speech 110	
Mathematics (GER)	
Mathematics 125	
Natural Sciences (GER)	3
Social Sciences (GER)	
Sociology	
Electives	

English Elective	
	33
Junior Year	
Social Sciences (GER)	
Political Science 201.	
Political Science	
Sociology 308 or 345	
Sociology 320 (GER)	
Sociology Electives	
Psychology 102	
Psychology 202	
Electives	6
	30
Senior Year	
Sociology 401	
Sociology Electives	
Statistics	
Electives	12
	27
Total Semester Hours	

*Cultural Studies courses include Geography (Geography 205, 210, 290, 321), History and Archaeology (History 440, 441, 442, 444, 483, 484, Archaeology 420, 462, 463, 464, 466), and English (English 406, 425, 426, 427, 428, 430, 482). Students may choose 9 hours in one area or they may choose 3 hours in each of the areas. Courses chosen to satisfy cultural studies may be used toward a minor but may not be used toward any other curricular requirements.

Requirements for a Minor in Geography

A minor in geography consists of 21 hours, of which 9 must be at the 300 or 400 level.

Requirements for a Minor in Political Science

A minor in political science consists of 21 hours, of which 9 must be at the 300 or 400 level.

Requirements for a Minor in Sociology

A minor in sociology consists of 21 hours, of which 9 must be at the 300 or 400 level.

Requirements for the Interdisciplinary Minor in Gerontology

(24 semester hours - at least 10 hours must be from courses 300 level or above.)

Core Courses (15 semester hours): Family and Child Studies 201 or Psychology 408 (3 semester hours); Health and Physical Education 406 (3 semester hours); Sociology 435 (3 semester hours); Family and Child Studies 447 (3 semester hours); Education 420; Health and Physical Education 112; Human Ecology 467, 477, 478, or 479; or Sociology Practica (3 semester hours).

Electives (9 semester hours): Select 9 hours from the courses listed below. Courses selected must be approved by your advisor. It is strongly suggested that ALL students elect either Psychology 475 or Sociology 436 that relate to death and grieving. Counseling 400; Family and Child Studies 210, 320, 400, 420; Food and Nutrition 203; Health and Physical Education 292, 401, 416; Psychology 474, 475, 480, 499; Sociology 308, 425, 436.

Interdisciplinary Minor in Cultural Resources See Department of History.

Political Science (Pre-Law Concentration)

The pre-law concentration within political science is specifically designed to prepare students to succeed in law school. It consists of a political science major and an English or journalism minor, together with selected other required courses, core curriculum courses, and electives. Entering freshmen must have a minimum 22 composite on the ACT. A 2.5 GPA is required to transfer into the program and must be maintained by students in the program. Students are advised that a minimum GPA of 3.0 or higher is suggested as the GPA typically

30

30

33

necessary for admission to law school. Students wishing to pursue this concentration should follow the political science curriculum outlined above with the following differences:

- History (101 and 102 or 201 and 202, instead of all four courses)
- Foreign Language (6 hours instead of 12)
- English or Journalism (Must minor in either English or Journalism.)
- English minors must include English 303, 332 or 336 or 460, 415.
- Journalism minors must include Journalism 101, 102, 310, 320, plus 9 additional hours of advanced courses. (300- and 400- level), including any two courses in practical journalism).
- Law (Must take Business Law 255, 356 and Political Science 426, 427 - Constitutional Law)

Department of Speech

Objectives

The in Speech (Communication major Studies concentration) is designed to allow the student to study communication that includes all forms of interpersonal, small group, organizational, public, and mass communication. The Speech curriculum has 33 semester hours of core courses that are concentrated in contemporary theory, research, and practical application of communication principles. The undergraduate major focuses on communication in interpersonal and organizational contexts. Additionally, the curriculum offers a variety of elective hours for course work in one of four tracks of emphasis: general, corporate communication, public relations, and law and related professions. While the degree can lead directly to careers in public relations, corporate consulting and advertising, it also serves as a rigorous discipline enabling students to pursue graduate work in a variety of fields.

The major in Pre-Professional Speech-Language Pathology is designed to prepare a student for graduate study in speechlanguage pathology or audiology. The undergraduate preparation includes a broad educational experience in the liberal arts and sciences and a strong foundation in addition to basic course work in normal and disordered speech, language, and hearing. The undergraduate/pre-professional degree is the first degree that leads to graduate study for speech-language pathologists and audiologists. The master's degree is considered to be the entry-level degree for most professional settings.

The Department of Speech offers the following degrees:

- BA in Speech (with concentrations in Communication Studies or Theatre)
- BA in Pre-Professional Speech-Language Pathology

The BA in Speech, Language, and Hearing Therapy is also offered through the College of Education (See College of Education for details).

Requirements for a Major

A major in Speech consists of 33 hours which may be earned by concentrating in speech communication, theatre, or preprofessional speech-language pathology. The student concentrating in speech communication/interpersonal and organizational communication is expected to take the following courses: Speech 110/377, 325, 430, 431, 433, 440, 455, 466, plus 9 additional hours in speech. In addition, 21 hours of specialized study in one of three tracks (corporate communication, public relations, or law and related professions) will be approved by the student's advisor. Students interested in Theatre should consult the Director of the School of the Performing Arts regarding the appropriate courses for a major concentration in Theatre. Please refer to the section on the School of the Performing Arts on page 117 of this Catalog. The degree of Bachelor of Arts is awarded upon completion of either the speech curriculum or pre-professional speech-language

pathology curriculum.

Speech Curriculum (BA)
Freshman Year
Arts (GER)
Natural Sciences (GER)
Biological Science 101, 102
English (GER)
Mathematics (GER)
Mathematics 101 and 125
Speech 110/377, 325, Elective
30
Sophomore Year
Humanities (GER)
History 201, 202
Foreign Language*
Computer Literacy (GER)
Speech 440, Elective
Electives or Minor
HPE 150
30
Junior Year
Social Sciences (GER)
Political Science 201
Natural Sciences (GER)
Must be Physical Science
Humanities (GER)
English 201 or 202
Speech 430, 455
Electives or Minor
HPE Activity
Senior Year
Social Sciences (GER)
Psychology
Sociology 201
Speech 431, 433, 466
Speech Elective
Electives or Minor
30
Total Semester Hours
(GER): General Education Requirement (no. 14)

(GER): General Education Requirement (pg. 14) Nine hours foreign language requirement must be in the same language.

Pre-Professional Speech-Language Pathology Curriculum (BA)

Freshman Year
Arts (GER)
Natural Sciences (GER)
Biological Science 101, 102
English (GER)
Mathematics (GER)
Mathematics 101
Statistics 200
Speech 110, 202, 210, 222
31
Sophomore Year
Computer Literacy (GER)
Humanities (GER)
English 201 or 202, 332
Natural Sciences (GER)
Physics 205
Social Sciences (GER)
Psychology 102
Special Education 300
Speech 301, 302
Biological Science 224

Junior Year	
Social Sciences (GER)	
Political Science 201	3
Sociology 201	3
Humanities (GER)	
History 201, 202	6
Speech 418, 443, 470	9
Family and Child Studies 201, 331	6
Minor	6
	33

	22
Senior Year	
Family and Child Studies 301, 410	6
Health and Physical Education 150	2
English 303	
Speech 411, 413	6
Minor	15
	32

Requirements for a Minor in Speech

The following courses are required to complete a Speech (Communication) minor: Speech 110/377, 430, 431, 440, 466, and 6 additional hours of Speech (Communication) courses.

School of the Performing Arts - Theatre

Mission

The Louisiana Tech University School of the Performing Arts provides comprehensive training in the fields of music, theatre, dance, and arts management, which connects the broad spectrum of historical and contemporary issues related to arts in product and process. It promotes the relationship between theory and practice, prepares professionals and teachers for leadership in national and international culture and art for the twenty-first century.

Admission to the Program

Auditions/interviews for placement within the program are required. These occur prior to enrollment or within the first two weeks on campus. Auditions may take place in a variety of formats: prepared performance pieces, portfolio presentation, or interviews. Students may contact the Coordinator of Theatre or the Director for the School of the Performing Arts for additional information.

Requirements for a Major

Theatre majors will enroll in the Theatre Practicum (SPTH 404) for no less than 9 quarters before graduating. Boards will be held during Winter Quarter so that the faculty can evaluate each student's progress and set goals for the future. Students are required to attend weekly major/minor meetings, which serve as a forum for information, discussion of issues, and notification of departmental concerns and professional opportunities.

Bachelor of Arts in	Speech with a	Concentration in	Theatre
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Freshman Year	
Arts (GER)	
Speech Theatre 201 or 290	3
Natural Sciences (GER)	
Biological Science 101, 102.	6
English (GER)	6
Math (GER)	6
Speech Theatre 101, 240, 404 (3)	9

Sophomore Year	
Humanities (GER)	
History 201, 202	6
Foreign Language*	9

Computer Literacy (GER)
Speech Theatre 409, 404 (3)
Electives
30
Junior Year
Natural Science (GER)
Social Science (GER)
Humanities (GER)
English 201
Speech Theatre 428, 434, 435, 404 (3) 12
Humanitias (CED)
Speech 110
Electives or Minor
Senior Year
English 415
Social Science
Psychology 102
Sociology 102
Speech Theatre 307, 407
Electives or Minor
Total Semester Hours

(GER): General Education Requirements (pg. 14) *Nine hours of foreign language requirement must be in the same language

Requirements for a Minor in Theatre

A minor in Theatre is designed for those who have a strong interest in Theatre as a secondary subject. A minimum of 21 hours is required: Speech Theatre 101, 201, 240, 404 (3), and 9 additional hours to be chosen from 300- or 400-level theatre courses. For additional information on the School of the Performing Arts, see page 90.

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Chapter 15 - The Graduate School

Administration

Executive Vice President and Dean Terry M. McConathy

Address

Wyly Tower, Room 1642 Railroad Avenue P. O. Box 7923 Ruston LA 71272 (318) 257-2924 www.latech.edu/tech/gradschool/

Mission

The Graduate School offers the administrative structure, leadership, and guidance necessary to support graduate education at Louisiana Tech University. The staff members of the Graduate School work with the Vice President for Academic Affairs, the Graduate Council, the academic dcans, and the graduate programs and faculty to help provide students with a superior educational and research environment within which to pursue rigorous, challenging, and relevant graduate and professional degrees.

Administration

The Dean of the Graduate School administers and coordinates the graduate programs of the University. Graduate instruction is supervised by the appropriate academic deans, directors of graduate studies, department heads, and graduate faculty under policies set forth by the University of Louisiana System and the Graduate Council chaired by the Dean of the Graduate School. The President of the University is the final local authority in the operation of the graduate program.

Student Responsibility

Each graduate student must assume the responsibility for becoming knowledgeable concerning Graduate School regulations and requirements.

Graduate Programs

Graduate degrees granted by the University are

- Master of Arts
- Master of Arts in Teaching
- Master of Business Administration
- Master of Education (fifth-year program)
- Master of Fine Arts
- Master of Professional Accountancy
- Master of Science
- Doctor of Audiology
- Doctor of Business Administration
- Doctor of Education
- Doctor of Philosophy
- Joint MD/PhD with LSUMC-Shreveport

The graduate degrees and curricula, hy colleges, are as follows:

College of Administration and Business

- Master of Business Administration
- Master of Professional Accountancy
- Doctor of Business Administration

College of Applied and Natural Sciences Master of Science; curricula available as follows:

- Biology
- Family and Consumer Sciences
- Molecular Sciences & Nanotechnology
- Nutrition and Dietetics

College of Education

Master of Arts; curricula available as follows:

- Counseling and Guidance (with concentrations in School Counseling or General Counseling)
- Educational Psychology
- Industrial/Organizational Psychology

Master of Arts in Teaching; curricula available as follows:

- Early Childhood Education (PK-3)
- Elementary Education (1-6)
- Middle School Education Grades (4-8) Mathematics
- Middle School Education Grades (4-8) Science
- Secondary Education (with concentrations in Agriculture Education, Business Education, English Education, Foreign Education, Language General Science/Biology Education, General Science/Chemistry Education, General Science/Earth Science Education. General Science/Physics Education, Mathematics Education, Social Studics Education, Speech Education)
- Special Education M/M (1-12)

Master of Science; curricula available as follows:

- Curriculum and Instruction
- Health and Physical Education
- Master of Education 5th-Year Program/Certification
 - Education (with concentrations in Art Education, Health and Physical Education, Music Education, Teaching Blind Students)

Doctor of Education; curricula available as follows:

- Curriculum and Instruction
- Educational Leadership
- Doctor of Philosophy; curriculum available as follows:
 - Counseling Psychology

College of Engineering and Science

- Master of Science; curricula available as follows:
 - Computer Science
 - Engineering & Technology Management
 - Mathematics
 - Microsystems Engineering
 - Molecular Sciences & Nanotechnology
 - Physics
 - Engineering (with concentrations in Biomedical Engineering, Chemical Engineering, Civil Engineering, Electrical Engineering, Industrial Engineering, Mechanical Engineering)

Doctor of Philosophy; curricula available as follows:

- Biomedical Engineering
- Engineering
 - Computational Analysis and Modeling
 - Joint MD/PhD with LSUMC-Shreveport
- **College of Liberal Arts**

Master of Arts; curricula available as follows:

- English
- History
- Speech
- Speech-Language Pathology and Audiology Master of Fine Arts; curriculum available as follows:
 - Art

Doctor of Audiology

Graduate School Admission

Certain minimum admission standards are established by the Graduate Council for the University. Each academic college has the prerogative to be more selective and to establish higher standards for its respective graduate students.

For admission to Graduate School, an applicant must satisfy all general admission requirements for Louisiana Tech University. Application forms for admission may be obtained from the Graduate School or downloaded from the Graduate School web site. All necessary official transcripts, standardized test scores, and admission application forms with any required fees must be received in the Graduate School at least 4 weeks in advance of registration for the session in which the student expects to enroll. Transcripts must be mailed directly from the college/university to Louisiana Tech. Any credentials missing before a student's first complete term of enrollment *will result in the student not receiving graduate credit*, nor will an official Louisiana Tech academic transcript be provided to the student.

A student will not receive graduate credit for any course taken unless he or she has complied with the admission procedures and has been accepted for admission to the Graduate School.

Admission by transfer:

1. Student must meet Tech's entrance requirements.

- 2. Student must be eligible to re-enter the institution from
- which the applicant is transferring.

International student transfer:

The International Student Office will handle the immigration transfer process for international students arriving from other U.S. schools including issuing a new I-20 immigration document. Students usually receive the I-20 when they arrive on campus so that the transfer can be completed legally and safely. Students must have an official from the previous school sign a "Foreign Student Advisor Transfer Report" and return it to the Louisiana Tech University International Student Office before their arrival.

Note to International Graduate Students: Upon arrival at Louisiana Tech, an international graduate student *must* enroll for a minimum of one quarter in the program he or she was approved for and admitted to. After fulfilling this requirement, a student may apply for transfer to another program by following the Graduate School's admission procedures.

Summary of Admission Procedures

- Obtain application for admission form from Graduate School - 5 weeks prior to registration. International students should obtain an admission application far enough in advance of deadlines to allow sufficient processing time and make the necessary travel arrangements to arrive on campus prior to registration.
- Return completed forms and application fee to the Graduate School - 4 weeks prior to registration. International students should return completed forms and application fee by the deadlines for international students as listed on the application.
- Request all official transcripts and test scores be sent to the Graduate School.
- Comply with any additional requirements of individual graduate programs as specified in this Catalog. Additional requirements are also available from the Director of Graduate Studies in each college, and deadlines of additional requirements may vary.
- Follow registration procedures outlined on the Louisiana Tech web site (B.O.S.S.) or in the quarterly Schedule of

Classes ("The Racing Form") available from the University Registrar during each registration period.

Transcripts

Policies governing the submission of transcripts for all graduate students are as follows:

- Transcripts must be mailed directly from the college/university to Louisiana Tech University.
- Students in pursuit of a *master's* degree or applying for *unclassified* status must submit *all* official undergraduate transcripts (regardless of the number of colleges attended in order to earn the baccalaureate degree) so that a full evaluation of the grade point average may be made. In addition, all transcripts of any graduate work attempted at other colleges and universities are required.
- Students in pursuit of a *doctoral* degree must submit *all* official transcripts (undergraduate and graduate) for evaluation of eligibility for these programs.
- Students in pursuit of the "*Master's Plus 30*" program must submit only the official transcript certifying receipt of the master's degree from a regionally accredited institution.
- Students applying for *transient* status must submit only an official copy of a transcript certifying that they are actively pursuing an advanced degree at another institution.
- If permission to enter the Graduate School is given prior to graduation, this admission is automatically withdrawn if the Bachelor's degree is not awarded before the date of registration.

Graduate Non-Degree Admission Categories

Unclassified

Students seeking graduate credit but not seeking a higher degree must meet the same academic requirements for admission to Graduate School as students admitted to work toward a master's degree. Application of credit earned as graduate Unclassified toward a graduate degree will require unconditional admission to a graduate program, a written appeal for degree credit by the student, and approval by the college administering the program. Up to 12 semester credit hours so earned may be applied to a master's degree.

Transient

Students admitted to a graduate program at another institution wishing to take a course(s) for transfer credit may be allowed to take such a course(s) with the approval of the Director of Graduate Studies in the college in which he or she would normally enroll. Students applying for *transient* status must submit only an official copy of a transcript certifying that they are actively pursuing an advanced degree at another institution. A maximum of 12 hours of transient credit will be allowed. Transcripts shall note that such credit is for transfer only

Master's Plus 30

Students who have earned a master's degree from a regionally accredited institution are admissible to the Graduate School on this basis. However, this action does not automatically admit the student to any specific program of study within the Graduate School.

Extension

This category is available to students at a Louisiana Tech Extension Site wishing to enroll in an extension course for graduate credit without applying for and being admitted to a graduate degree program. Students wishing to enroll in this category must produce an unofficial copy of their baccalaureate degree-posted transcript, meet course prerequisites, have a cumulative undergraduate GPA of 2.25 (or 2.5 on the final 60 semester hours), and understand that *they are not admitted to a degree program.* A maximum of 9 semester hours of graduate credit are allowed under this non-degree admissions category. Use of this credit toward a graduate degree at a later date will be determined by application and unconditional admission to the Graduate School for a valid graduate degree program.

Inter-Institutional Cooperative Program (ICP)

Students may enroll in graduate courses through the ICP program between Louisiana Tech and Grambling State University. Students participating in the ICP program must apply for *transient status* and follow the appropriate admission procedures. Courses taken through the ICP program must be included on a student's approved Plan of Study in order to count towards degree requirements, and all course prerequisites must be met. Students not in good standing at one university are not eligible to enroll in graduate courses at the other university. Additional information may be obtained from the Office of the Registrar, 318/257-2176.

Residency Regulations for Tuition Purposes

The residence status of an applicant or student is determined in accordance with the University of Louisiana System regulations and is based upon evidence provided in the application for admission and related documents. Residency status is not determined for students registered for 3 credit hours or less. All students classified incorrectly as residents are subject to reclassification and payment of all non-resident fees not paid. If incorrect classification results from false or concealed facts by the student, the student is also subject to university discipline. Students should refer to the conditions used to determine residency status under the "Undergraduate Admissions" heading at the beginning of this Catalog for specific residency classification regulations. Any appeals of residency classification should follow the guidelines provided.

Graduate Degree Admission Categories

Unconditional Admission

Unconditional admission requires that the applicant must have carned a bachelor's degree from a regionally accredited college. The final decision rests with the Dean of the Graduate School and is based upon the recommendation of the admissions officials of the academic college the student wishes to enter. The following are minimum requirements for unconditional admission consideration:

- Minimum 2.50 (4.0 system) grade point average on all work attempted or 2.75 on the last 60 hours attempted.
- Satisfactory scores on standardized test(s) specified by the academic college.

Applications for the appropriate test may be obtained from the Counseling Center, Keeny Hall, Room 310. Students qualifying for unconditional admission who have not submitted a standardized test score may be allowed to submit the test score during their first quarter of enrollment as a graduate student, unless otherwise specified by the appropriate college. Students who fail to submit a satisfactory test score by the specified deadline will be dropped from graduate status until a satisfactory test score has been received; those students unconditionally admitted who do not submit a satisfactory test score will be subject to reexamination by the admissions officials of the appropriate academic college. Students must obtain unconditional status and meet all admission requirements prior to graduation from Louisiana Tech University.

Conditional Admission

Conditional admission may be gained by those applicants not qualified for unconditional admission, while satisfying or validating his/her undergraduate deficiencies or meeting other conditions of admission. The final decision rests with the Dean of the Graduate School and is based upon the recommendation of the admissions officials of the academic college the student wishes to enter. The following are minimum requirements for conditional admission consideration:

- Minimum 2.25 (4.0 system) grade point average on all work attempted or 2.50 on the last 60 hours attempted.
- Maximum of 9 semester hours may be earned while fulfilling stipulated conditions. If the conditions are not removed after 9 hours of course work, the applicant will be dropped from the Graduate School.

Conditional status may be changed to unconditional status when a student earns a minimum of 9 hours of graduate credit at Louisiana Tech, *provided* he or she has fulfilled the conditions of admission and has a **B** average on all work pursued for graduate credit, including no grade lower than C and not more than one course with a grade of C.

Readmission

Applicants for readmission to Louisiana Tech must complete a new application for admission form when the student has not been enrolled *for two or more quarters* (except for the summer term), and a new application fee is required.

If a student has been out of school for only one regular quarter (excluding the summer term), then a written request for readmission (readmission form) to the same degree program should be submitted to the Graduate School. There is *no application fee required* for this process. However, students changing degree programs will need to complete a new application for admission and pay an application fee unless the degree program is within the same college of their current degree program.

Testing

Colleges may require that a student wishing to enter Graduate School take the appropriate test(s). Applicants for admission should contact the individual college for specific requirements:

- College of Administration and Business: Graduate Management Admission Test (GMAT).
- College Applied and Natural Sciences: Graduate Record Examination (GRE-general).
- College of Liberal Arts: Graduate Record Examination (GRE-general).
- College of Education: Graduate Record Examination (GRE-general).
- College of Engineering & Science: Graduate Record Examination (GRE-general).
- All international students are required to submit a score on the Test of English as a Foreign Language (TOEFL) before their applications can be evaluated. The test must be taken no earlier than 2 years prior to application. Minimum acceptable test scores:
 - Paper-based TOEFL is 550
 - Computer-based TOEFL is 213.

For additional information and to register for these tests, contact the Counseling Center, P. O. Box 5255, Ruston, LA 71272. Or, call (318) 257-2488.

Graduating Seniors as Part-Time Graduate Students

A graduating senior at Louisiana Tech University in the last quarter of his/her academic program who has a 3.0 or better average on all work attempted may be permitted to take a combined load of undergraduate courses and courses for graduate credit (500 level) not to exceed 12 semester hours with a limit of 4 hours for graduate credit. Students must obtain the recommendation of the appropriate college Graduate Director and written approval by the Dean of the Graduate School.

Baccalaureate and Master's Program Concurrent Enrollment

Undergraduate seniors who have a minimum cumulative undergraduate GPA of 3.2 on all undergraduate work attempted may be allowed to register for graduate credit if they meet the following criteria listed in the University of Louisiana System regulations for students desiring concurrent enrollment in baccalaureate and master's degree programs. Students not meeting undergraduate preparatory requirements will not be eligible for this program.

- Student must obtain written approval of the appropriate graduate director/coordinator, academic dean, and the Dean of the Graduate School.
- Student must provide a minimum of 2 letters of reference along with a graduate application and application fee.
- Student lacks no more than 30 semester hours to complete baccalaureate degree requirements.
- Student may earn no more than 12 graduate credit hours while completing baccalaureate requirements.
- Courses taken for graduate credit cannot be used to satisfy undergraduate requirements.
- The student retains the undergraduate status until he/she is awarded the baccalaureate degree.
- While in the concurrent program, the student shall maintain a minimum cumulative graduate GPA of 3.0.

At the time of matriculation from the baccalaureate program and upon application to the graduate program, students enrolled in the Baccalaureate and Master's Concurrent Enrollment Program will be required to meet the same admission requirements as other applicants to the Graduate School.

Students seeking admission to a Master's program, other than the program in which they were granted concurrent enrollment, must meet the same admission requirements as other applicants to the program to which they are seeking admission. GRE and GMAT scores will be waived for students admitted to the Baccalaureate and Master's Concurrent Enrollment Program *provided* they continue to pursue the degree for which they were initially admitted and maintain all other conditions to retain graduate status.

Doctoral Program Admission

Applicants for admission to the programs of study leading to the doctoral degree either will be granted an unconditional admission or will be rejected. It is emphasized that no quantitative standards are set and that admission is a judgment of the admissions officials of the appropriate college. These officials make their recommendation to the Graduate School Office.

The following are minimum admission criteria utilized in making a determination of admission eligibility:

• Minimum preparation to proceed at the doctoral level of study.

• A bachelor's degree from a recognized institution.

• A transcript demonstrating sufficient undergraduate preparation for advanced study in both major and minor fields.

- A master's degree is recommended.
 - Acceptable test scores on GRE or GMAT.

Applications for these tests may be obtained from the Counseling Center, Keeny Hall, Room 310.

• A minimum of 3 references is required at the direction of the admitting college.

• A locally administered screening or qualifying examination, or an interview of the applicant may be required at the direction of the admitting college.

The Graduate School will receive and expedite the handling of all admission documents. Complete transcripts of the applicant's undergraduate and graduate record, and of all academic work taken at other institutions, must be submitted to the Graduate School in order to have a doctoral application considered. The applicant should consult the doctoral admission requirements for the appropriate college in order to determine that area's specific requirements as to test scores and other items. Each academic college has the prerogative to be more selective and to establish higher standards for its respective graduate students.

General Requirements for All Advanced Degrees Courses

All 500-level courses arc open to graduate students. Courses numbered in the 600- and 700-level generally require doctoral classification and are specifically associated with doctoral programs. There are courses numbered in the 400-level that are usually for seniors but may carry graduate credit. Graduate students taking 400-level courses for graduate credit are required to undertake additional work in order to bring the course requirements up to graduate level.

The semester hour is the unit of credit at Louisiana Tech. Most courses carry a credit of 3 semester hours. Credit for each course is indicated by a three-digit numerical description, for example, 0-3-3: the first number indicates laboratory contact hours per week; the second, locture periods per week; and the third, credit in semester hours.

Courses taken by graduate students that do not appear on an approved plan of study will not apply toward meeting the requirements of any graduate degree. In order to pursue and/or receive a graduate degree, students must first be admitted to that specific degree program.

Grading System

Official grades are maintained in the University Registrar's Office. Louisiana Tech applies a traditional system of grading and awards quality points for grades earned. An \mathbf{A} is awarded for the highest degree of excellence that is reasonable to expect of students of exceptional ability and application. A grade of \mathbf{B} is superior. A grade of \mathbf{C} is average. A grade of \mathbf{D} is given for a quality of work that is considered the minimum for receiving credit for the course. A grade of \mathbf{F} is given for a failure, and the work must be repeated to receive academic credit. The University's grading system is as follows:

Grade	Number of Quality Points
A	4 quality points per semester hour
В	3 quality points per semester hour
С	2 quality points per semester hour
D	I quality points per semester hour

F	0 quality points per semester hour
ł	Incomplete (see explanation below)
S	Satisfactory (see explanation below)
W	Withdrew (see explanation below)
NC	No Credit (see explanation below)

Definition of the Incomplete (I) Grade

The grade I (Incomplete) is used to denote failure to complete all assigned class work and/or exams as a result of conditions beyond the student's control. It is the responsibility of the student to initiate a request with the instructor that a grade of I be issued. If the student's work is of passing quality, the instructor may approve the student's request and will assign a grade of I plus the average letter grade on all work completed to that point (e.g. IA, IB, IC, or ID). A grade of IF cannot be issued. If the instructor agrees to issue an I, he/she will complete a standard contract with the student detailing requirements for course completion and specifying the date those requirements must he finished. Instructors then provide a copy of the contract to the student and a copy to the department head/director, Students will receive a grade of IA, IB, IC, or ID for that quarter. Incompletes are factored into hours attempted and quality points awarded. Therefore, they impact a student's quarter and cumulative grade point averages and are a factor in academic probation or suspension decisions.

The maximum amount of time allowed for a student to finish incomplete work is Friday of the fourth week in the following quarter, with one exception: students receiving an I in the Spring Quarter have until Friday of the fourth week in the following Fall Quarter to complete their work. A reminder of this date is published in the academic calendar each quarter and can also be found on the academic calendar at Tech's web site (www.latech.edu).

If the student does not complete the required work within the contracted period, the instructor will change the I to an F by delivering a final grade change to the Registrar's Office by Friday of the fifth week of the quarter. The final grade replaces the I on the student's permanent record (transcript); attempted hours, earned hours, quality points, and quarter/cumulative grade point averages are recalculated applying the final grade. A student may be placed on or removed from academic probation or suspension based on the recalculated GPA at the time an I grade is cleared. I grades are cleared only by completing the required course work, and not by registering for the course again.

NOTE: Students registered for approved research, practicum, dissertation, or thesis courses requiring multiple quarters of the same course registration to complete the research receive an I-A, -B, -C, or -D (or an I-S in the case of Satisfactory/Failure graded courses) for each attempt until the research or practicum is accepted as complete by the advising faculty member. At that time, the graduate student's I grades are changed to the appropriate A, B, C, D, F, or S on his/her permanent record.

Definition of the Satisfactory (S) Grade

A grade of S indicates satisfactory completion of a course. The S grade increases hours earned but does not affect hours attempted or quality points and is not computed in any grade point average (GPA). Students registered for a course where the grade of S is used who do not complete the required course work will receive the grade F.

Definition of the Withdrew (W) Grade

A W is issued when a student withdraws from a class (drops a class) after the final date for registration has passed and before the end of the first seven weeks of a quarter. The W grade will appear on the student's permanent record (transcript), but is not

included in computing the student's GPA. Students who stop attending class(es) without following proper drop/withdraw or resignation procedures (walk-away) will receive an F grade for each class affected.

Definition of the No Credit (NC) Grade

The grade NC (used for undergraduate developmental courses and credit exams) denotes no credit earned or hours charged and is not computed in any GPA calculation.

Calculating Grade Point Average (GPA)

The Quarterly GPA

A student's *quarterly grade point average (GPA)* is obtained by dividing the sum of the quality points earned for the quarter by the number of semester hours attempted that quarter.

The Cumulative GPA

The *cumulative GPA* is determined hy dividing the total quality points earned by the total number of hours attempted. For graduate students, the cumulative GPA is the benchmark figure used to determine continued graduate academic eligibility, graduate academic probation, and removal from graduate status. Quarterly and cumulative GPAs are recorded on the student's permanent academic record (transcript) and reported each quarter with their grades.

Grade Reporting

Students can obtain their grades via Interactive Voice Response (telephone) or on the Internet during the one-month grade reporting period following the completion of each quarter. Specific instructions for access are published quarterly in the *Schedule of Classes*, on the Tech web site, <u>www.latech.edu</u>, and reminders provided hy the University Registrar's Office during early registration. Students needing a copy of their grades after the reporting period may obtain them online or thru BOSS by requesting an unofficial transcript, or and/or specific letters of verification.

Final Grade Appeals Procedure

A final grade in a course represents the cumulative evaluation and judgment of the faculty member placed in charge of that course. If a student feels the final grade in a course was not determined in accordance with University policies or was determined arbitrarily, the student may appeal by adhering to the following procedure:

- 1. Confer with the faculty member, setting forth clearly all points of concern. If unsatisfied with the results of the conference, proceed to the next step.
- 2. Confer with the head of the department in which the course is taught, setting forth clearly all points of concern. If the student remains unsatisfied, proceed to the next step.
- 3. Write a letter of appeal to the dean of the college in which the course is taught. The dean will send copies of the letter to the faculty member and department head. This letter must be
 - received by the dean within the first 10 regularly scheduled class meeting days of the term immediately following the term in which the appealed grade was received; and,
 - an accurate and complete statement of all facts pertaining to the matter. Falsification may result in disciplinary action.

The dean may make a decision, which would be final in the matter, or refer the appeal to the college's Committee on Standards for review and recommendation. The committee's report would be a recommendation to the dean, whose decision would be final. In reviewing the appeals, both the dean and committee would have broad latitude in their procedures and recommendations. They might, for example, request additional information privately from those involved. Or they might choose to invite specified persons, including the student and faculty member, to a meeting to discuss the matter. Whatever their approach, it should take appropriate account of the interests of both the student and faculty member.

In all cases the dean shall communicate the final decision to the student, faculty member, department head, and, if a grade change is involved, to the University Registrar. In appeals where the dean initially makes the decision, the decision should normally be communicated to the student within 10 class days after the appeal deadline. When appeals are referred to the committee, the final decision should normally be communicated to the student by the dean within 20 class days after the appeal deadline.

NOTE: In the case where a faculty member invokes a grade penalty on a student because of academic misconduct, the faculty member will report the incident and penalty to his/her Department Head and to the Office of Student Life. If the student chooses to appeal the sanction, the student will follow the procedures contained in the Academic Honor Code (Section Eight: Appeals) paragraphs of Chapter 4 of this catalog.

Academic Misconduct

Academic misconduct at the University is determined by the faculty member, committee, or other supervisor(s) under wbom such misconduct occurs. The misconduct may occur in an individual elass, a comprehensive exam, a practicum, an internship, a thesis or dissertation, a research project, a multiquarter sequence of courses, or any other academically related matter or setting. Sanctions may range from dismissal from the University or an academic degree program to a failing grade or other penalty as determined by the faculty member, plan of study committee, supervising authority, or judiciary. The student has the right to appeal the charge of academic misconduct in accordance with the procedures contained in the Academic Honor Code (Section Eight: Appeals) paragraphs of Chapter 4 of this catalog.

Graduate Status Appeals Procedure

Recognizing the unique attributes of graduate study, Louisiana Tech University has adopted policies pertaining to the appeal process for issues faced by graduate students. The following policy will be followed by graduate students wishing to appeal decisions related to their status as graduate students or their progress in graduate programs. This policy is to be followed by students wishing to pursue appeals beyond the college to which they have been admitted.

- 1. Form: Graduate student appeals must be presented in writing to appropriate University personnel, as described below. Appeals shall detail the issue to be addressed and a proposed solution to students' appeals.
- 2. **Timeliness:** A student must initiate an appeal of a college-level decision within 10 University class days of the college-level decision being communicated to the student. Each subsequent appeal must be made within 10 University class days of the student being advised of the previous level appeal decision.
- 3. Levels of Appeal: An appeal of a college-level decision must first be made to the Dean of the Graduate School. A student may appeal the decision of the Dean of the Graduate School to the University Graduate

Council. A student may appeal the decision of the Graduate Council to the Vice President for Academic Affairs. A decision of the Vice-President of Academic Affairs may be appealed to the President of Louisiana Tech University.

Grade Requirement

To receive a graduate degree from Louisiana Tech University, a student must have a cumulative GPA of at least 3.0 on all work pursued for graduate credit while registered at Louisiana Tech, as listed on the student's transcript, and a GPA of at least 3.0 on all graduate courses listed on the student's approved plan of study. No grade lower than C and no more than two C's will count toward a graduate degree. If more than two grades of C or below are earned during a student's graduate program and the cumulative GPA is below the 3.0 required, a student will be dropped from graduate status to postbaccalaureate status.

A graduate student unconditionally admitted to a graduate degree or graduate non-degree program (other than extension programs) will be placed on graduate academic probation if his/her quarterly or cumulative GPA, as listed on the student's graduate transcript, drops below 3.0 on all work pursued for graduate credit. The student will be allowed two additional quarters (3 consecutive quarters total) to regain his/her good standing in graduate status by restoring his/her graduate cumulative GPA above the 3.0 minimum and providing he/she earns grades no lower than a B while on academic probation. A student will be dropped from graduate status to postbaccalaureate status if he/she does not fulfill the requirements to be restored from graduate academic probation to unconditional graduate status during the 3 consecutive quarters. The student will be required to appeal his/her dismissal from the graduate program through the appropriate individual(s) in his/her college to the Graduate Council to be reinstated to graduate status.

A graduate student conditionally admitted to a graduate degree or graduate non-degree program is not eligible for graduate academic probation and therefore must maintain a 3.0 graduate average while completing the conditions of his/her graduate admission. Failure to achieve a quarterly and cumulative graduate GPA of 3.0 or better will result in the student being dropped from graduate status to postbaccalaureate status. The student will be required to appeal his/her dismissal from the graduate program through the appropriate individual(s) in his/her college to the Graduate Council to be reinstated to graduate status.

Student Loads

The maximum graduate credit course load for a graduate student is 12 semester hours in a regular session. Not more than 9 hours of this total may be 500-and 600-level courses which will include, in master's programs, research and thesis and/or special non-lecture courses, except with the permission of the student's director of graduate studies. Students who hold full-time assistantships in a regular session will be required to reduce the maximum load by 3 hours. In addition, the appropriate department may require further load reductions. For sessions shorter than I quarter, the maximum load will be 1 hour of graduate credit for each week of the session.

Six graduate semester hours are considered full-time for a graduate student, and 3 graduate semester hours are half-time status. A student receiving an assistantship must be qualified as a full-time graduate student. A graduate degree candidate may carry only the courses required for graduation at the end of the quarter and still be considered a full-time student.

Regulations for Enrollment, Registration, and Graduation

Continuous Enrollment and Registration

Graduate students should remain continuously enrolled while they pursue their graduate program. If circumstances prevent continuous enrollment for one or more quarters (except Summer Quarter), graduate students must apply for readmission upon their return. Graduate students must remain continuously enrolled during the research/practicum phase of their program. Graduate students must comply with time limitations for completion of programs set by policy for the graduate program in which they are enrolled.

Graduate students will conform to the registration schedule of the University and may not enter later than the last allowable date set by the University Registrar. Students requiring a faculty member's time and assistance, laboratory facilities, library services, etc., while engaged in research or practicum, or preparing for or taking examinations must register for a minimum of 3 hours of graduate credit in 551, 590, 690, or Education 580.

During their quarter of graduate study, and before registering for successive quarters, a graduate student must obtain his or her advisor's approval of his/her proposed program (plan of study).

Graduate Status for Graduation

Graduate students are required to register for graduation in the quarter during which they complete all degree requirements. Students who register for graduation and then withdraw must appeal in writing and receive permission from their college and the Dean of the Graduate School to register for graduation in any subsequent quarter. **NOTE**: Graduate International students are required to be enrolled for a minimum of 6 graduate credit hours in their degree program each term until graduation to maintain student visa status.

A candidate for graduation who fails to pass the final examination in only one course during the last quarter's work may be permitted to take a "deficiency examination" in this course. If the student fails the "deficiency examination," the course must be repeated.

Graduation

Commencement exercises are held and advanced degrees may be conferred at the close of any quarter, including the Summer Quarter. A student who is scheduled to receive a degree at the end of a quarter is expected to attend the commencement exercises. Degree candidates are *required* to arrive at the place of assembly *no later than 1 hour before commencement* exercises are scheduled to begin. A candidate can petition to be absent through a written request to the University President.

The applicant for graduation must be registered at Louisiana Tech University. Applications for graduation must be reported to the appropriate director for graduate studies and to the University Registrar by Friday of the third week of the quarter in which the student expects to graduate. Arrangements for caps, gowns, and hoods should be made in the University Bookstore.

Oral Defense of Thesis or Dissertation

Graduate students completing a thesis or dissertation as part of their degree program should check with their academic college for specific requirements. Defense of a thesis or dissertation should be scheduled and take place at least 2 weeks prior to commencement exercises of any quarter. Students unable to meet the deadline may not be allowed to graduate during the quarter.

General Requirements for all Master's Degrees

Some departments impose degree requirements that are more restrictive than the general requirements. The student is advised to check the department or college section of the Catalog for the area of study to be pursued.

Advisory Committee and Plan of Study

Advisors are assigned to each student upon approval for admission to the Graduate School. After consultation with the advisor and/or department head, the academic dean will be requested to appoint an Advisory Committee consisting of 3-5 members of the graduate faculty. It will be the responsibility of the Advisory Committee to counsel with the student and to develop a Plan of Study that is then filed with the Graduate School. Any graduate student following a degree program who has not submitted a Plan of Study by the end of the first quarter of graduate study will not be allowed to register as a graduate student until a Plan of Study has been submitted. Any later revision in the Plan of Study should be reported to the Graduate School. A final Plan of Study must be completed and submitted to the Graduate School prior to graduation.

Minimum Credit Requirement

The minimum credit requirement for the master's degree is 30 semester hours of graduate work, not more than 6 of which may be allowed for research and thesis. In optional programs not requiring a thesis, the standard course requirements should not be less than 30 hours. Students who do not write a thesis must demonstrate acceptable proficiency in research and reporting. A minimum of one-half of the credit for the degree must be in courses open only to graduate students.

Transfer Credits

Upon approval of the department involved, a maximum of 12 semester hours of graduate resident credit, or 1/3 of the hours required for the master's degree, may be transferred for degree credit from a U. S. regionally accredited college or university. The grade earned must be **B** or above, and the credits must be accepted as applicable to the master's degree program by the student's academic college. No correspondence credits are applicable toward a master's degree.

Transfer credit for graduate courses will be posted on the student's transcript only by written request from the student's graduate committee chairperson and approved by the college graduate director. Transfer credit will be posted only for courses listed on the student's approved plan of study.

Thesis

The requirement of a thesis varies within the University; therefore, the prospective student should check the college and/or departmental sections of the catalog for their stipulations. General requirements, applicable to all graduate students meeting this thesis requirement, are cnumerated helow.

• A thesis subject should be selected by the student in consultation with the student's advisor and must be approved by the Advisory Committee. With permission of the Advisory Committee, a student not in residence but who has satisfied all course requirements may complete the thesis "in absentia."

• The research and thesis must be certified by registration in and completion of all requirements of the

research and thesis courses numbered 551. If the student does not complete the course during the quarter in which he or she is registered for it, an incomplete or I grade will be given in the course until such time as all requirements are completed, including the thesis. The limit on clearing this grade is graduation. The thesis, in order to be approved, must be written in correct English and in scholarly form. It must show independent thought, both in its recognition of a clearly defined problem and in its method of treatment. It must reveal the sources of information and a knowledge of the bibliography of a special field. If a student's thesis contains proprietary information that the student wishes to retain as proprietary after submitting his or her thesis to the Graduate School and the Library, the student is permitted, based upon the recommendation of the chairperson of the committee responsible for approval of a student's thesis to the Graduate School, to substitute sample data for actual data, facsimile illustrations for actual illustrations, and "what-if" situations for actual situations, as appropriate, in the document being released to the public domain. The student will include an appropriate disclaimer in the thesis to state that samples, facsimiles, etc., are being substituted for proprietary information in the document being released to the public domain.

• The publication "Guidelines for the Preparation of Your Thesis or Dissertation" is available in the Graduate School Office and should be used as a guide in the preparation of the thesis. The thesis must he submitted to the college director of graduate studies 10 working days before the expected date of graduation, to the Dean of the Graduate School 7 working days before the expected date of graduation, and to Prescott Memorial Library 2 working days before the expected date of graduation.

• The director of graduate studies in each academic college will notify the academic dean and the Graduate School that the candidate has completed all requirements other than the final quarter's grades and is eligible to receive the appropriate degree prior to graduation. A student will not be permitted to graduate unless all grades are cleared.

Students requiring a faculty member's time and assistance, laboratory facilities, library services, etc., while engaged in research and/or practicum will be required to register and pay fees.

Examinations

Oral and/or written comprehensive examinations will be administered by the Advisory Committee sufficiently in advance of graduation in order that the dean of the academic college (or a representative) in which the student is a candidate for a graduate degree may notify the Graduate School Office. This notification should be made at least 1 week before commencement and should state that all requirements have been satisfied, contingent upon satisfactory grades for the final quarter. Otherwise, the candidate will be delayed 1 quarter in receiving his or her degree. A student who does not successfully pass the comprehensive examination is entitled to one repeat examination. No oral or written comprehensive examination is required for the MBA and MPA.

Time Limit for Degree

A time limit for the completion of all requirements for the master's degree has been set at 6 consecutive calendar years from the time of initial enrollment. Failure to do so will result in the student's immediate suspension from the master's degree program. Reinstatement appeals should be directed to the Dean of the Graduate School and the Graduate Council through the college director of graduate studies. The Graduate Council shall stipulate the conditions of possible reinstatement.

A Second Master's Degree

A student pursuing a second master's degree must earn a minimum of 15 additional graduate hours at Louisiana Tech and must satisfy the requirements for a minimum number of exclusive graduate courses, in addition to the thesis or practicum if required, to be taken in the area in which the second degree is being earned. Some colleges may require more than 15 hours. Transfer hours will not be approved on a second master's degree.

International students wishing to pursue a second master's degree or advance to a doctoral program need to obtain a new I-20 to comply with INS regulations.

Dual-Degree Programs

Students wishing to pursue two degrees simultaneously must provide the Graduate School with documentation for the Primary and Secondary degree program from the college(s) in which the degree program(s) resides. Appropriate admission procedures and separate applications must be followed and submitted for each degree program. If the programs are in different colleges, an application fee must be paid for each program application. Any program changes must be reported by the appropriate college(s) to the University Registrar and the Graduate School immediately. Degree audits are required for each program being pursued. The Primary program must be completed first. Each degree program must be supervised by an appropriate Advisory Committee with complete paperwork, including Plan of Study, completed and submitted for each program being pursued. All published guidelines, policies, and procedures are applicable to these programs.

General Requirements for All Doctoral Degrees

The doctoral degree is not awarded on the basis of completion of a course of study, however well done. Instead, the degree is earned hy intensive individual study, inquiry, and original research by a well-qualified candidate under the close supervision of appropriate graduate faculty. The program must be tailored to the needs and interests of the candidate and to the needs and demands, present and future, of his or her profession. As a result, the modern doctoral candidate must expect to exhibit or develop a high level of competency and habits and skills of individual inquiry and original research which characterize the doctorate. All students are expected to make and are responsible for making continuous satisfactory progress while pursuing the doctoral degree. Consequently, it is neither possible nor desirable to set firm and rigid requirements.

Because of the unique nature of each doctoral program and external programmatic constraints such as accreditation guidelines, the university-authorized requirements for individual doctoral programs may be more rigorous than the general requirements listed in this section or as specified by the State Board of Supervisors. Students interested in these programs should refer to listings under individual colleges or on appropriate college web sites.

Plan of Study

During the first quarter in which students are enrolled in Graduate School, they report to the appropriate director of graduate studies to request the appointment of a committee, with responsibilities including counseling with the student to develop a Plan of Study. A copy of this Plan of Study must be filed with the Graduate School Office during the student's first quarter of enrollment in a graduate degree program. Any graduate student who has not submitted a Plan of Study by the end of the first quarter of graduate study will not be allowed to register as a graduate student until a Plan of Study has been submitted. All formal course work must be approved as acceptable for graduate credit. A final Plan of Study must be completed and submitted to the Graduate School prior to graduation.

Minimum Credit Requirement

Formal course work is of indisputable value to bring the student into a scholarly relationship with members of the graduate faculty and to demonstrate accepted knowledge of a subject. A program leading to a doctoral degree normally shall be the equivalent of at least 3 years of graduate study beyond the baccalaureate degree.

Transfer Credits

Upon approval of the department involved, there would be no limit at the doctoral level regarding transferring courses for degree credit from a U.S. regionally-accredited college or university. The grade earned must be **B** or above, and the credits must be accepted as applicable to the degree program by the student's academic college. No transfer credit for extension courses will be accepted.

Transfer credit for graduate courses will be posted on the student's transcript only by written request from the student's graduate committee chairperson and approved hy the college graduate director. Transfer credit will be posted only for courses listed on the student's approved Plan of Study.

Research and Dissertation

The dissertation is required of all candidates for the doctoral degree and must be supported by adequate research and independent study of a problem of reasonable scope under the close supervision of appropriate graduate faculty. A minimum of 15 semester hours credit is granted for this research and dissertation through the medium of appropriate registrations as guided by the student's Advisory Committee. If the student does not complete the course during the quarter in which he or she is registered for it, an I grade will be given in the course until such time as all requirements are completed, including the dissertation. *The limit on clearing this grade is graduation*. Grades of I and S are used for these courses.

The dissertation must be submitted to the appropriate director of graduate studies at least 10 working days before the expected date of graduation, to the Dean of the Graduate School at least 7 working days before the expected date of graduation, and to Prescott Memorial Library 2 working days before the expected date of graduation. If a student's dissertation contains proprietary information that the student wishes to retain as proprietary after submitting his or her dissertation to the Graduate School and the Library, the student is permitted, based upon the recommendation of the chair of the committee responsible for approval of a student's dissertation to the Graduate School, to substitute sample data for actual data, facsimile illustrations for actual illustrations, and "what-if" situations for actual situations, as appropriate, in the document being released to the public domain. The student will include an appropriate disclaimer in the dissertation to state that samples, facsimiles, etc., are being substituted for proprietary information in the document being released to the public domain.

The publication "Guidelines for the Preparation of Your Thesis or Dissertation" is available in the Graduate School Office and should be used as a guide in the preparation of dissertations. The University participates in the service for publication of doctoral dissertations provided by University Microfilms. Each abstract is published in "Dissertation Abstracts," along with a positive copy which is sent to the Library of Congress. The doctoral candidate is advised to check with Prescott Memorial Library concerning this program.

The director of graduate studies in each academic college will notify the academic dean and the Graduate School that the candidate has completed all requirements other than the final quarter's grades and is eligible to receive the appropriate degree prior to graduation. A student will not be permitted to graduate unless all grades are cleared.

Majors and Minors

It shall be the responsibility of the student's Advisory Committee to explore with him or her and, subsequently, to define for the student his or her obligations toward majors and minors. The general content and scope of these majors for the disciplines involved shall have been approved by the Graduate Council and shall be so framed that their integrity is served in the administration of the program.

Examinations and Admission to Candidacy

After completion of a minimum of two full academic years of graduate work and compliance with any other requirements of the appropriate academic college, comprehensive examinations (general examinations) are required to determine whether the student is ready to be admitted to candidacy for the doctoral degree. The results of these examinations may also determine additional work to be taken and may determine the feasibility of the dissertation project.

An examination defending the dissertation must be completed successfully at least 2 weeks prior to the date the degree is to be received.

Residence Requirement

The minimum residence requirement for the doctoral degree shall be 8 quarters heyond the bachelor's degree. The student is required to spend at least 3 quarters beyond the first year of graduate study in continuous residence. The transfer of course work from a recognized graduate school carries with it the transfer of residence credit, but a minimum of 24 scmester hours of graduate credit heyond the first year of graduate study must be earned in residence at Louisiana Tech University.

Time Limitation

Doctoral students who have earned master's degrees in the area of their doctoral studies will be expected to *complete the requirements for the degree in 7 years from initial enrollment; all others will have 8 years.* A student who does not complete the doctoral degree within the time limits described will be dropped from the program.

Appeal: Students seeking an extension of the time limit for completion of their degree must provide a written appeal for extension to the graduate director in the college to which they were admitted for doctoral study. The appeal must describe the circumstances that prevented the student from completing the degree in a timely manner, a plan, and a timeline describing the steps to be taken to complete the degree. Such an appeal must then be reviewed and approved hy the college graduate director, the Graduate Council, and the Dean of the Graduate School. In no case may an extension to the time limit for degree completion exceed 2 years.

Additional Information for all Graduate Students

Financial Aid for Graduate Students

Louisiana Tech University provides equal educational opportunities for all graduate students, and this policy of equal opportunity is fully implemented in all programs of financial aid to assist students in obtaining an education at Louisiana Tech.

An extensive financial aid program encompassing employment, loans, and scholarships is available to assist students. Need, skills, and academic performance are carefully weighed to develop a "financial package" for qualifying graduate students.

Employment is available in a wide variety of forms to the graduate student who is willing to work. Areas of work include but are not limited to clerical, maintenance, food service, laboratories, library, and dormitories. Pay rates are commensurate with the skill and experience required, and work is limited to avoid interference with academic pursuits. The University participates in the Federal College Work-Study program designed to assist students with financial need in addition to employment available through individual departments on campus.

The student is advised to make inquiries at the Office of Student Financial Aid in person or by writing P. O. Box 7925, Ruston, Louisiana 71272-0029 in January prior to fall enrollment.

Graduate students must be unconditionally admitted and enrolled in their degree program in order to qualify for their federal assistance. Federal regulations stipulate that any undergraduate and graduate student must be enrolled "in an eligible program for the purpose of obtaining a degree, certificate, or other recognized credential." Non-degree students do not qualify for financial aid. Requirements for admission into the master's or doctoral programs are listed in the Graduate School section of this Catalog. Before graduate students can be considered eligible for any financial assistance, they must meet all admission standards as specified by the Graduate School and their academic college. Students admitted as Unclassified, Transient, Master's Plus 30, and Extension who are not education majors seeking a teaching certificate are considered enrolled in a non-degree program, and, therefore, are not eligible to receive federal financial aid. All inquiries regarding these standards should be referred to the Graduate School or to the appropriate academic dean.

Graduate students must meet the requirements for "satisfactory progress" in order to be eligible for participation in the programs of student financial aid at Louisiana Tech University. What constitutes "satisfactory progress" and the consequences of failure to meet them successfully are applicable to the federal financial aid programs in a different fashion from regulations governing academic probation and suspension. Federal regulations frequently mandate amendments to established policies; consequently, financial aid participants (and potential participants) would be well-advised to maintain close liaison with the financial aid office regarding these requirements.

All applicants for federal financial assistance must complete their file in the financial aid office at least 2 months prior to the beginning of the quarter for which they seek to receive aid. Priority is given to applications received by or before published deadlines. The following sources of financial assistance are available to eligible students, providing funds are available.

Monthly Payment Options for Students and Families

Tuition Management Systems offer families several Monthly Payment Options to help make education expenses more affordable. The Interest-Free Monthly Payment Option enables families to spread all or part of the annual expenses over equal monthly payments. There are no interest charges and only a small annual fee. This plan includes life insurance protection covering the unpaid balance at no additional cost. Additionally, low-interest monthly payment options, including an unsecured loan, a home equity credit line, and federally backed loans, are also available. Please contact Tuition Management Systems at 1-800-722-4867 or 401-849-1550 for more information on these programs.

Federal Perkins Loan Program

A Perkins Loan is a low-interest loan designated to help undergraduate and graduate students pay educational costs. A graduate student may borrow up to an aggregate for all years of \$30,000. A new student borrower has a nine-month "period of grace" after the student ceases to be enrolled on at least a halftime basis at the University before repayment must begin.

Subsidized and Unsubsidized Federal Stafford Loan Program (Formerly Guaranteed Student Loan Program)

Stafford loans are available for students meeting certain qualifications. Loans are made up to \$8,500 per year for Subsidized Stafford and \$10,000 per year in the Unsubsidized Stafford for graduate students. Aggregate loan limits are \$138,000 for graduate/professional students of which no more than \$65,000 of this amount may be in subsidized loans. The graduate debt limit includes any subsidized Stafford Loans received for undergraduate study.

After a student's application has been processed by the Office of Student Financial Aid, his/her Stafford loan is electronically certified and submitted for guarantee. He/She will receive a promissory note from the Guarantee agency which he/she must complete with references and return to his/her lender, credit union, or savings and loan association. This process may take 3 weeks before funds are available. Under the Subsidized Stafford Loan Program, interest charges to the student and repayments begin six (6) months after the student is no longer at least a half-time student. In the Unsubsidized Stafford Loan Program, interest does accrue while the student is enrolled on at least a half-time basis and students are required to make interest payments while in school or have the interest capitalized. To apply, students must complete the Free Application for Federal Student Aid (FAFSA) and a Louisiana Tech Financial Aid Data Form.

Academic Scholarships

Louisiana Tech University has a General Scholarship Program; in addition, each of the five colleges (Administration and Business, Applied and Natural Sciences, Education, Engincering & Science, and Liberal Arts) has its own scholarship program. Graduate students interested in applying should contact their academic college for more information.

Scholarships are divided into the following categories:

- Academic Scholarships. These scholarships are awarded on the basis of demonstrated ability--usually with regard to need.
- Grant-in-aid and Service Awards. Frequently, these are awarded on the basis of special skills and require the student to render a service to the University. Included in this category are scholarships in athletics, music, band, and academics.

Vocational Rehabilitation Grants

Vocational Rchabilitation is a public service program for physically and mentally handicapped individuals. To be eligible, a person must have a permanent disability which constitutes a job handicap. Graduate students with disabilities are advised to contact the Department of Vocational Rehabilitation in their districts for consideration of their cases.

Veterans' Orphans Scholarships

These scholarships are awarded to sons and daughters of deceased war veterans. Students apply to the Department of Veterans' Affairs in their district.

Graduate Assistantships

Assistantships for students pursuing master's degree and doctoral degree programs are offered. A student should check with the appropriate college for information concerning these assistantships.

In addition, a limited number of University Graduate Assistantships for master's and doctoral students are available to outstanding students. Applications for University Assistantships should be in the appropriate college graduate director's office by February 1 preceding the fiscal year for which application for admission is made (fiscal year begins July 1). Forms for applying for an assistantship can be obtained from the Graduate School Office or Tech's web site.

An applicant must

- be eligible for admission to the Graduate School
- have an undergraduate grade point average of at least 3.50 and

• submit a satisfactory standardized test score required in his/her field.

Federal regulations for student financial aid consider assistantships as a financial aid resource and must be calculated when determining a graduate student's financial aid award.

Graduate Residentships

Graduate residentships are positions appointed by the Director of Housing for graduate students serving as hall directors in both men's and women's residence halls. Applicants may be married or single. There are limited positions available for summer. The applicant must be enrolled as a graduate student and agree to register for not more than 6 hours of course work each quarter. Responsibilities include residence hall staff supervision, program implementation, and coordination of hall administration. Additional information and application forms can be obtained from the Department of Housing, Louisiana Tech.

Ph.D. in Computational Analysis & Modeling (CAM)

Administration

Coordinator

Richard J. Greechie Director of Graduate Studies, Engineering and Science Bala Ramachandran Steering Committee Members Ben Choi Weizhong Dai Raj Nassar

Address

More information about the Computational Analysis & Modeling program can be obtained by writing:

Coordinator, CAM PhD program Louisiana Tech University P.O. Box 10348 Ruston LA 71272 (318) 257-3090 and/or visiting the web site:

http://www.coes.latech.edu/grad/cam/cam

Objective

The Ph.D. program in Computational Analysis and Modeling is an interdisciplinary doctoral degree program with participation from the College of Engineering and Science, the College of Administration and Business, and the College of Applied and Natural Sciences.

The program is intended to produce professionals who have a firm grasp of the fundamentals of mathematical modeling; who have the expertise to implement, analyze, and evaluate such models using state-of-the-art computing environments and advanced visual data analysis techniques; and who have made a cutting-edge contribution to some technical area associated with the program.

Program Administration

The coordinator and the steering committee, with the approval of the Dean of Graduate School, will establish the policies and procedures applicable to this program, evaluate applications, administer examinations, and oversee the all aspects of the student's work.

Admission Requirements

- Applicants must meet the general requirements for admission to graduate programs at Louisiana Tech University (see Chapter 15 of this Catalog.)
- A master's degree in one of the physical or biological sciences, engineering, computer science, or mathematics is recommended but not required. Exceptional students with a bachelor's degree in an appropriate area will be considered.
- 3. An official Graduate Record Examination (GRE) score is required. This requirement may be waived in the case of exceptional students.
- 4. Applicants must submit official transcripts.
- 5. Letters of recommendation may be required by the coordinator of the program.

Core Requirements, Course Work and Dissertation

Typically, 72 hours of graduate work will be required for the degree. The Core consists of 15 graduate hours of mathematics, 9 graduate hours of computer science, and 9 graduate hours of a third area chosen from chemistry, physics, biology, forestry, finance, statistics, or an engineering discipline. The remaining courses will be determined by discussion between the student and the advisor, with the approval of the interim committee (see below).

The topic for the dissertation may be selected from the disciplines listed above for the third area, but may also include mathematics or computer science.

Committees

An Interim Committee consisting of at least 4 members must be appointed for each student by the end of the first quarter in the program. This committee will consist of at least 1 member from the following areas:

- 1. Mathematics and Statistics
- 2. Computer Science
- 3. The third discipline selected.

A Doctoral Committee of 5 members will replace the student's interim committee within 1 year of passing the qualifying examination. The Doctoral Committee will work with the student to plan the research to be undertaken for the degree. It will be approved by the CAM steering committee and shall have the following membership:

- 1. The major professor (dissertation advisor)
- 2. At least one from mathematics and statistics
- 3. At least one from computer science,
- 4. At least one from the student's Area of Specialization.

Examination Structure, Candidacy, and Time Limitation

Qualifying Examination

The qualifying examination will consist of written examinations in mathematics and in computer science and an appropriate exam in the area of application. The qualifying exam in the area of application may consist of the master's degree in that area. Special permission from the Dean of the Graduate School is required to take any one of these exams more than twice.

Comprehensive Examination

Within 1 year of passing the qualifying exam, a student is normally expected to pass a comprehensive examination in his/her area of specialization. The comprehensive exam will include a lecture followed by a question/answer period on the student's proposed dissertation topic that exhibits a clear demonstration of an understanding of the principles and methods involved in his/her proposed area of specialization.

Candidacy

After the student has successfully passed the comprehensive examination, the student will be admitted to candidacy.

Dissertation Defense Examination

The student's Doctoral Committee administers the dissertation defense exam. It will, in most cases, consist of an open public defense of the results of the dissertation. This final exam must be successfully completed at least 2 weeks prior to the date the degree is expected to be received. Those serving on the doctoral committee must recommend, with at most one dissent, that the student has satisfactorily passed the dissertation defense exam.

Time Limits

The student must complete the dissertation and pass the dissertation defense examination within 6 years after being admitted to candidacy.

Timetable

Matriculation - Interim Committee must be appointed and an initial plan of study submitted by the end of a student's first quarter of study.

Dissertation Research Proposal - A proposal outlining the research to be undertaken for the dissertation must be submitted by the end of the fourth quarter of enrollment, not including summers.

Qualifying Exam – To be taken in the first Fall Quarter following 3 quarters in the program, consisting of written examinations in mathematics and computer science, and appropriate examination in the third discipline (may consist of master's degree).

Doctoral Committee - Chosen within 1 year of passing the qualifying examination, with the membership as stipulated above.

Comprehensive Exam - (In the area of specialization, the area in which the dissertation is written) Within 1 year of passing the qualifying exam.

Admitted to Candidacy - Upon passing the comprehensive exam, the student is admitted to candidacy for the doctoral degree.

Please note the maximum time limitations for completing a doctoral degree stated in Chapter 15.

M.S. in Molecular Sciences and Nanotechnology (MSNT)

Administration

Coordinators

Director of Graduate Studies, Engineering and Science Bala Ramachandran

Associate Dean for Graduate Studies & Research, Applied and Natural Sciences

William J. Campbell

Steering Committee Members

Engineering and Science: Yuri Lvov Applied and Natural Sciences: David K. Mills

Address

More information about the Molecular Sciences and Nanotechnology program can be obtained by writing to one of the coordinators

c/o Dean of Graduate School Louisiana Tech University

P.O. Box 7923

Ruston LA 71272

(318) 257-2924

and/or visiting the web site:

http://www.coes.latech.edu/grad/msnt

Objectives

The objectives of this interdisciplinary program are

- 1. To train graduate students in experimental, theoretical, and computational aspects of research in molecular biology, chemistry, and physics, particularly where these disciplines intersect.
- 2. To enhance interdisciplinary applied research at Louisiana Tech University in micromanufacturing and nanotechnology, including molecular biology and protein engineering.
- 3. To prepare graduate students for the next generation of careers in science and technology by offering a unique, flexible, and highly marketable graduate degree.
- 4. To prepare graduate students for interdisciplinary or traditional PhD programs in Biochemistry, Chemistry, Materials Science, Molecular Biology, and Physics which emphasize research at the intersections of one or more of the traditional disciplines.

Program Administration

The coordinators and the steering committee, with the approval of the Dean of Graduate School, will establish the policies and procedures applicable to this program, evaluate applications, administer examinations, and oversee the all aspects of the student's work.

Admission Requirements

- 1. An undergraduate degree in biological sciences, biomedical engineering, chemical engineering, chemistry, electrical engineering, or physics, or a closely related discipline such as biochemistry, biophysics, chemical technology, engineering physics, molecular biology, or pharmacology.
- A Graduate Record Examination (GRE) V+Q score of 1050 for students who do not bave an undergraduate degree from an accredited US institution. Outstanding academic performance at the undergraduate level could offset this minimum requirement to some extent.
- 3. International students are required to submit a TOEFL score of at least 213 (computer-based).
- 4. For students with an undergraduate degree from an accredited US institution, the following formula will be used to determine admission eligibility: GPA × 200 + GRE V+Q = 1400 for unconditional admission, 1200 for conditional admission.

Course Requirements

Thesis or practicum options are available. The thesis option consists of 24 semester credit hours (SCH) of courses + 6 SCH of research and thesis for a total of 30 SCH. The Practicum Option consists of 33 SCH of courses + 3 SCH of practicum for a total of 36 SCH.

All students will be required to take one of MSNT 505 (Nanotechnology Principles) or MSNT 521 (Principles of Cell and Molecular Biology) depending on research interests. All students will also take MSNT 502 (Research Methods) and MSNT 504 (Seminar) as core courses. The remainder of the curriculum is to be determined by consultation with the research advisor and advisory committee.

Some remedial work may be necessary to acquire the necessary background if the student decides to switch fields at this point (e.g., physics students may have to take biology classes and biology students may need to improve their command of the physical sciences).

Committee, Plan of Study, and Research Proposal

A graduate advisory committee will be appointed for each student by the end of the first quarter of enrollment. The advisory committee shall consist of at least 3 members, with at least 1 member from the two participating colleges (Engineering & Science, and Applied & Natural Sciences). A Plan of Study listing the courses to be taken should be prepared in consultation with the research advisor, approved by the committee, and submitted by the end of the first quarter of enrollment. The choice between thesis and non-thesis options must be made at this time.

A research proposal detailing the research to be conducted for the thesis or practicum must be prepared in consultation with the advisor, approved by the advisory committee, and submitted by the end of the second quarter of enrollment.

Chapter 17 - Graduate Programs College of Administration and Business

Administration

Dean

Shirley P. Reagan
Associate Dean, Graduate Studies and Research
Marc C. Chopin
Associate Dean, Undergraduate Studies and Administration
Elizaheth A. Wibker
Director, Division of Business and Economic Research
Marc C. Chopin

Head, Department of Economics and Finance Dwight C. Anderson

Head, Department of Management and Marketing

Mark Kroll

Interim Head, Department of Computer Information Systems and Analysis

Elizabeth A. Wibker

Director, School of Professional Accountancy Thomas J. Phillips, Jr.,

Address

More information about the College of Administration and Business may be obtained by writing: Graduate Division College of Administration and Business P.O. Box 10318 Louisiana Tech University Ruston, LA 71272 (318) 257-4528 and/or by visiting the College's Web site: <u>http://www.cab.latech.edu</u>

Vision

We will be increasingly recognized for advancing the interests of our stakeholders through instruction, research and service that

- integrates business, entrepreneurship, and technology;
- leads to innovation in administration and business; and
- prepares our students to think strategically and become effective leaders.

Mission

Our undergraduate programs equip graduates to succeed in entry-level professional positions in the area of their academic major and/or to pursue entrepreneurial activities. Our master's programs address the continuing professional development needs of those preparing for mid-level general management positions, intrapreneurial/entrepreneurial leadership positions, and advanced specialist positions. Our DBA program equips graduates to become scholars in their disciplines and to think beyond traditional boundaries.

Our graduate programs drive our mission to engage in discipline-based scholarship that advances knowledge, improves management practice, and enhances business performance. This scholarship is both the foundation and stimulus of the College's commitment to excellence in instruction in our undergraduate and graduate programs.

We serve as exemplars to our students as we utilize our professional skills in service to our College and University, our professional societies, and our community. We recognize an obligation to advance the lifelong professional education needs of our alumni and the broader business community in our area and to contribute toward the economic development of Louisiana.

Accreditation

The College of Administration and Business is accredited by the AACSB International – The Association to Advance Collegiate Schools of Business. Also, the School of Professional Accountancy is separately accredited by the AACSB.

Degrees Offered

- Master of Business Administration
- Doctor of Business Administration
- Master of Professional Accountancy

Graduate programs in business are designed to prepare students to engage in professional and/or administrative careers in business and government, and to enter the academic community. Students may enter the master's and doctoral programs any quarter. Each graduate student has an advisor to help plan his/her program and tailor it to individual needs and objectives. In the College, no grade lower than C in courses taken for graduate credit will be applied toward a degree program. Also, no more than two C's will count toward a graduate degree. All courses pursued for graduate credit will be counted in the grade point average. To receive a graduate degree, a student must have a cumulative average of at least 3.0 on all work pursued for graduate credit while registered at Louisiana Tech.

Graduate Assistantships

A limited number of graduate assistantships are available each year to students of high academic accomplishment. The stipend for graduate assistants is \$7,200. The graduate student who holds an assistantship is expected to carry a reduced classwork load that will vary depending on scholastic record and amount of work required by the assistantship. Teaching assistantships are awarded to doctoral students. The salary paid for these part-time teaching assignments is \$15,000 annually.

Master of Business Administration (MBA)

The purpose of the Master of Business Administration (MBA) program is to offer an educational experience in business and management at the graduate level. The program is designed to provide hreadth in exposure to the business disciplines and facilitate integration of knowledge of the various disciplines. It is an interdisciplinary and interdepartmental degree program offered by the Graduate Division and the academic departments of the College of Administration and Business. Ethical concerns and international issues are emphasized throughout the curriculum.

The curriculum leading to the MBA is administratively oriented and is characterized by breadth of course-field requirements. It does not require and, in fact, does not permit a major in any particular field. However, many students desire a modest concentration in an area such as accounting, economics, finance, management, marketing, or quantitative analysis. Such concentrations will consist of a minimum of 9 hours and, as such, will increase the total number of hours necessary to complete the program. The courses to be taken by a student seeking a concentration will be determined by the student's advisory committee and approved by the Associate Dean for Graduate Studies and Research. Also, scheduling and resource constraints may limit the availability of concentrations from time to time.

Objectives and Outcomes

During the MBA program students will

- Examine the theory, principles and knowledge necessary to manage modern business enterprises effectively.
- Work in teams to formulate solutions to complex business problems.
- Develop an awareness of the issues and questions faced by those in leadership positions.
- Design and communicate solutions to case studies and real world problems.

Admission Requirements

To qualify for admission to the MBA program, applicants must meet the admission requirements of the Graduate School of the University and the admission requirements of the Graduate Division of the College of Administration and Business. Any applicant who holds a bachelor's degree, or equivalent, from an accredited college or university will be considered for admission regardless of the undergraduate field of study. An applicant for admission should understand that graduate work is not merely an extension of undergraduate work. Graduate study operates at a significantly higher level of rigor, demands scholarship of a higher order, and places more emphasis on research and student responsibility.

Once the admission requirements of the Graduate School have been met, the MBA Admissions Committee will grant admission only to those individuals who demonstrate significant accomplishment and/or high potential for success. The decision of the Admissions Committee is normally based on a combination of the applicant's previous academic record and the applicant's score on the Graduate Management Admission Test (GMAT). Applicants with a composite score (equal to 200 x UGPA + GMAT score) of at least 1,100 (1,150 when calculated using the GPA from the applicant's last 60 credit hours) and who have an undergraduate GPA of at least 2.75 and a GMAT score of at least 450 are eligible for unconditional admission to the MBA program. Applicants meeting the minimum composite score, but who arc not able to meet the minimum GPA or GMAT requirements may be considered for conditional admission to the MBA program. Also, significant business experience may serve as an indicator of an individual's ability to complete the program, and thus may be considered by the Committee.

For information, contact the Associate Dean for Graduate Studies and Research, College of Administration and Business, Louisiana Tech University, Ruston, LA 71272; send an e-mail to <u>cabgrad@cab.latech.edu</u>; or refer to our web site: <u>http://www.cab.latech.edu/</u>.

Foundation Requirements

Students entering the MBA program may come from areas other than business, but need to demonstrate a knowledge base sufficient to enable them to complete graduate-level work in business. Evidence of such foundation knowledge may consist of the completion of undergraduate courses constituting a business core, recent business experience, and/or satisfactory performance on the GMAT. At a minimum, each student is presumed to be computer literate and to have had recent, college-level course work in the following core areas:

- computer information systems,
- economics,
- financial reporting, analysis, and markets,
- domestic and global economic environments of organizations,
- creation and distribution of goods and services,
- human behavior in organizations,
- calculus and linear algebra,
- statistics

The Associate Dean for Graduate Studies and Research of the College of Administration and Business determines the acceptability of all work submitted in satisfaction of the foundation and prescribes appropriate courses to be taken to remove any deficiencies.

MBA Curriculum - General* (MBA)

Quantitative Analysis 525	3
Computer Information Systems 510	3
Economics 510	3
Accounting 505	
Finance 515	
Management 510	
Marketing 530	
Electives	6
Management 595	
Total	ō

MBA Curriculum - With Concentration* (MBA)

Quantitative Analysis 525	
Computer Information Systems 510	
Economics 510	
Accounting 505	
Finance 515	
Management 510	
Marketing 530	
Concentration Courses	
Management 595	
Total	

*The student who has recently completed an undergraduate program with specialization (major or minor) in one of the areas of business may be required to substitute a graduate business elective for the course in that area specified in the curriculum. For example, a student with an undergraduate degree in Accounting will be required to take Accounting 508 in lieu of Accounting 505. Upon approval of the Associate Dean for Graduate Affairs and Academic Research, students may transfer up to 6 hours of graduate credit toward the MBA degree. To be eligible for graduate credit, courses must have been taken at a college of business accredited by the AACSB.

Master of Professional Accountancy (MPA)

The Master of Professional Accountancy (MPA) program is designed to provide graduate-level education in accounting for individuals seeking rewarding careers in public accounting, industry, and government.

For information, contact the Director of the School of Professional Accountancy or the Associate Dean for Graduate Studies and Research, College of Administration and Business, Louisiana Tech University, Ruston, I.A 71272; send an e-mail to <u>cabgrad@cah.latech.edu</u>; or refer to our web site: <u>http://www.cab.latech.edu</u>/.

Objectives and Outcomes

The MPA program will

- Provide students with the knowledge and tools needed to obtain meaningful employment and have successful careers.
- Prepare students for management positions.
- Provide the educational background for students to meet the educational requirements of various accounting certifications.
- Prepare students for a career in accounting.

Additionally, the MPA program has been designed to enable students to achieve the following learning objectives:

- Strengthen students' comprehension of accounting and ٠ business.
- Improve students' ability to focus on appropriate issues and develop solutions to problems where needed.
- Further refine students' oral and written communication skills.
- Broaden students' understanding of global issues.
- Expand students' understanding of professional and ethical issues faced by accountants.
- Develop student's ability to appraise the accounting profession critically.

Admission (Accounting Background)

Admission to the graduate phase of the MPA program is based upon the combination of an applicant's academic record and score on the Graduate Management Admission Test (GMAT). The decision of the Admissions Committee is normally based on a combination of the applicant's previous academic record and the applicant's score on the Graduate Management Admission Test (GMAT). Applicants with a composite score (equal to 200 x UGPA + GMAT score) of at least 1,100 (1,150 when calculated using the GPA from the applicant's last 60 credit hours) and who have an undergraduate GPA of at least 2.75 and a GMAT score of at least 450 are eligible for unconditional admission to the MPA program. Applicants meeting the minimum composite score, but who are not able to meet the minimum GPA or GMAT requirements may be considered for conditional admission to the MPA program. Students may enter the program any quarter, and each individual has an advisor to help plan the program.

Transcripts of students entering the MPA program at the graduate level are evaluated and proper courses prescribed to satisfy the degree requirements. The undergraduate phase of the MPA program is given in the Accounting section of the undergraduate portion of this Catalog.

The normal graduate phase of the MPA program is given below. The graduate phase may normally be completed in 1 year by Accounting undergraduates who have performed satisfactorily in appropriate preparatory work. Upon approval of the Associate Dean for Graduate Studies and Research, students may transfer up to 6 hours of graduate credit toward the MPA degree. For transfer courses to be accepted for graduate credit, courses must have been taken at a college of business accredited by the AACSB.

Year 5

Accounting 506 OR 507	3
Accounting 508	
Accounting 513	
Accounting 521	
Accounting Flectives**	
CAB Electives (2 500-level non-accounting)	
Business Law 410	

*Total must include at least 15 hours of 500-level Accounting taken at Louisiana Tech.

**Accounting 505 cannot be taken as an elective. Only 6 hours of accounting courses below the 500-level may be taken.

Admission (Non-Accounting Background)

In addition to meeting the core business courses, the applicant must have satisfactorily completed the following minimum accounting courses:

Accounting Systems	
Intermediate Accounting *	9
Income Tax	
Managerial Cost Accounting	
Advanced Accounting	
Auditing	
Math ematics 222 or Quantitative Analysis 390	
Quantitative Analysis 233	
English 303 or 336	3
TOTAL	33

TOTAL.

*Or an equivalent intermediate sequence which is 6 hours at some universities.

Doctor of Business Administration (DBA)

The Doctor of Business Administration degree is a professional degree at the highest level of formal study in business administration. It is intended to develop the breadth and depth of comprehension, the command of research methodology, and the understanding of related disciplines required for careers in university teaching and research, or for high-level professional and administrative positions in business, government, education, or other organizations. The Doctor of Business Administration degree is a broad, interdisciplinary degree. The DBA candidate must expect to exhibit or develop a high level of competence and skills of individual inquiry and original research which characterize the doctorate. The student will work under the close supervision of a major professor and an Advisory Committee.

Objectives and Outcomes

While completing their program of study, DBA students will develop and demonstrate the depth and breadth of their analytical and empirical skills hy

- Identifying and developing research projects relevant to the business disciplines, culminating with the preparation and defense of a dissertation.
- Contributing to the body of knowledge in their chosen discipline by submitting research papers to refereed journals for consideration for publication or for presentation at professional meetings and conferences.
- Being prepared to teach in accredited universities.

Admission to the DBA Program

To qualify for admission to the DBA program, applicants must meet the graduate admissions requirements of the Graduate School and the doctoral admissions requirements of the College. If these requirements have been or can be met, the application will be reviewed by a doctoral admissions committee to determine personal characteristics, research interest and capability, motivation and perseverance, and promise of success in high-level advanced study.

The academic record and score on the Graduate Management Admissions Test (GMAT) must demonstrate sufficient promise to indicate that they are qualified to perform

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successfully in the DBA program. More emphasis will be placed on an applicants' graduate record than on their undergraduate record if they have already earned their master's degree.

Admission Procedure

- Take the Graduate Management Admission Test. Arrangements can be made by calling (800) GMAT -NOW. Request that your test score be sent to the Associate Dean for Graduate Studies and Research, College of Administration and Business (code 6372), Louisiana Tech University, Ruston, LA 71272.
- Complete a Graduate School application for admission form and pay application fee. Applications can be obtained from the Graduate School, Louisiana Tech University, P. O. Box 7923, Ruston, LA 71272, or downloaded from our website http://www.cab.latech.edu/ Return the completed application to the Graduate School.
- 3. Request official transcripts from all colleges and universities attended at any time in the past be sent to the Graduate School.
- 4. Send 3 letters of reference from persons who know your qualifications for doctoral study to the Associate Dean for Graduate Studies and Research, College of Administration and Business, Louisiana Tech University, Ruston, LA 71272. These letters should be submitted before or by the time the application is made. Also, the applicant should send a current resume to the same address.
- 5. After the above 4 steps have been completed, an invitation may be extended to participate in an interview with selected business faculty. The admission decision will be made by the DBA Admissions Committee after this interview. All of an applicant's credentials will be used in making this decision.

Field and Related Requirements

The Doctor of Business Administration degree program requires knowledge to be developed in 3 subject areas chosen from the following fields: accounting, economics, finance, management, marketing, and quantitative analysis. Also, research support courses in mathematics, statistics, computer languages, and other selected fields will be chosen according to the major field of the student. Regardless of the specific fields used by the DBA student, the student must normally show credit for at least one course for graduate credit in each of these: accounting, economics (normally 2 courses), finance, management (normally Business Policy), marketing, research methods, and statistics. There is no requirement of a foreign language for the DBA degree.

Hours Required and General Examinations for the DBA Program

A minimum of 60 semester credit hours of graduate course work is required beyond the bachelor's degree exclusive of credit for dissertation research and Current Topics in Research Seminar. The advisory committee will decide the number of credit hours which students must take to provide the necessary strength in their fields.

Upon completion of the course requirements, written and oral comprehensive examinations are administered. After all examinations are completed, the student will be admitted to candidacy status. After the completion of the dissertation, a final oral examination in defense of the dissertation will be administered. All examinations are to be taken on the main campus under the direct supervision of appropriate faculty members.

Dissertation

Credit and progress in the dissertation will be provided by registration in Administration and Business 690. A final oral examination in defense of the dissertation will be administered after the dissertation is completed.

Residence Requirements

A minimum of 3 consecutive quarters and a minimum of 24 semester credits, exclusive of research and dissertation credit, beyond the master's degree or its equivalent, are required to be taken on the Louisiana Tech campus. The student's advisory committee generally specifies additional residential course work beyond the minimum of 24 credit hours.

Candidacy and Time Limitation

After the student has successfully passed all examinations, the student will be admitted to candidacy. The student must complete the dissertation and pass the final oral examination (defense of the dissertation) within a maximum of 3 calendar years after being admitted to candidacy, with up to 2 one-year extensions. Students must request an extension of the 3-year time limit in writing. Such a request must include a discussion of the reasons for the extension, a description of the work completed to date, and a projected timetable for completion of the dissertation. The final oral examination (defense of the dissertation) must be completed successfully at least 2 weeks prior to the date the degree is to be received.

Additional Information

Additional information may be obtained from the Associate Dean for Graduate Studies and Research, College of Administration and Business, P. O. Box 10318, Louisiana Tech University, Ruston, Louisiana 71272. Telephone (318) 257-4528; send an email to <u>cabgrad@cab.latech.edu</u>: or refer to our web site: <u>http://www.cab.latech.edu/.</u>

Chapter 18 - Graduate Programs College of Applied and Natural Sciences

Administration

Interim Dean James D. Liberatos Associate Dean for Graduate Studies and Research William J. Campbell Interim Associate Dean for Undergraduate Studies Ray A. Newbold School of Biotogical Sciences David K. Mills, Director School of Human Ecology Janet F. Popc, Director

Address

More information about the College of Applied and Natural Sciences can be obtained by writing to College of Applied and Natural Sciences Louisiana Tech University P.O. Box 10197 Ruston, LA 71272 (318) 257-4287 and by visiting the College's web site at: <u>http://www.ans.latech.edu</u>

Graduate Degrees Offered

Master of Science

- Biology
- Family and Consumer Sciences
- Molecular Sciences and Nanotechnology
- Nutrition and Dietetics

Requirements for Admission

Students seeking admission to a graduate program in the College of Applied and Natural Sciences are required to have an earned bachelor's degree from an accredited college or university. Prospective students are also required to submit an official copy of their General Test scores from the Graduate Record Exam (GRE). Students admitted to a graduate program in the College of Applied and Natural Sciences may be awarded either unconditional or conditional admission status, based on the student's undergraduate grade point average (GPA) and GRE scores. In the School of Biological Sciences (Master of Science in Biology) the minimum GPA required for unconditional admission status is 3.00. In the School of Human Ecology (Master of Science in Family and Consumer Sciences, and Master of Science in Nutrition and Dietetics) the minimum GPA required for unconditional admission status is 2.75. Students may qualify for conditional admission status for each of the College's programs with a minimum GPA of 2.50, Unconditional admission status requires the minimum GPA, and a score of 1400, or higher, using the formula

(GPA x 200) + (GRE-verbal + GRE-quantitative) = 1400

Conditional admission status requires the minimum GPA, and a score of 1200, or higher, using the formula

 $(GPA \times 200) + (GRE-verbal + GRE-quantitative) = 1200.$

Students admitted to a graduate program will have their transcripts reviewed for previous course work completed. Students who lack necessary prerequisite course work may be

required to satisfy deficiencies in the early stage of their graduate program.

School of Biological Sciences

The School of Biological Sciences offers both thesis and non-thesis programs of study leading to the Master of Science in Biology (with concentrations available in Cell and Molecular Biology, Environmental Biology, and Organismal Biology).

Admission

Applicants to the Master of Science in Biology program must meet the general admission requirements of the Graduate School and the College of Applied and Natural Sciences.

Program of Study

Thesis Plan

The program of study for the degree of Master of Science in Biology with the thesis plan consists of a minimum of 30 semester hours of graduate credit of which at least 15 hours must be earned in 500-level, or above, courses, Required courses include BISC 502 (Research Methods in Biological Sciences), BISC 509 (Biological Sciences Seminar), BISC 535 (Current Topics in Biological Sciences), 9 semester hours of electives in the concentration area, 6 semester hours of general electives, and 3 semester hours of statistics. A maximum of 6 semester hours of credit for BISC 530 (Biological Sciences Special Problems) combined with BISC 540 and BISC 541 (Biological Sciences Internship) can be applied toward the degree. Enrollment in 3 hours of graduate credit is required each quarter the student is using university resources (faculty time, laboratories, computing facilities, etc.) for thesis work. A maximum of 6 semester hours of BISC 551 is granted as partial fulfillment of the degree plan. Students will pursue original research in a specialized field of interest, supervised by a thesis advisor and approved by the student's Graduate Advisory Committee. Completion of the thesis plan includes an oral defense of the thesis and oral examination, conducted by the student's Graduate Advisory Committee.

Non-Thesis Plan

The program of study for the degree of Master of Science in Biology with the non-thesis plan consists of a minimum of 36 semester hours of graduate credit of which at least 18 hours must be earned in 500-level, or above, courses. Required courses include BISC 502 (Research Methods in Biological Sciences), BISC 509 (Biological Sciences Seminar), BISC 517 (Applied Biological Sciences Research), BISC 535 (Current Topics in Biological Sciences), 12 semester hours of electives in the concentration area, 12 semester hours of general electives, and 3 semester hours of statistics. A maximum of 6 semester hours of credit for BISC 530 (Biological Sciences Special Problems) combined with BISC 540 and BISC 541 (Biological Sciences Internship) can be applied toward the degree. Nonthesis students are required to pass comprehensive written and oral examinations, conducted by the student's Graduate Advisory Committee.

Master of Science in Molecular Sciences and Nanotechnology

The School of Biological Sciences and the College of Applied and Natural Sciences offers an interdisciplinary Master of Science degree in Molecular Sciences and Nanotechnology (MSNT) in collaboration with the College of Engineering and Science. Please see Chapter 16 of this catalog for more information.

Research Activities

Faculty members conduct a wide range of research that may serve as the basis for student theses or independent study projects. Students interested in pursuing research are encouraged to contact the appropriate graduate faculty member, the Director of the School of Biological Sciences, or the Associate Dean for Graduate Studies and Research. Information describing faculty research areas is available directly from the faculty, from the School of Biological Sciences, or online at http://www.ans.latech.edu.

Financial Support

A limited number of university and externally funded assistantships are available on a competitive basis. Students holding assistantships will have out-of-state fees waived, if applicable. Students may also be employed as student workers. For additional information concerning financial support, contact the Director of the School of Biological Sciences.

School of Human Ecology

The School of Human Ecology offers both thesis and nonthesis programs of study leading to the Master of Science in Family and Consumer Sciences (with concentrations available in Early Childhood Administration, Early Childhood Education, Family and Consumer Sciences Education, Family and Child Development, and Human Ecology).

The School of Human Ecology also offers both thesis and non-thesis programs of study leading to the Master of Science in Nutrition and Dietetics (with concentrations available in Clinical Dietetics and Community Dietetics. This degree is awarded only to individuals who have satisfied requirements to take the examination to become a registered dietitian.

Dietctic Internship

The Dietetic Internship is a four-quarter program allowing students to meet the American Dietetic Association performance requirements required to be eligible to take the registered dietitian examination. Graduates of an accredited or approved didactic program in dietetics (DPD) may apply for admission to the dietetic internship. The program is implemented through facilities in Shrevcport, Ruston/Monroe, and Alexandria. Students are assigned to facilities in one city to minimize required travel.

Dictetic internship students enroll in Graduate School and earn undergraduate and graduate credit while completing the program. Students are required to enroll in 6 hours of graduate credit during the summer, and 3 hours of graduate credit work during fall, winter, and spring. Students are encouraged to complete the Master of Science (MS) degree, although receipt of the Dietetic Internship verification statement does not require completion of the MS program.

Accreditation

Graduate programs support undergraduate degree programs in human ecology education which are included in the University accreditation by the National Council for Accreditation of Teacher Education, and approved for certification by the Louisiana State Department of Education. The human ecology teacher preparation programs are maintained through the joint activities of the faculty of the School of Human Ecology and the Louisiana Tech University Teacher Education Council.

The School of Human Ecology is an official member of the AAFCS Higher Education Unit. The undergraduate programs are accredited by the Council for Accreditation of the American Association of Family and Consumer Sciences and approved by the American Dietetic Association.

The Dietetic Internship is accredited by the Commission on Accreditation/Approval for Dietetic Education of the American Dietetic Association (216 West Jackson Boulevard, Chicago, IL 60606), a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the United States Department of Education.

Admission

Applicants to a graduate program in the School of Human Ecology must meet the general admission requirements of the Graduate School and the College of Applied and Natural Sciences. Applicants must have an earned bachelor's degree from an accredited college or university with a major in human ecology, or a related field.

Program of Study

Requirements for a Master of Science degree in the School of Human Ecology include

- 1. For the thesis plan, a total of 30 credit hours, including 6 hours of HEC 551 (Research and Thesis).
- 2. For the non-thesis plan, a total of 36 credit hours.
- 3. A grade point average of **B** on all graduate work pursued.
- 4. A minimum of one-half of required credit hours earned in 500-level or above courses.
- Credit in HEC 504 (Methodology in Human Ecology Research), HEC 546 (Microcomputer Applications), and a statistics course available for graduate credit.
- 6. Completion of a thesis or multi-quarter independent study project.

Each student will develop an individualized plan of study, based on their selected area of study, with the guidance of their Graduate Advisory Committee. Recommended course work is listed in the School of Human Ecology Graduate Student Handbook. Students should contact the School of Human Ecology to obtain a copy of the Handbook.

Research Activities

Faculty in the School of Human Ecology are involved in areas of research which may serve as a foundation for students' theses or independent studies. Faculty research in Family and Consumer Sciences relates to young and older adults (e.g., close relationships, abstinence education for teenagers, intergenerational mentoring), children (e.g. child care availability, infant and toddler development, children's dietary intake and body images, preschool education methodology and teaching strategies, and developmentally appropriate practice), and shopping behaviors (e.g., the older shopper, behavior related to dress and image, and fashion cycles). Faculty research in Nutrition and Dietetics includes nutritional and dietary assessment (e.g., dietary fat intake, calcium intake, fruit and vegetable intake, dietary supplements, risk factors for cardiovascular and osteoporosis discases, and effects of size acceptance and body image perception on food intake), life cycle effects (e.g., maternal and child nutrition, and geriatric nutrition), food service management (e.g., environmental issues, financial, and employee productivity), and education (e.g., dietetic, and education factors that influence dictary intake).

Financial Support

A limited number of university and externally funded assistantships are available on a competitive basis. Students holding assistantships will have out-of-state fees waived, if applicable. Students may also be employed as student workers. The Merle Burke, Willie Fletcher, and Jeanne Mack Gilley scholarships are available for Human Ecology students. For additional information, contact the Director of the School of Human Ecology.

Chapter 19 - Graduate Programs College of Education

Administration

Dean

Jo Ann Dauzat Associate Dean, Graduate Studies, Research, & Development Cathy Stockton

Associate Dean, Undergraduate Studies & Director, Clinical & Field Experiences

Connie LaBorde

Curriculum, Instruction, & Leadership David E. Gullatt, Head Health & Exercise Sciences James Heimdal, Head Psychology & Behavioral Sciences Tony Young, Head

A.E. Phillips Laboratory School Carynn Wiggins, Director

Address

More information about the College of Education can be obtained by writing to Louisiana Tech University College of Education P.O. Box 3163 Ruston, Louisiana 71272 (318) 257-3712 and by visiting the College's web site at: http://www.latech.edu/education

Graduate Degrees Offered

Master of Arts

Counseling and Guidance (with concentrations in School Counseling and General Counseling) Educational Psychology (with concentrations in Educational Diagnostician*, Educational Psychology, Mild/Moderate*, Gifted/Talented*, Orientation and Mobility, Psychoeducational Research and Evaluation, and Industrial/Organizational Psychology) Master of Arts in Teaching Early Childhood (PK-3) Elementary Education (1-6) Middle School Education (4-8) Mathematics Middle School Education (4-8) Science Secondary Education (7-12) Mild/Moderate Special Education (1-12) Master of Education Art Education Health and Physical Education Music Education **Teaching Blind Students** Master of Science Curriculum and Instruction* Health and Exercise Science (with concentrations in Exercise Science, Adapted Physical Education*, and Teacher Preparation*) **Doctor of Education** Curriculum and Instruction* Educational Leadership* Doctor of Philosophy Counseling Psychology

* Requires teacher certification as prerequisite for admission.

Mission

The mission of the College of Education is three-fold

- to provide high quality educational experiences for current and prospective professionals from baccalaureate through doctoral levels;
- to enhance and extend the knowledge bases undergirding professional programs through research and other scholarly activities;
- to deliver professional services to the various business, civic, and educational communities through collaborative endeavors.

The mission is fostered through the following goals of the College of Education

- To recruit, admit, and graduate quality candidates and students who exemplify the capacity and commitment to become effective public educators, school counselors, psychologists, and health promotion specialists in diverse settings throughout Louisiana and elsewhere;
- To provide education and human sciences students with quality programs of study and diverse practical experiences that prepare them to be wholly proficient in the knowledge, skills, and dispositions of their chosen areas of concentration and which are linked to competencies identified by recognized professional organizations;
- To support continuous personal and professional development opportunities for all candidates, students, and instructors;
- To recruit and retain a diverse student body;
- To recruit and retain diverse faculty who demonstrate high levels of competencies in the College's programs of study and who are committed to the College's vision, mission, philosophical approaches, and professional model;
- To continue to collaborate closely with personnel in the other colleges at Louisiana Tech University as well as at other university campuses, state agencies, professional organizations, school and health systems, and the community-at-large who are involved in the preparation of teacher candidates and other program students;
- To continually refine curricula and instructional procedures ensuring that research, theory, and professional practice optimally inform all programs;
- To enable faculty and program graduates to serve as positive change agents through the implementation of innovative ideas, strategies, research, and technology;
- To generate original, quality research by faculty, candidates, and students consistent with the College programs and goals;
- To maintain a physical and psychological environment that is conducive to optimal student and faculty growth and development;
- To maintain positive interaction with alumni, corporate sector, public institutions, and other valued members of the College's external community.

Accreditation

The College of Education is a member of the American Association of Colleges for Teacher Education and of the American Association of Business Teachers. Degree programs offered by the College of Education at the undergraduate and graduate levels are accredited by the National Council for the Accreditation of Teacher Education. The PhD Counseling Psychology program is accredited by the American Psychological Association (APA). The address for APA is 750 First St., NE, Washington, DC 20002.

Division of Graduate Studies

The Division of Graduate Studies is administered by the Associate Dean, Education Graduate Committee, Graduate Faculty, Department Heads, and the Dean of the College. The purpose of the Graduate Studies Division is to encourage excellence in teaching, research, and service by the College of Education faculty and to administer all graduate programs offered by the College of Education.

The Education Graduate Committee consists of three Graduate Faculty appointed by the Dean of the College from the departments of Curriculum, Instruction, and Leadership; Psychology and Behavioral Sciences; Health and Exercise Sciences; and one graduate student. Actions of the Education Graduate Committee are subject to approval of the Dean of the College and, when appropriate, the Teacher Education Council, the University Graduate Council, and the Dean of the Graduate School.

The Associate Dean administers the graduate programs in accordance with approved procedures. The Education Graduate Committee, chaired by the Associate Dean, establishes and reviews admission/retention policies, acts on new program or course proposals, and reviews appeals for readmission.

A Review Committee, consisting of all graduate faculty, examines the credentials of graduate faculty applicants for evidence of continued scholarly productivity according to published criteria. Recommendations for membership on the graduate faculty are then made to the Dean of the College of Education and the Dean of the Graduate School.

Graduate students in the College of Education, along with graduate students in the other academic colleges, are eligible to compete for University Graduate Assistantship positions. Inquiries concerning these assistantships should be directed to the college Office of Graduate Studies.

Master's Degree Programs Admission Requirements: General

In addition to the general admission requirements of the Graduate School, a student seeking a Master of Science degree in any of the teaching areas must hold a teaching certificate for the area. In addition, students seeking the Master of Arts in Educational Psychology may also be required to hold a teaching certificate. Students desiring to enter a master's program in the College of Education should submit a Graduate Record Examination (GRE-General) score *before or at the time of application*. For conditional admission, students must have a Grade Point Average (GPA) of 2.25 on all hours pursued or 2.50 on the last 60 hours (excluding the MAT candidates). For unconditional admission, students must have a GPA of 2.50 on all hours pursued or 2.75 on the last 60 hours.

Following review of the undergraduate GPA, an admissions formula is calculated. The formula is GPA x 200 plus GRE V plus Q. Conditional admission is granted to those who have 1200 points while unconditional admission is granted to those

with 1300 points or more. Conditional status is removed upon earning a GPA of 3.0 on nine graduate credits.

New students who have not taken the GRE will be admitted to Graduate School "on condition" if their grade point averages are satisfactory. They *must* submit acceptable GRE scores during their first quarter of enrollment or be dropped from graduate status.

A maximum of 9 semester hours earned at Louisiana Tech in a non-degree status and prior to admission to the Master's degree program may be included in the 33-48 semester hours of required work.

MAT/MEd

Students entering the MAT and MEd degree programs must have a minimum cumulative UGPA of a 2.50 and present evidence of satisfactory completion of the PRAXIS I Reading, Writing, Mathematics and Specialty Content Exams. MAT and MEd applicants must present original score sheets of certifying scores on PRAXIS I and the content specialty exam for program admission. Certifying scores on the PRAXIS PLT must be documented prior to enrollment in internship.

MA Counseling & Guidance

Applicants must submit three letters of reference, GRE scores, and transcripts for admission consideration.

Programs

Please note that graduate credit cannot be awarded for any 300-level courses and only certain 400-level courses are approved to receive graduate credit.

A comprehensive examination must be passed during the last quarter of enrollment in the program.

Department of Curriculum, Instruction, & Leadership

The College of Education is currently redesigning all programs for Masters for Teachers and Educational Leadership. For further information on education degree programs offered by Louisiana Tech University, contact the specific departments for information. New curricula will be published in the 2004-2005 Catalog.

Master of Science in Curriculum & Instruction (MS)

The candidate seeking a Master of Science degree in Curriculum and Instruction will be required to earn a minimum of 36 semester hours, which may include 6 hours credit for a thesis. An approved plan of study must be submitted during the first quarter of enrollment.

To complete the 36-hour program, students choose a cognate of 15 hours (12-hour concentration from a designated area plus a three-hour elective) which may lead to an additional area of certification. Candidates may choose from the areas of adult education, early childhood, technology, reading, middle grades, special education, fifteen hours in a subject area, elementary or secondary principalship, and/or supervisor of instruction. Additional information regarding the cognate areas may be obtained from the Head of Curriculum, Instruction, and Leadership or from the Director of Graduate Studies. **MAT**

Students complete a 39 scmester hour program in Early Childhood (PK-3), Elementary Education (1-6), Middle Grades Mathematics (4-8), Middle Grades Science (4-8), and Secondary Education (7-12) with concentrations in Agriculture Education, Business Education, Foreign Language Education, General Science/ Biology Education, General Science/Chemistry Education, General Science/Earth Science, General Science/ Physics Education, Mathematics Education, Social Studies Education, or Speech Education. Students pursuing a degree with a concentration in Mild/Moderate complete a 36 hour program.

MEd

Students pursuing a Master of Education in Art, Health and Physical Education, and Music complete a 39 semester hour program. Students pursuing a Master of Education in Teaching Blind Students complete a 48 semester hour program. All

Advisors assist candidates in developing a Plan of Study during the first quarter of enrollment. A maximum of 9 semester hours may be transferred toward this degree with the approval of the advisor, department head, and college Director of Graduate Studies. No deviation can be made from the Plan of Study without prior permission of the advisor.

Department of Health & Exercise Sciences

Master of Science in Health & Exercise Science (MS)

The candidate seeking a Master of Science degree in Health and Exercise Science will be required to earn 36 semester hours, which may include 6 semester hours for a thesis. The program in Health and Exercise Science offers opportunities for various career interests providing with concentration areas in teacher preparation, adapted physical education, and exercise science.

The teacher preparation and adapted physical education concentration areas require a valid teaching certificate in physical education issued by the Louisiana State Department of Education or its equivalent. The exercise science concentration does not require teacher certification for admission to the program.

Teacher Preparation Concentration: The teacher preparation concentration is designed for individuals interested in teaching physical education at the elementary and/or secondary level. The teacher preparation concentration requires 18 hours in health and exercise science classes, 6 hours of health and exercise science electives, 6 required hours in professional education, and 6 elective hours in education.

Adapted Physical Education Concentration: The adapted physical education concentration is provided for individuals interested in teaching adapted physical education in a school setting. Twenty-one hours are required in health and exercise science, 6 hours are required in professional education, and 9 elective hours may be chosen from related areas within the University. Upon completion of the degree with an Adapted concentration, the candidate will be certified to teach adapted physical education in Louisiana.

Exercise Science Concentration: The exercise science concentration is available for individuals interested in exercise physiology. Eighteen hours of health and exercise science classes are required with 6 elective hours in health and exercise science, 3 required hours in professional education, and 9 elective hours from related fields from any college within the University.

Department of Psychology & Behavioral Sciences

Master of Arts in Counseling & Guidance (MA)

The counseling and guidance MA program is designed to prepare counselors for counseling and human service positions in educational institutions and other agencies. The program provides enrollees with basic preparation in counseling and psychology with various elective options offered to prepare counselors for particular institutional settings, e.g., educational, mental health, and community service agencies.

The school counseling concentration requires 33 semester hours of study including a practicum in a school setting. The general counseling concentration requires completion of a 48 semester hour curriculum (including a practicum and two internship courses.) The school counseling concentration is available on both the main campus and the Barksdale AFB campus. The general counseling concentration is offered on the main campus only. The general counseling concentration prepares students for Licensed Professional Counseling roles, the school counseling concentration for certified school counselor roles. Students should consult their advisors for current degree requirements.

Failure to maintain an overall gradc point average of 3.0, or receipt of any grade lower than C, or the receipt of more than 3 semester hours of C in graduate course work, will result in being dropped from the counseling and guidance program.

Master of Arts in Educational Psychology (MA)

The Department of Psychology and Behavioral Sciences offers the MA degree in Educational Psychology with six areas of concentration available. Some of the concentrations require a valid teaching certificate.

Master of Arts in Industrial/Organizational Psychology (MA)

Persons trained in Industrial/Organizational Psychology frequently find employment in private and public organizations, consulting firms, and government.

The candidate seeking a Master of Arts degree with a major in Industrial/Organizational Psychology must complete a prescribed course of study (see advisor for current degree requirements). Up to 9 semester hours may be taken in management (to be selected from Management 419, 447, 470, 472, 478, 537, 547, 571, or Economics 418). This program requires at least 18 hours credit from academic and/or professional courses designed exclusively for graduate credit.

Program Completion Requirements: Program Specific

All College of Education Programs

- Completion of all coursework on Plan of Study with minimum GPA of 3.0.
- Application for Graduation posted by University deadline.
- Satisfactory performance on a Comprehensive Examination during the final quarter.

MA Counseling & Guidance

 Counseling & Guidance students are required to complete all coursework with minimum GPA of 3.0 and no more than 1 grade of C.

MAT/MEd

- MAT/MEd students are required to satisfactorily complete a scholarly research paper (APA format) guided and approved by the advisor and Director of Graduate Studies at least four weeks prior to graduation, satisfactorily complete a professional portfolio during the final internship quarter, and satisfactorily complete all Louisiana state certification requirements.
- Satisfactory Completion of professional portfolio during final internship quarter.
- Satisfactory completion of all Louisiana certification requirements.

Doctoral Degree Programs

Louisiana Education Consortium The Doctor of Education Degree (EdD)

The Doctor of Education degree in Curriculum and Instruction or Educational Leadership is offered through the cooperative efforts of Grambling State University, Louisiana Tech University, and University of Louisiana at Monroe and is coordinated through the Louisiana Education Consortium Governing Board. All consortium institutions offer foundation courses and other graduate courses required in the EdD program in Curriculum and Instruction or Educational Leadership based upon faculty expertise and other institutional resources. The Doctor of Education degree in Curriculum and Instruction and in Educational Leadership is awarded by the institution to which the student has been admitted for doctoral study with course work being completed on all three campuses in order to provide diverse academic experiences. A unique strength of the Louisiana Education Consortium is that the three institutions strategically pool faculty, equipment, technology, and other resources.

The programs are designed for K-12 personnel, including teachers and administrators. The primary goal of the doctoral programs is the preparation of practitioner-scholars for roles in elementary, middle, and secondary school settings.

Admission Requirements for the Doctor of Education Degree

Student admission in conditional status to the Doctoral program is based upon the following criteria:

- Applicants must hold a master's degree from a regionally accredited institution in an area related to their proposed program of study.
- Applicants must have a minimum cumulative undergraduate grade point average of at least 2.75 and a minimum cumulative graduate grade point average of at least 3.25.
- Applicants must have completed the Graduate Record Examination (GRE) with a minimum score of 1000 (Verbal and Quantitative) or 1500 (Verbal, Quantitative and Analytical). Applicants must achieve a minimum score of 3.5 on the revised Analytical component of GRE. Miller's Analogies Test (MAT) may be used as an alternative to the GRE. A MAT score of 48 will be required for full admission status.
- Applicants must have teaching and or administrative experience in a kindergarten, elementary, middle, or secondary school or similar educational setting. A valid teaching certificate is required.
- Applicants must submit three letters of recommendation from individuals who are familiar with their character, teaching/administrative performance and ability to perform academically on the doctoral level.
- Applicants should complete their admission portfolios by inclusion of a personal resume and samples of their writing, particularly writing that has been published.
- Finalists in the application process may be required to have a personal interview with the doctoral admission committee on the campus from which the student wishes to receive a degree.
- In addition to demonstrating evidence of academic competence and capability, those persons selected each year for this program will be applicants who are already considered leaders in their educational fields

and who have clearly articulated their educational commitment to public schools. The application process is competitive.

Any applicant meeting all other requirements for admission except minimum GPA or GRE scores may appeal to the Consortium Governing Board for admission in regular status. The Board may admit to individual campuses, under these conditions, up to ten percent of the total number of students admitted during any semester/quarter. No student shall be admitted when the student's GRE test performance is in the lowest quartile among students taking the test on the same date.

Eligibility to Remain in the Doctor of Education Degree Program

Students enrolled in the doctoral program must maintain a minimum grade point average of 3.0 during each term of enrollment. Failure of the student to maintain an overall graduate grade point average of 3.0 or receipt of any grade lower than C or receipt of more than 6 semester hours of C in graduate course work, will result in termination from the program. The student must successfully complete all course work with a minimum grade point average of 3.00.

A graduate student who is denied admission to or further continuance in the Doctor of Education degree program may appeal for admission or readmission. All appeals must be approved by the appropriate committee on the student's campus of enrollment and by the Consortium Governing Board.

Program of Study for the Doctor of Education Degree

Coursework

The approved degree program for each doctoral student must include a minimum of 60 hours beyond the master's degree of which at least one-half must be in course work open only to doctoral students. Individuals possessing the Education Specialist Degree in the area in which they are pursuing the doctorate must complete a minimum of 45 additional semester hours of credit for the doctorate.

The consortium program for the Doctor of Education degree consists of the following components:

Education Foundations/Research/Statistics	10
Core Courses for Specific Degree	18
Cognate	
Elective	
Internship	6
Dissertation/Research Design Seminar	12
Minimum Total Semester Hours	60

Initial campus enrollment may not be changed during the student's matriculation in the doctoral program. Each student pursuing the doctorate through the Louisiana Education Consortium will be required to enroll in classes on the campus of each participating institution. A minimum of 15 semester hours of the minimum 60 hours required for the doctorate must be taken on the campuses of participating institutions other than the host campus. At least two courses must be taken on each campus.

Preliminary Examination

Upon completion of a minimum of 15 semester hours and not more than 27 semester hours of doctoral course work, each student will be required to take a preliminary examination. The preliminary examination is designed to measure student competence in 1) educational foundations, 2) research, 3) statistics and 4) general professional knowledge. The common six-hour written examination will be constructed by appropriate consortium faculty. Following the evaluation of the written preliminary examination, a one-hour oral examination may be conducted by the student's advisory committee. Student performance on both components of this examination will form the basis for any revisions of the program of study. Failure to pass this examination after two attempts will result in termination of the student from the program.

Comprehensive Examination

The second doctoral examination, the comprehensive examination, is administered when the student has completed all courses in the degree plan or is enrolled in them. This examination consists of a six-hour written component and a twohour oral examination. Failure to complete this examination satisfactorily will result in a revision of the program of study and an additional examination. Failure to pass this examination after two attempts will result in termination of the student from the program. After satisfactory completion of the comprehensive examination, the student is admitted to candidacy.

Internship

The Louisiana Education Consortium is unique in preparing students to become practitioner-scholars. These individuals will apply the knowledge acquired in program components to practical settings. To achieve this goal, 6 semester hours of internship are required. Students are eligible to apply for internship only after successful completion of the comprehensive examination. The internship *must* be completed at a site other than the student's place of employment. The student's doctoral committee will assist the student in internship placement.

Dissertation

In addition to the research requirements associated with each course, all doctoral students are required to complete a dissertation. The dissertation should be directed toward the degree specialization and must include field-based research. Students are encouraged to pursue the identification of a dissertation topic and the review of the literature prior to the, comprehensive examination. The dissertation prospectus must be approved by the student's doctoral committee after the comprehensive examination has been successfully completed. Other research requirements, for example, the use of human subjects, must be approved on the campus on which the student is enrolled.

The student will be expected to enroll for a minimum of three semester hours of dissertation credit for each semester/quarter in which the student is working with faculty on the dissertation. The student must be enrolled in a minimum of 3 semester hours of dissertation credit during the semester/quarter in which the degree is conferred. No fewer than 9 semester hours of credit shall be earned for successful completion of the dissertation.

Following completion of the dissertation, the student will be expected to defend it during a dissertation defense.

Doctoral Committee

The student's doctoral committee will consist of the major professor and a minimum of three additional faculty. The major professor is the committee chair and must be selected from the institution in which the student is enrolled. Each institution shall have at least one representative on each doctoral committee. Each committee will include a professor from the cognate area. Additional committee members may be added to address specific student program or research needs. The student's doctoral committee is selected by the student, appointed by the appropriate administrator on each campus, and approved by the Consortium Board.

Residence Requirements for the Doctor of Education Degree

Students pursuing the Doctor of Education degree will be required to spend at least two consecutive semesters/quarters in residence on the campus from which the degree is to be awarded. Students must be enrolled as full-time students during the time in which the residence requirement is being met.

Transfer of Credit for the Doctor of Education Degree

A maximum of 9 semester hours of graduate credit appropriate to the student's degree program may be transferred from other institutions offering regionally accredited graduate programs if earned in residence at that institution. Students are requested to submit catalog descriptions of courses under consideration. No credits for which a grade of less than **B** has been earned may be transferred. Neither internship nor dissertation credit may be transferred into consortium programs.

Time Limit for the Doctor of Education Degree

All course work, internships, and the dissertation must be completed within a 7-year time period from date of admission to the program. Courses transferred into the doctoral program must also be within the 7-year time limit for completion. Any appeal for extension must be approved by the institution's Graduate Council and the Consortium Governing Board.

Policies and Procedures

Policies and procedures for the Louisiana Education Consortium EdD are detailed in the Louisiana Education Consortium Handbook available in Prescott Library, in the University Bookstore and online. Use URL <u>http://www.latech.edu/tech/education/gradhandbook/education.html</u>.

The Doctor of Philosophy Degree Counseling Psychology (PhD)

The Department of Psychology and Behavioral Sciences offers the PhD degree in Counseling Psychology. The Doctor of Philosophy (PhD) degree in Counseling Psychology embodies a balanced training experience designed to train professional psychologists in the scientist-practitioner model. The scientistpractitioner is prepared to reflect attitudes and competencies arising from the effective internalization and blending of both scientific and counseling approaches. The Counseling Psychology program at Louisiana Tech University is firmly committed to the scientist-practitioner model, hence the primary goal of the program is to produce professional psychologists who are competent in both the conduct of research and professional practice. The PhD Counseling Psychology program is accredited by the American Psychological Association (APA).

Admission Requirements

Application for admission requires a completed Graduate School Application form, Graduate Record Exam (GRE) scores, official transcripts of all college or university work, three letters of reference, a professional vita, and a statement of purpose. Other requisites may be specified by the program and department such as, but not limited to, interviews and statements of intent, philosophy, and professional goals. Students arc admitted to the program on a yearly basis for the Fall quarter of each year. Admission to Louisiana Tech University's Counseling Psychology PhD program is highly competitive. Meeting minimal admission standards of the University or College does not guarantee admission. The Counseling Psychology Admissions Committee carefully reviews all applicants and selects those determined to be best qualified and best suited for training in the profession of Counseling Psychology. In addition to demonstrating evidence of academic competence and capability, persons selected cach year for this program are expected to show personal maturity, interpersonal confidence, and an outstanding ability to accept feedback and work cooperatively with faculty and peers.

Degree Requirements

Students admitted to the program will receive current degree requirements from their advisor. All students must complete required coursework, a qualifying research project, a minimum of 1000 hours in practicum training, a supervision training experience, a dissertation based on original research, and a oneyear full-time counseling psychology internship. The program is a full-time in-residence (including summers) program normally requiring 4 to 6 calendar years to complete.

Advising

At matriculation the student will be appointed a temporary advisor by the Counseling Psychology Core Faculty Training Committee. During or after the end of the first year, either the student or the advisor may request a change, depending upon mutually agreed upon needs and the needs of the Counseling Psychology Program.

Eligibility to Remain in the Doctor of Philosophy in Counseling Psychology Program

Each student's academic performance, progress toward degree completion, and professional performance will be reviewed at least annually by the Counseling Psychology Core Faculty Training Committee. Reviews may occur more frequently if judged appropriate or necessary by a vote of the Counseling Psychology Core Faculty Training Committee, A student who does not meet the minimal grade point average requirements specified by the Graduate School and Department (a minimum grade point average of 3.0; no grade lower than C: no more than 6 semester hours of C grades in the program) or is not meeting professional and ethical standards as determined by the Counseling Psychology Core Faculty Training Committee may he dismissed from the Counseling Psychology Program. Other reasons for dismissal include, but are not limited to, academic dishonesty, violations of provisions of the American Psychological Association's Standards for Ethical Conduct, and certain legal violations.

Program of Study for the Doctor of Philosophy in Counseling Psychology

Coursework

The approved degree program for each doctoral student must include 118 semester hours. Because of the dynamic nature of Counseling Psychology as a discipline, and the developmental nature of this Counseling Psychology program, the curriculum is necessarily dynamic and subject to change and refinement.

Each student's program of study will be individualized to some degree, based on that student's past training, experiences, coursework, needs, interests, and resources. Notwithstanding this individualization, the following core courses are required to meet minimum PhD requirements in Counseling Psychology:

Psychological Foundations (minimum)	
Empirical/Research Foundations (minimum)	
Required Professional Core (minimum)	
Supervised Practica (minimum)	
Dissertation Research (minimum)	
	4

Total Program Hours (minimum) 118

Qualifying Research Project

In lieu of a qualifying examination, all students must complete a defensible research project prior to taking the doctoral level comprehensive examination. Students are expected to exhibit mastery in research design and analysis through completion of a qualifying research project. This project is designed to ensure that doctoral students have mastered minimal standards in their knowledge of research design, methodology, and data analysis.

Students entering the program with a master's degree who have completed a master's level thesis may submit their theses for approval as their qualifying research project. Students entering the program with a bachelor's degree and those with a master's degree who have not completed an approved master's thesis are required to complete a qualifying research project prior to taking comprehensive exams.

Doctoral Comprehensive Examination

After an appropriate amount of coursework (minimum of 2 years or equivalent) has been completed, and after consultation with advisor approval, the student may take the Doctoral Comprehensive Examination in Counseling Psychology. Successful completion of the Doctoral Comprehensive Examination in Counseling Psychology is required prior to acceptance of internship offers, as well as prior to registration for dissertation hours.

The purpose of this examination is both educative and evaluative. The Doctoral Comprehensive Examination in Counseling Psychology assesses whether minimal competencies in the substantive areas of counseling psychology have been achieved through coursework and training experiences. However, the process of becoming a competent counseling psychologist extends well beyond coursework. In this regard, the Doctoral Comprehensive Examination in Counseling Psychology provides an impetus for students to integrate their knowledge base across educational and training experiences, as well as to move beyond minimal competencies and toward a solid professional identity.

Failure to successfully pass this examination after two attempts will result in termination of the student from the program. After satisfactory completion of the Doctoral Comprehensive Examination in Counseling Psychology, the student is granted doctoral candidacy.

Practicum Training

Students may enter the program with either a bachelor or master's degree in psychology or related field. Thus, considerable variation exists in students' counseting skills and relevant coursework. During their first year in the program, students enroll in a sequence of classes in which they are given didactic instruction in, and exposure to, counseling theories, techniques, group/multiculturalism, and psychopathology. Once students complete this sequence of courses, they are eligible to begin practicum training.

Practicum serves to ensure the competence of students in both the science and practice of Counseling Psychology. That is, throughout their practica experiences, students are expected to integrate relevant research findings with their clinical practice. Students are expected to begin practicum during the Summer quarter after their first year in the program. A 12-month beginning practicum experience, which involves supervised practicum placement at the Psychological Services Clinic (PSC) and practicum courses on campus, is followed by a similar more advanced 12-month experience either on or off campus. Following these two practica experiences (beginning and advanced), students may elect to continue receiving supervised clinical experiences through independent field placements.

Dissertation

One of the core components of the doctoral program in Counseling Psychology is the successful completion of a dissertation. The dissertation is an integral part of the doctoral program and demonstrates that a student has successfully acquired and mastered the fundamental components of conducting independent empirical research. The dissertation consists of original empirical research conducted under the direction of a Dissertation Chair and Dissertation Committee. A student must enroll in a minimum of 6 total semester credit hours for dissertation, and must enroll in at least 1 semester credit hour of dissertation every quarter after successful completion of the Doctoral Comprehensive Examination in Counseling Psychology. Following completion of the dissertation, the student is required to publicly defend this scholarly work.

Internship

Counseling psychology students are required to complete a predoctoral internship (PSYC 624) which must equate to one calendar year of full-time supervised counseling psychology experience (4 to 12 semester hours). Ideally, internship sites will be American Psychological Association (APA)-approved; however, at minimum the site must be Association of Psychology Postdoctoral and Internship Centers (APPIC) approved and be reviewed and approved by the Counseling Psychology Training Director, and the Counseling Psychology Program Core Faculty Committee at least one quarter prior to commencing the internship. Before accepting a predoctoral internship, the student must be in good academic standing as certified by the Counseling Psychology Director of Training and must have received specific permission to accept the internship from the Counseling Psychology Program Core Faculty Committee.

The internship is an essential component of doctoral training programs in Counseling Psychology. Internships should provide the trainee with the opportunity to take substantial responsibility for carrying out major professional functions in the context of appropriate supervision support, professional role modeling, and awareness of administrative structures. Students apply for and obtain an internship after completion of relevant didactic and practicum work, a qualifying research project, Doctoral Comprehensive Examination in Counseling Psychology, and before the granting of one degree.

The internship experience is crucial preparation for functioning as an independent professional Counseling Psychologist. It should be an intensive and extensive experience related to the graduate program's training objectives and should further the development of the knowledge, skills and clinical sensitivities of the trainee.

Transfer Credits

With the approval of the student's advisor, the Core Counseling Psychology Program Faculty Committee, the Department Head, and the College Director of Graduate Studies, a maximum of 18 graduate-level semester credit hours may be transferred in the PhD program in Counseling Psychology. Transfer credit is limited to the following courses: PSYC 602 (physiological Psychology), PSYC 601 (Historical Foundations of Modern Psychology), PSYC 604 (Theories of Social Psychology), PSYC 609 (Personality Theory), PSYC 608 (Life-Span Developmental Psychology), COUN 518 (Techniques of Counseling), PSYC 629 (Rotating Seminar in Counseling Theories), and approved electives. Students will work with their advisor who will then present the student's materials to the Core Counseling Psychology Program Faculty Committee in order to gauge equivalency of transfer coursework. (Students who have prior doctoral coursework, materials for transfer of more than 18 semester credit hours may be handled on a case-by-case basis). If a course from another college or university is approved for transfer credit, the student still has full responsibility for material covered in the comparable Louisiana Tech course that is part of the doctoral program curriculum and assessed by the comprehensive exam. This issue is particularly important because the comprehensive examination might contain material covered in a Louisiana Tech course that was not covered in a course for which transfer credit was obtained. Students need to ensure their own adequate preparation for the Doctoral Comprehensive Examination in Counseling Psychology

Time Limit for the PhD in Counseling Psychology

The doctoral degree in counseling psychology *must* be completed within 7 years after admission to the program following University policy.

Curriculum

The curriculum may be obtained by writing to the Director of Training, Doctoral Program in Counseling Psychology, Department of Psychology and Behavioral Sciences, P.O. Box 10048, Ruston, LA 71272.

Chapter 20 - Graduate Programs College of Engineering and Science

Administration

Interim Dean Stanley A. Napper Associate Dean, Undergraduate Studies James D. Nelson Associate Dean, External Programs Paul N. Hale, Jr. Director of Graduate Studies Bala Ramachandran **Biomedical Engineering** Jenna P. Carpenter, Academic Director Steven A. Jones, Program Chair Chemical Engineering, Bill B. Elmore, Academic Director Ronald H. Thompson, Program Chair Chemistry Bala Ramachandran, Academic Director L. Dale Snow, Program Chair Civil Engineering Bill B. Elmore, Academic Director Norman D. Pumphrey, Jr., Program Chair Computer Science Paul N. Hale, Jr., Academic Director Micheal B. O'Neal, Program Chair Electrical Engineering Paul N. Hale, Jr., Academic Director Robert B. Szlavik, Program Chair Industrial Engineering Jenna P. Carpenter, Academic Director Jun-Ing Ker, Program Chair Mathematics and Statistics E. Eugene Callens, Jr., Academic Director Bernd Schröder, Program Chair Mechanical Engineering Jenna P. Carpenter, Academic Director Bill Jordan, Program Chair Physics Bala Ramachandran, Academic Director Steven P. Wells, Program Chair

Address

More information about the College of Engincering and Science can be obtained by writing to College of Engineering and Science Louisiana Tech University P.O. Box 10348 Ruston, LA 71272 (318) 257-4647 and by visiting the College's web site at: <u>http://www.latech.edu/tech/engr</u>

Graduate Degrees Offered

Master of Science (MS)

Computer Science Engineering Engineering and Technology Management Mathematics and Statistics Microsystems Engineering (Professional Track) Molecular Sciences and Nanotechnology Physics

Doctoral of Philosophy (PhD)

Biomedical Engineering Computational Analysis and Modeling Engineering

Requirements for Admission

Students seeking admission to a graduate program are required to have an earned bachelor's degree from an accredited college or university and must satisfy the admission requirements outlined under the "Graduate School" section of this Catalog. An official Graduate Record Examination (GRE) score is required for admission. This requirement may be waived for exceptionally qualified students. Academic programs within the College may have additional requirements, and these are published on the respective program web pages.

Financial Assistance

Financial assistance is available to qualified graduate students in the form of a limited number of graduate assistantships. Out-of-state tuition is usually waived for students who are awarded assistantships. A limited number of fellowships are available to students in the doctoral programs; these fellowships may also include a full tuition waiver.

For a student on a full-time (20 hours of work per week) assistantship, the minimum required load is 6 semester hours of graduate credit per quarter, and the maximum load allowed is 9 credit hours (these hours must be listed on the student's Plan of Study).

Theses and Dissertations

A required element of the Master of Science degree (thesis plan), to be described below, is a thesis describing the student's research which is approved by the student's advisory committee, the Director of Graduate Studies, and the Dean of Graduate School. See the subsection on "The Thesis" in Chapter 15 of the Catalog for more details.

A required element of the Doctoral programs, to be described below, is a is a dissertation describing the student's research, approved by the student's advisory committee, the Director of Graduate Studies, and the Dean of Graduate School. See the subsection on "Research and Dissertation" in Chapter 15 of the Catalog for more details.

Submission of Thesis/Dissertation Proposals

Proposals describing the work to be done for a thesis (MS) or dissertation (Ph.D.) are required. Thesis proposals (MS) are due during the student's second quarter of enrollment in the given degree program and dissertation proposals (PhD) are due during the student's fourth quarter of enrollment.

Change of Thesis or Dissertation Advisor

After a thesis/dissertation proposal has heen submitted, the student may appeal for a change of advisor only under extreme circumstances. A written request for a change of advisor, including a description of the circumstances leading to the request and an explanation of why the student believes this is the only course of action remaining to be explored, must be submitted to the Director of Graduate Studies. The final decision on the matter rests with the Dean of Graduate School. If the appointment of a new advisor is appropriate, a new thesis/dissertation topic may also have to be adopted.

Presentation of Thesis/Dissertation Research

An oral presentation of each student's research for thesis or dissertation is required, which will be open to all faculty and students. This requirement may be waived only in cases where disclosure of classified or proprietary information is unavoidable.

The Master of Science Degree Programs

General Requirements

Thesis Plan. In addition to any required remedial course work not taken for graduate credit, the student will be required to complete a minimum of 30 semester credit hours (SCH) for graduate credit, of which a maximum of 6 hours will be earned in research and thesis. A minimum of 15 hours must be carned in courses open only to graduate students.

Non-Thesis Plan. A minimum of 36 SCH of graduate course work will be required, of which 3 SCH shall involve a practicum on an advanced topic approved by the student's advisory committee. The student must indicate his/her preference for the non-thesis plan during the first quarter of graduate enrollment when his/her Plan of Study is submitted.

The exercise of these options and the choice of courses will be proposed as a Plan of Study by the student and his/her Advisory Committee subject to review and approval (in order) by the major program chair, the Director of Graduate Studies, the Dean of the College of Engineering and Science, and the Dean of the Graduate School. The transfer of graduate credit from another graduate institution, graduate credit by examination, graduate credit as a graduating senior, or credit earned other than as a regularly enrolled graduate student in the College of Engineering and Science at Louisiana Tech must meet all University standards and is also subject to approval as part of the Plan of Study. Courses taken for graduate credit while the student is registered in the non-degree unclassified category will not be applied to a degree program without approval by the student's advisory committee and the Director of Graduate Studies.

A minimum Grade Point Average (GPA) of 3.00 is required in order to maintain "good academic standing" while in graduate school. Additional information is given in Chapter 15 of the Graduate School section of this Catalog.

Individual Requirements

Individual programs may, upon approval by the Dean of the College of Engincering and Science, impose additional requirements, such as written comprehensive exams.

Master of Science in Computer Science (MS)

The computer science program offers in-depth study and research in systems, theory, algorithms, and applied aspects of computer science. Completion of the master's degree will prepare a student for employment in government and industry and for doctoral programs in computer science.

Students entering the master's program in computer science will be expected to have a background equivalent to the bachelor's program in computer science at Louisiana Tech. Any core computer science courses in the BS program at Tech will be considered deficiency courses for master's students if they have not taken equivalent courses in their bachelor's programs. A student may challenge a deficiency course by successfully completing a comprehensive examination and, as appropriate, programming projects. In computer science a *thesis student* must complete 30 semester hours, including 3 core courses, 2 two-course sequences, a 500-level elective, and 6 semester hours of thesis. *Non-thesis students* must complete 36 semester hours, including 3 core courses, 3 two-course sequences, two 500-level electives, and 3 semester hours of practicum.

Master of Science in Engineering (MS)

For students desiring to major in biomedical, chemical, civil, electrical, industrial or mechanical engineering, a haccalaurcate degree with a major in the same engineering discipline from an Accreditation Board for Engineering and Technology (ABET) accredited program is the best preparation. Students who do not possess this background are not discouraged from applying, but, in general, must expect some non-graduate credit background work in order to pursue their graduate program effectively and successfully. Since the master's degree is generally accepted as a higher level of intellectual accomplishment than the baccalaureate degree, the student must expect his/her program to be structured accordingly. The student will be required to remove any deficiencies in mathematics, science, engineering, and communication. In particular, students with a baccalaureate in mathematics or the physical sciences should expect remedial courses stressing engineering analysis, synthesis, and design.

Master of Science in Engineering and Technology Management (MS)

The engineering management program is a practice-oriented (non-thesis) master's degree and focuses on managing technology and engineering functions. The program includes 33 SCH of coursework.

Master of Science in Mathematics & Statistics (MS)

The mathematics and statistics program offers in-depth studies in algebra, analysis, differential equations, probability and statistics, applied mathematics, and computational mathematics.

In addition to the University requirements for admission, the applicant must have a bachelor's degree with the equivalent of an undergraduate major in mathematics of not less than 30 semester hours. By the end of the first quarter of enrollment, the student is to choose one area of interest. An advisory committee that reflects the student's major area of interest will then be appointed.

Each candidate for the MS degree will be required to have credit in the following Louisiana Tech University courses or their equivalent at another college or university: Math 405, 414, 480, and Statistics 405.

In addition, each candidate for the MS degree must satisfy the conditions in one of the following two plans:

Plan A: Thirty semester hours of graduate credit must be earned. A minimum of 24 semester hours, 6 of which are to be for an acceptable thesis, must be earned in the Mathematics and Statistics Program. At least 9 semester hours, excluding thesis credit, must be in 500-level courses in the Mathematics and Statistics Program. Up to 6 semester hours of graduate courses may be chosen from a related field if approved by the advisory committee.

Plan B: Thirty-six semester hours of graduate credit must be earned. A minimum of 27 semester hours, 3 of which are to be for a practicum, must be in the Mathematics and Statistics Program. At least 9 hours, excluding Practicum, must be in S00-level courses in the Mathematics and Statistics Program. Up to 6 semester hours may be chosen from a related field if approved by the advisory committee. The Practicum will be a study in some area of mathematics or statistics not normally covered in a regularly scheduled course, or it will be a solution to a problem that requires mathematics or statistics at the graduate level.

Master of Science in Microsystems Engineering (MS) – Professional Track

The Microsystems Engineering Professional Track MS degree offers students an opportunity to learn microsystems and nanosystems engineering principles and obtain hands-on laboratory experience in microfabrication and microelectronics with state-of-the-art equipment. The degree requires 33 SCH of coursework and entails no thesis or research-based practicum. It is possible to complete this degree within one calendar year.

Master of Science in Molecular Sciences and Nanotechnology (MS)

The College of Engineering and Science offers an interdisciplinary MS degree in Molecular Sciences and Nanotechnology (MSNT) in collaboration with the College of Applied and Natural Sciences. Please see Chapter 16 of this Catalog for more information.

Master of Science in Physics (MS)

The physics program offers instruction and opportunities for research in the areas of solid state physics, high energy physics, computational physics, and nuclear physics. The completion of the master's program will prepare the student for further work toward the doctorate degree as well as for employment in government and industry.

In addition to the admission requirements of the Graduate School, the applicant must have a bachelor's degree with the equivalent of an undergraduate major in physics.

The minimum residence requirement for the master's degree with a major in physics is 3 quarters.

Each candidate for the MS degree must satisfy the conditions in one of the following two plans:

Plan A: The candidate for the master's degree must complete a minimum of 24 semester hours of graduate credit in physics plus Math 502 and Math 544, or other courses acceptable to his/her thesis committee. Six of the required 30 hours must be earned by taking Physics 551, Research and Thesis, and by completing an acceptable master's thesis.

During the first quarter of residence, the student must take a preliminary oral examination over undergraduate physics. In addition, the student must pass an oral examination on his/her thesis.

Plan B: The candidate must earn 36 hours in this non-thesis plan as approved by his/her advisory committee. At least 27 hours must be in 500-level courses in the physics program and 9 hours in mathematics or other courses acceptable to the student's advisory committee. During the first quarter of residence, the student must take a preliminary oral examination over undergraduate physics. In addition, the student must pass an oral examination over his/her graduate work.

The Doctoral Degree Programs

The Louisiana Tech University College of Engineering & Science offers four doctoral programs. A Doctor of Philosophy degree is offered in the Biomedical Engineering. An interdisciplinary Doctor of Philosophy degree in Engineering is offered in which the research is aligned with two Centers of Excellence. The College is also the major participant in the Interdisciplinary Doctor of Philosophy degree in Computational Analysis and Modeling (CAM) and is a joint partner in the combined MD/PhD (Biomedical Engineering) Program with Louisiana State University Medical Center – Shreveport.

Admission to the Doctoral Programs

Prior to entering the Doctor of Philosophy program in Engineering a student must have a degree in an acceptable engineering or related curriculum. For students desiring to major in biomedical engineering, a baccalaureate degree with a major in an engineering discipline from an ABET-accredited institution is the best preparation. Students who do not possess this background are not discouraged from applying but, in general, must expect some amount of undergraduate remedial courses stressing engineering analysis and synthesis to prepare them for pursuit of their graduate program effectively and successfully.

Students entering the Doctor of Philosophy in Engineering program or the Doctor of Philosophy program in Biomedical Engineering will be required to remove any deficiencies in mathematics, science, engineering, and communication.

An official GRE score is required for admission. This requirement may be waived for exceptionally qualified students. Each doctoral program has its own specific admission criteria. These are published on the web pages describing these programs.

The Doctor of Philosophy Degree Program in Biomedical Engineering (PhD)

The program is designed to

- strengthen the foundation in engineering, mathematics, and biomedical engineering principles by advanced courses in these areas;
- provide depth in a specific area of concentration within biomedical engineering;
- provide the skills and experience necessary to fully utilize the resources available in the field; and
- prepare graduates to conduct independent study and research.

In order to pursue the degree, a student must be accepted as a major in the biomedical engineering program. The program is a balance of intensive and extensive formal course work as a foundation, a sequence of examinations, and the production of a dissertation.

The program consists of a minimum of 48 hours credit in formal course work, exclusive of research and dissertation credit, beyond the baccalaureate. Choice of acceptable graduate level courses, including choice and composition of major and minor areas, will be established by the advisory committee in concert with the doctoral student, subject to approval as part of the plan of study.

The typical program includes a minimum of 48 hours of course work (this may cross departmental lines), mathematics, physics, chemistry, and biology. This coursework will include a core sequence of 12 hours in biomedical engineering. Individual interests, needs, and the demands of the engineering profession, both current and anticipated, will guide course selection, with flexibility as the keynote. A minimum of 15 hours must be earned in Engineering 651, Research and Dissertation. No foreign language is required for the PhD in Biomedical Engineering. English is the language of communication, and both oral and written skills are important.

The schedule of examinations consists of a comprehensive examination at or near the completion of formal course work and a defense of the dissertation. At least 60% of all those serving on the advisory committee must recommend that the student has satisfactorily passed any of the examinations. None of the examinations may be taken more than 3 times.

The Doctor of Philosophy Degree Program in Computational Analysis and Modeling (PhD)

The College of Engineering and Science is the major participant in the interdisciplinary PhD in Computational Analysis and Modeling (CAM). See Chapter 16 of this Catalog for the full program description.

The Doctor of Philosophy Degree Program in Engineering (PhD)

The PhD in Engineering is an interdisciplinary degree with a strong research emphasis. The program prepares candidates for both academic and industry carcers. Interdisciplinary graduate degrees have been advocated in recent reports by the National Academy of Engineering and the National Research Council, among others. This degree focuses on the technical strengths and research focal areas of the Institute for Micromanufacturing and the Trenchless Technology Center. Students must choose research projects for their dissertation in thematic areas closely aligned with these Centers.

Students in this program are expected to complete 66 graduate hours (including dissertation) beyond the baccalaureate degree. These hours will be approved as part of a comprehensive plan of study by the student's PhD Advisory Committee. Eighteen credit hours of core courses are required of all students in the program. These courses are intended to provide a strong fundamental set of research capabilities and to help individual students bridge the gap to other disciplines preparatory not only to dissertation work but also to their future career. The remaining courses are chosen in relation to the thematic areas, which currently are microelectronics, micromanufacturing, and materials and construction systems.

A student must register for a minimum of 18 credit hours in Research and Dissertation (Engr 651). The topic will be selected in accordance with and approved by the student's advisory committee and the Director of Graduate Studies.

The schedule of exams consists of a comprehensive examination at or near the completion of formal coursework and a defense of the dissertation. The comprehensive examination consists of written and oral parts organized by the Ph.D. in Engineering Steering Committee. At least 60% of those faculty serving on the Advisory Committee must recommend that the student has satisfactorily passed any of the examinations. None of the examinations may be taken more than three times.

The minimum residence requirement for the doctoral degree is 8 quarters beyond the bachelor's degree. The student is required to spend at least 3 quarters beyond the first year of graduate study in continuous residence. The transfer of course work from a recognized graduate school carries with it the transfer of residence credit, but a minimum of 24 scmester hours of graduate credit beyond the first year of graduate study must be earned in residence at Louisiana Teeh University. PhD students are required to complete the doctoral program in its entircty within 3 years after successful completion of the comprehensive examination.

The Combined MD/PhD Degree Program

The combined MD/PhD program is designed to promote the education of physician-scientists by allowing qualified students to progress concurrently through the School of Medicine at Louisiana State University-Shreveport and the Graduate School at Louisiana Tech University in a more efficient and productive manner than could be otherwise accomplished. The program is administrative in nature and does not alter the degree requirements, curricula, courses, or admission requirements at either school.

Application

Students who have not matriculated in either school shall make separate application to the School of Medicine at Louisiana State University-Shreveport and the Graduate School at Louisiana Tech University, and to the MD/PhD Program through the MD/PhD Program Supervisory Committee. Students must be accepted by each of the schools and by the MD/PhD Program Supervisory Committee.

Students will meet the admission and program requirements of each school and will maintain the level of good standing requirement by each school to continue in the program.

Special circumstances and exceptions may be considered by the MD/PhD Supervisory Committee. Exceptions may be implemented if approved by the MD/PhD Supervisory Committee and the Deans of the respective schools.

Administration

Dean

Edward C. Jacobs Associate Dean Dennis E. Minor School of Architecture Henry V. Stout, Director School of Art Dean C. Dablow, Director School of Literature and Language Carole S. Tabor, Director Department of History Stephen Webre, Head School of the Performing Arts Kenneth Robbins, Director Department of Speech J. Clarice Dans, Head

Address

More information about the College of Liberal Arts can be obtained by writing to College of Liberal Arts Louisiana Tech University P.O. Box 10018 Louisiana Tech University Ruston, LA 71272 or by visiting the College of Liberal Arts web site: <u>http://www.latech.edu/liberal-arts/</u>

Graduate Degrees Offered

Master of Arts

English History Speech Speech-Language Pathology and Audiology

Master of Fine Arts

Graphic Design Photography Studio Art Interior Design

Admission Requirements

GRE scores are one factor used in evaluating applications for graduate studies in the College of Liberal Arts. Only after the GRE scores are received will the applicant receive the final review for admission to the relevant graduate program. As noted in the general admissions requirements for the Graduate School, students applying for graduate programs in the College of Liberal Arts must submit GRE scores at least four weeks prior to registration. In exceptional circumstances, that deadline may be extended but only to the end of the student's first quarter.

Thesis/Non-Thesis Plans

Academic units in the College of Liberal Arts differ in their thesis requirements. Some units do not require a thesis while other units have both thesis and non-thesis tracks. The thesis may be an academic thesis or combined academic/creative thesis, depending on the academic unit. Students should check with their academic unit about thesis options and guidelines for those theses, in addition to checking with the Graduate School about general thesis guidelines.

Division of Research

Louisiana Tech University is committed to quality in teaching, in research and creative activity, and in public service. The Division of Research in the College of Liberal Arts serves to promote research and creative activity by faculty and students. The main sources of research funds are federal and state agencies, private foundations, and industry.

School of Art and School of Architecture

Master of Fine Arts (MFA)

The Master of Fine Arts degree is offered by the School of Architecture and the School of Art and is designed for those interested in the creative aspects of the arts. The Master of Fine Arts degree is the recognized terminal degree for the visual artist. Work toward the Master of Fine Arts degree may be undertaken in four areas:

- Studio (2D or 3D) School of Art
- Graphic Design School of Art
- Photography School of Art
- Interior Design School of Architecture

Though distinct in character and professional goals, these programs complement and enrich one another. The programs are competitive, and interested students are encouraged to visit the campus to discuss their cducational/career plans with the faculty.

Facilities

The School of Art occupied new facilities in the Spring of 1997. The 40,000 sq. ft. main structure houses a 3,000 sq. ft. gallery, a 100-seat auditorium, and two state-of-the-art computer labs. Other facilities include a 10,000 sq. ft. sculpture, woodshop, printmaking, and ceramic lab. Each graduate student is assigned to one of 48 private studios in another facility. These facilities are supplemented by visiting lecturers, film presentation, and workshops.

Accreditation

The School of Art Bachelor and Master of Fine Arts degrees are accredited by the National Association of Schools of Art and Design. The Master of Fine Arts in Interior Design degree is also accredited by the National Association of Schools of Art and Design.

Admission Requirements

Although the University accepts applications until 3 weeks prior to registration, this deadline, for a number of reasons, is not adequate for application to the MFA Program. The deadlines for entry into the MFA program are as follows:

- Fall Quarter Admission: May 1
- Winter Quarter Admission: 8 weeks prior to Winter Quarter Registration
- Spring Quarter Admission: 8 weeks prior to Spring Quarter Registration

In addition to meeting the general admission requirements for the Graduate School, an applicant must submit a slide portfolio that demonstrates a sufficient undergraduate art background. A Bachelor of Fine Arts for the School of Art or the Bachelor of Interior Design for the School of Architecture is the best preparation. However, students who do not possess these backgrounds are not discouraged from applying, but in general must expect some undergraduate background work or additional graduate level work in order to pursue their graduate program effectively.

Requests to begin the MFA Program in the Summer Quarter are not allowed because adequate evaluation and administration of new graduate students are not possible during this time.

The School of Art believes the growth of a student's knowledge of art is immeasurably enhanced through his/her association with other graduate students by sharing discussion and research on the variety of concerns in each discipline. All MFA candidates are therefore required to participate in a seminar experience during Fall and Winter Quarters. Seminars are conjoined with studio courses, and credit will be assessed based on the quality of the total work produced.

Transfer Credit

A maximum of 21 credit hours is eligible for transfer from another institution, contingent upon graduate committee review and approval. A candidate's status is subject to review at any time. At the conclusion of graduate study, the candidate is expected to present a one-person exhibition, or similar demonstration of his/her accomplishments, which is accompanied by a written and visual record.

Graduation

The candidate for the Master of Fine Arts must complete a minimum of 60 graduate credit hours. Additional course work beyond the 60-hour minimum may be required. A graduate committee, appointed for each student, shall review the qualifications of the student and set forth the courses required for the degree.

Financial Support

A limited number of graduate assistantships are available. Graduate Assistants receive a stipend for the academic year (three quarters) and a waiver of out-of-state tuition, where applicable.

- The deadline for assistantship applications is April 1.
- The deadline for Department Assistantships is April 1
- The deadline for University Assistantships is February 1

Department of English

Master of Arts in English (MA)

The graduate program in English is designed to be thorough, comprehensive, and culturally broad. Graduates of the program typically go on to doctoral programs in English or pursue teaching careers at the high school or junior college level. Those students choosing the technical writing concentration often enter business and government. The Department of English maintains a collaborative electronic-learning agreement with University of Louisiana at Monroe and a cooperative agreement with Louisiana State University at Shreveport to provide graduate-level video courses. Details of these agreements are available from the department office. The English Department offers a limited number of teaching assistantships awarded on a competitive basis.

Admission Requirements

In addition to the Graduate School admission requirements, an applicant must have a bachelor's degree from an accredited college. For unconditional admission, normally, a minimum of 24 hours must be in English. At least 12 of these 24 hours should be junior or senior-level course work. An applicant who does not meet these additional requirements may be admitted conditionally and required to take additional course work.

Thesis/Non-Thesis Plans

Plan A (Thesis): The student must complete a minimum of 33 hours of graduate credit in English, consisting of courses numbered 400 (for graduates and advanced undergraduates) and 500 (for graduate students only). Six of the 33 hours must be earned in Liberal Arts 551, Research and Thesis. In addition to the 6 thesis hours of Liberal Arts 551, the 33 hours must include at least 4 other 500-level courses exclusively for graduate students, one of which must be English 591. Finally, although a comprehensive examination is not given under Plan A, the student must pass a one-hour oral examination.

Plan B (Non-Thesis): The student must complete a total of 33 hours of graduate credit and pass a comprehensive written examination based on the course work taken for the degree. At least 6 of the required 11 courses must be at the 500 level (for graduate students only), one of which must be English 591. The remaining 5 courses may be taken either at the 500 level (for graduate students only) or at the 400 level (for advanced undergraduates and graduate students).

All English courses numbered 400 or above in the current Catalog, unless otherwise designated, are acceptable for graduate credit toward the degree of Master of Arts in English.

Department of History

Master of Arts in History (MA)

The graduate program in history is designed to train postgraduate students in the knowledge and skills necessary to the professional practice of bistory as preparation for further study (especially the Ph.D. in history), for employment or advancement in fields in which such skills are desirable, and for personal cultural enrichment. Combined with a teacher certification program, the MA in history is excellent preparation for teaching social studies at the secondary level. The Department of History maintains a collaborative agreement with the University of Louisiana at Monroe and a cooperative agreement with Louisiana State University at Shreveport. Details of these agreements are available from the department office.

The Department of History offers both thesis and non-thesis programs of study leading to the Master of Arts in History, with concentrations in Southern History, History of Culture and Ideas, History of American Foreign Policy. The major specialty concentrations in Southern History and the History of Culture and Ideas are offered under the collaborative agreement with the University of Louisiana at Monroe. Some courses related to these concentrations are taught by ULM faculty members who are also available to direct independent study experiences and to serve on thesis and examination committees. Individualized concentrations may be permitted with the approval of the graduate advisor and the graduate advisory committee.

Admission Requirements

In addition to the admissions requirements of the Graduate School, the applicant must have the equivalent of an undergraduate minor, or 21 semester hours, in history. A student wishing to pursue the Master of Arts in history will elect a major specialty concentration, which will consist of at least 12 semester hours of thematically related course work chosen in consultation with the graduate advisor.

Thesis/Non-Thesis Plans

The degree of Master of Arts in History may be completed under either Plan A (Thesis) or Plan B (Non-Thesis):

Plan A (Thesis): The thesis plan is recommended for the student who anticipates continuing graduate study beyond the Master of Arts degree. It may also be appropriate to the professional or personal goals of other students. The student must complete 30 semester hours of graduate credit, 6 hours of which will be given for successful completion of a thesis. The thesis course is Liberal Arts 551, Research and Thesis (3 semester hours credit), which may be repeated once for credit. At least 12 of the remaining 24 hours must be completed in 500-level courses open only to graduate students. History 505 is required of all students. The remaining courses may be taken either at the 500-level (for graduate students).

Plan B (Non-Thesis): This plan is intended primarily for the student who does not anticipate pursuing doctoral-level work in history following completion of the Master of Arts degree. The student will not prepare a thesis, but must pass a written examination in his or her area of major specialty concentration or other approved area of course work specialization. Also, the student must submit at least two substantial research papers prepared in 500-level courses for departmental approval as evidence of research and writing skills attained. The student must complete 33 hours of graduate credit in history, at least 18 of which must be completed in 500-level courses open only to graduate students. History 505 is required of all students.

Every candidate for the Master of Arts degree in History must pass an oral examination covering his or her entire program of study.

All history courses numbered 400 or above in the current Catalog of Louisiana Tech University, unless otherwise designated, are acceptable for credit toward the degree of Master of Arts with a major in history. Six hours of approved course work may be taken outside the discipline of history.

Financial Assistance

Graduate assistantships are available to qualified students on a competitive basis. Other forms of competitive assistance include the McGinty Graduate Fellowship, the Louise B. Johnson Graduate Scholarship, and the Morgan D. Peoples Graduate Scholarship.

Department of Speech

The Master of Arts in Speech (MA)

Graduate programs in the Department of Speech provide training and experience in the following concentration areas: Speech Communication, Speech- Language Pathology and Audiology, and Theatre. The student may choose a program of study which allows concentration in any one of these areas. All graduate students in Speech-Language Pathology and Audiology and Speech Communication must demonstrate acceptable proficiency in research and writing. Such proficiency must be demonstrated in Speech 500: Introduction to Research. Speech courses numbered 400 or above in the current Catalog may be considered for credit toward the degree of Master of Arts with a major in Speech.

General Degree Requirements

Applicants who do not have an undergraduate major in one of the arcas of Speech noted above are expected to satisfy any course deficiencies in the initial stages of their graduate program. The graduate student in Speech must complete 36 semester credit hours. The student will follow one of two plans of study.

Thesis/Non-Thesis Plans

The degree of Master of Arts in Speech may be completed under either Plan A (Thesis) or Plan B (Non-Thesis):

Plan A (Thesis): Students must complete a minimum of 30 hours of graduate credit in Speech, or 24 hours in Speech and 6 hours in a related field, which are approved by his/her major professor and by the Head of the Department of Speech or the Director of the School of the Performing Arts. Twelve of the required 30 hours must be in courses offered exclusively for graduate students (500-level), not including thesis courses. In addition, six hours of the total must be earned by taking for credit Liberal Arts 551: Research and Thesis and by completing an acceptable thesis. A written and an oral examination on all course work and the thesis are required.

Plan B (Non-Thesis): The requirements are the same as those under Plan A, except that the student will not write a thesis and will complete a minimum of 36 hours of graduate credit. Graduate credit, not to exceed six hours, may be earned in courses in fields related to Speech. Such credit must be approved by the student's advisor and the Head of the Department of Speech or the Director of the School of the Performing Arts. All graduate students in Speech-Language Pathology and Audiology, as well as Speech Communication, must demonstrate acceptable proficiency in research and reporting. Such proficiency must be demonstrated in Speech 500: Introduction to Research.

All speech courses numbered 400 or above in the Catalog are acceptable for credit toward the degree of Master of Arts in Speech.

Concentration in Speech Communication

The graduate program in Speech Communication offers students advanced study and scholarly research in applied organizational communication. With a goal of professional communication competency, the program allows the student to focus on the study of information flow within an organization and the impact of communication on individuals entering, working in, and exiting organizations. The combination of communication theory and applied course work is central to the graduate education experience.

Concentration in Theatre

Admission Requirements

Admission to the program includes formal application to the Louisiana Tech University Graduate School and campus audition/interview. (A video audition or interview off campus can be substituted). Official GRE scores are required.

Course Requirements

The graduate program concentration in Theatre (administered in the School of the Performing Arts) requires that students take 15 credit hours in a general core including Speech/Theatre 515, 518, 531, 533, and 536; 15 hours in an area of theatre concentration; and 6 hours in elective or related field courses, approved by the Director of the School of the Performing Arts.

Thesis/Non-Thesis Plans

Students pursuing the Master of Arts with theatre concentration will follow either Plan A or Plan B as outlined above in "Master of Arts in Speech: General Degree Requirements."

Admission Requirements

All prospective graduate students must meet the general admissions requirements of the Graduate School and those who do not have an undergraduate major in Speech Communication are expected to satisfy any course deficiencies in the initial stages of their graduate program. Graduate students in the speech communication emphasis will complete one of the two degree plans discussed above in "Master of Arts in Speech: General Degree Requirements."

Practica

All graduate students are required to complete practicum course work. Practica in speech communication are viewed as educational tools that provide meaningful professional experience related to the study of communication in organizational settings. Students are encouraged to schedule their practica in organizations and/or areas in which they would one day like to work (e.g., business and industry, higher education). The academic course work and practica are sequenced so that a student can normally fulfill the requirements for the Master of Arts in Speech Communication in two years. Speech communication course work is offered in organizational communication, research methods, communication theory, and special communication topics related to faculty and students' interests. Graduates can expect to work in a wide range of professions including human resources development, corporate communication, training and development, public relations, communication consulting, education, and other related fields.

Master of Arts in Speech-Language Pathology and Audiology (MA)

Professional Accreditation

The graduate programs in Speech-Language Pathology and Audiology are accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association (ASHA). The purpose of accreditation is three-fold:

- to promote excellence in the preparation of graduates to enter the professions of Speech-Language Pathology and Audiology through the development and implementation of standards of educational quality;
- to protect and inform the public by recognizing programs that meet or exceed the educational standards; and
- to encourage graduate programs to monitor and enhance the efficacy of their educational activities by means of continuous self-study and improvement.

Accreditation is limited to those graduate educational programs that prepare persons for entry into the professions.

Admission Requirements

Therefore, in addition to meeting the general admission requirements of the Graduate School, students seeking admission to the graduate program in Speech-Language Pathology and Audiology must be recommended for admission to the graduate program by the graduate admissions committee of the Department of Speech. The committee evaluates each applicant based on grade point averages, Graduate Record Examination (GRE) scores, letters of intent, and three letters of recommendation (at least one of which must come from a faculty member who taught the applicant in a communicative disorders course). The departmental graduate admissions committee may ask applicants to schedule personal interviews. Only those students who can demonstrate strong potential for completing all degree requirements are accepted into the program.

The graduate admissions committee will review only those applications that are completed by March 15. The committee's review process is completed by April 15, and applicants are notified accordingly. Students may enter the graduate program only in the Fall Quarter of each academic year.

Graduation

The minimum number of graduate semester hours required for the Master's degree in Speech-Language Pathology and Audiology is 36. However, students majoring in Speech-Language Pathology and Audiology often have to take 40 or more semester hours in order to complete clinical practicum requirements. The student with an undergraduate degree in speech-language-hearing typically requires two years of fulltime study (including at least one summer) to complete all requirements for the degree. A student who does not hold an undergraduate degree in speech-languagehearing is expected to satisfy any course deficiencies in the initial stages of the graduate program. This is necessary in order for the student to meet the academic and clinical practicum certification requirements of the ASHA. All courses necessary to satisfy any deficiencies are offered in the Department of Speech. Graduate students in Speech-Language Pathology and Audiology will complete one of the two degree plans discussed above in "Master of Arts in Speech: General Degree Requirements."

Professional Certification

The academic course work and clinical practicum experiences are sequenced so that the student meets the academic and clinical training requirements for the ASHA Certificate of Clinical Competence (CCC) in either audiology or speech-language pathology prior to graduation. All students in Speech-Language Pathology and Audiology are required to meet the academic and clinical experience requirements set by the ASHA for the Certificate of Clinical Competence in Speech-Language Pathology or Audiology prior to completion of the master's degree. Speechlanguage pathology course work is offered in adult and child language disorders, neurological disorders, phonology, stuttering, eleft palate, diagnostic procedures, speech science, voice disorders, and research methodology. Audiology course work is offered in hearing disorders, differential, pediatric, and industrial audiology, instrumentation and calibration, central auditory processing disorders, physiological tests of auditory function, hearing aids, aural rehabilitation, and research methodology. In addition to clinical practicum experiences obtained through the Louisiana Tech Speech and Hearing Center, located on campus, graduate students obtain practicum experiences in a variety of off-campus clinical sites in order to earn the clinical clock hours required for certification. Students should be aware that it is necessary that they be assigned to affiliated off-campus clinical training sites in order to earn the clinical clock hours required for certification. Each student will be responsible for transportation and his/her own expenses when assigned to one of these sites.

Doctor of Audiology (Au.D.)

The primary mission of the doctoral program in audiology (Au.D.) offered by the Department of Speech is to prepare students to enter the professional practice of audiology and to satisfy national certification requirements for a doctorate as the entry level degree to practice. The Au.D. may be earned by following a Post-Baccalaureate or a Post-Master's program of study. Information on admission requirements, program requirements, plans of study, residence requirements, assistantships, practicum training, dissertations, and comprehensive examinations is available from Dr. J. Clarice Dans, Head, Department of Speech, Louisiana Tech University, P.O. Box 3165, Ruston, LA 71272 (Phone 318-257-4764) and from the Department of Speech web site at http://www.latech.edu/tech/libcral-arts/graduate-degrees.shtml

PART IV **Course Descriptions**

Courses are numbered as follows: freshmen - 100 level; sophomores -200 level; juniors - 300 level; seniors - 400 level; graduate students - 500 & 600 level. Certain 300- and 400-level courses may be taken by graduate students for graduate credit; in such cases, graduate students complete additional research assignments to bring the courses up to graduate level rigor. The letter G in parentheses, (G), appears at the end of those 400-level undergraduate course descriptions which are approved for graduate level work. Only students admitted to the Graduate School may enroll in 500 & 600 level courses.

No credit is allowed in any curriculum for any course with a catalog number beginning with zero (0) (e.g. ENGL 099). These courses arc open only to those students who place in them by examination.

The numerical listing after each course title gives the following information: the first number represents lab hours per week; the second digit represents the number of 75-minute lecture periods per week; the third digit is the semester credit hours earned for completion of the course. A few courses will have a fourth digit in parentheses. This means the course may be repeated for credit and the fourth digit designates the total amount of semester hour credit that may be earned through repetition of the course. Typically, these courses are research-, performance-, or project-oriented and found in the 300-, 400-levels (undergraduate student) or 500-, 600-levels (graduate student).

Some courses require the student to complete a prerequisite course or to secure special permission from faculty prior to enrolling in the course. These prerequisites are listed immediately after the numerical semester credit hour designations. Each student is responsible for complying with prerequisite course work requirements and special instructions.

NOTE: Course offerings for each term are listed in the Quarterly Schedule of Classes, published prior to Early Registration each quarter. Offerings by quarter are subject to change to accommodate needs of students.

ACCOUNTING (ACCT)

- 201: Principles of Financial Accounting. 0-3-3. Basic understanding of accounting and financial reporting concepts and the significance of financial accounting information in decision-making.
- 202: Principles of Managerial Accounting. 0-3-3. Preq., ACCT 201 or 206. Basic understanding of managerial accounting concepts and the significance of accounting information for managerial decision-making.
- 206: Financial Accounting for Entrepreneurs. 0-3-3. Not open to students enrolled in the CAB. This course is designed to provide basic understanding of financial accounting and reporting from an entrepreneurial perspective.
- 303: Intermediate Accounting. 0-3-3. Preq., ACCT 202. The theory and application of accounting procedures to financial reporting.
- 304: Intermediate Accounting. 0-3-3. Preq., ACCT 303. The theory and application of accounting procedures to financial reporting.
- 305: Intermediate Accounting. 0-3-3. Preq., ACCT 304. The theory and application of accounting procedures to financial reporting.
- 307: Income Tax. 0-3-3. Preq., ACCT 201. A study of Federal income tax laws and state income tax laws and their effect on individual income.
- 308: Managerial Cost Accounting, 0-3-3. Preq., ACCT 202. A study of cost systems; accounting peculiar to manufacturing enterprises; making cost statements; and solving cost problems.
- 401: Internship in Accounting I. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.
- 402: Internship in Accounting II. 3 hours credit. (Pass/Fail) Preq. consent of j instructor and senior standing. On site, supervised, structured work experiences in the field of business.
- 404: Tax Factors in Entrepreneurial Decision Making. 0-3-3. Preq., ACCT 201 or 206. Not open to undergraduate accounting majors or MPA students. This course is designed to provide non-accounting majors with an understanding of major federal income tax, estate, and gift tax issues that confront entrepreneurs. (G)
- 406: Advanced Income Tax. 0-3-3. Preq., ACCT 307. A continuation of ACCT 307 with further study into tax problems of fiduciarics, partnerships, and corporations; solutions of problems. (G)

- 412: Municipal and Government Accounting, 0-3-3. Preq., ACCT 303. Accounting procedures of the Federal, municipal, and state governments. Attention is given to the preparation of budgets, financial statements, and to budgetary control. (G)
- 413: Auditing. 0-3-3. Preq., ACCT 305. The study of basic auditing concerns, objectives and methodology
- 414: Advanced Accounting. 0-3-3. Preq., ACCT 305. Study of business combinations and consolidated financial statements; partnerships; international operations; fiduciary accounting; and governmental and notfor-profit entities. (G)
- 433: Accounting Systems. 0-3-3. A study of accounting systems and systems installations.
- 491: Advanced Theory of Accounting. 0-3-3. Preq., permission of adviser. Intensive study of current advanced accounting theory. (G)
- 493: Advanced Auditing. 0-3-3. Preq., ACCT 413. Intensive study of professional conduct, auditing standards, auditor's liability, reports, and internal auditing, (G)
- 505: Accounting Analysis for Decision-Making. 0-3-3. Preq., ACCT 201 and 202. A study of accounting data and their uses with the goal of aiding management in the use of such data for decision making.
- 506: Seminar in Financial Accounting. 0-3-3. Preq., ACCT 305 A brief historical development of accounting thought followed by investigations into controversial and special areas of financial accounting,
- 507: Contemporary Accounting Theory. 0-3-3. Preq., ACCT 305. An intensive study of recent developments, research and literature in accounting theory promulgated by the various professional accounting associations and related financial organizations.
- 508: Advanced Managerial Accounting. 0-3-3. Prcq., ACCT 308. A study of the role of accounting in supporting the management of organizations.
- 513: Advanced Auditing. 0-3-3. Preq., ACCT 413. Intensive study of professional conduct, auditing standards, auditor's liability, reports, statistical sampling, and internal auditing.
- 517: EDP Accounting. 0-3-3. Preq., ACCT 413. A study of the accounting procedures and systems in a computer-intensive environment, including the proper utilization of computers in auditing the firm.
- 519: International Accounting. 0-3-3. Preq., ACCT 305. A study of the financial and managerial accounting issues and practices related to the globalization of business.
- 521: Cases and Problems in Income Taxes. 0-3-3. Preq., ACCT 307. Research cases covering various phases of income taxes; study of some source materials and research methods for ascertaining current rulings and trends in laws and regulations.
- 542: Seminar in Professional Development. 0-3-3. Preq., ACCT 413. Accounting judgment and decision analysis requiring the integration of knowledge from accounting and accounting related courses; cases address multifaceted accounting issues including professional, ethical, cultural, and other contemporary concerns.
- 550: Directed Study in Accounting, 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of accounting.
- 606: Seminar in Financial Accounting. 0-3-3. Preq., ACCT 305. Requires Doctoral standing. May require additional class meetings. A brief historical development of accounting thought followed by investigations into controversial and special areas of financial accounting. Credit will not be given for ACCT 606 if credit is given for ACCT 506.
- 607: Contemporary Accounting Theory, 0-3-3. Preq., ACCT 305. Requires Doctoral standing. May require additional class meetings. An intensive study of recent developments, research and literature in accounting theory promulgated by the various professional accounting associations and related financial organizations. Credit will not be given for ACCT 607 if credit is given for ACCT 507.
- 608: Advanced Managerial Accounting, 0-3-3. Preq., ACCT 308. Requires Doctoral standing. May require additional class meetings. A study of the role of accounting in supporting the management of organizations. Credit will not be given for ACCT 608 if credit is given for ACCT 508.
- 610: Theory of Accounting Research. 0-3-3 Preq., Doctoral Standing with MPA or equivalent. Accounting research design and methodology from a theoretical perspective and identification of potential behavioral and managerial accounting dissertation topics.

^{*}This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.

- 613: Advanced Auditing. 0-3-3. Preq., ACCT 413. Requires Doctoral standing. May require additional class meetings. Intensive study of professional conduct, auditing standards, auditor's liability, reports, statistical sampling, and internal auditing. Credit will not be given for ACCT 613 if credit is given for ACCT 513.
- 615: Financial Accounting Research. 0-3-3. Preq., Doctoral Standing with MPA or equivalent. A study of capital market research, auditing research, and other financial accounting related topics and identification of financial accounting, auditing, and systems dissertation topics.
- 617: EDP Accounting. 0-3-3. Preq., ACCT 413. Requires Doctoral standing. May require additional class meetings. A study of the accounting procedures and systems in a computer-intensive environment, including the proper utilization of computers in auditing the firm. Credit will not be given for ACCT 617 if credit is given for ACCT 517.
- 619: International Accounting, 0-3-3. Preq., ACCT 305. Requires Doctoral standing. May require additional class meetings. A study of the financial and managerial accounting issues and practices related to the globalization of business. Credit will not be given for ACCT 619 if credit is given for ACCT 519.
- **620:** Accounting Research Applications. 0-3-3. Preq., Doctoral standing with MPA or equivalent. Consideration of basic and applied accounting research with an emphasis on research design and the further development of dissertation topics.
- 621: Cases and Problems in Income Taxes. 0-3-3. Preq., ACCT 307. Requires Doctoral standing. May require additional class meetings. Research cases covering various phases of income taxes; study of some source materials and research methods for ascertaining current rulings and trends in laws and regulations. Credit will not be given for ACCT 621 if credit is given for ACCT 521.
- 642: Seminar in Professional Development. 0-3-3. Preq., ACCT 413. Requires Doctoral standing. Accounting judgment and decision analysis requiring the integration of knowledge from accounting and accounting related courses; cases address multifaceted accounting issues including professional, ethical, cultural, and other contemporary concerns. Credit will not be given for ACCT 642 if credit is given for ACCT 542.
- 650: Directed Study in Accounting. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of accounting.
- 685: Comprehensive Exam in Accounting. No credit. Doctoral standing required. Required for all business administration doctoral students seeking to take the comprehensive exam in accounting. Successful completion is a prerequisite to the oral comprehensive exam for those seeking a primary field or examined minor in accounting. Requires consent of graduate director.

ADMINISTRATION & BUSINESS (AB)

- 110: Introduction to Business. 0-3-3. Preq., CIS 110. A foundations course that emphasizes decision-making and entrepreneurial activities in an everchanging world economy.
- 150: Academic Counseling. 0-1-1. (Pass/Fail). Pre., Consent of instructor. Identification and supervision of students in business needing additional academic counseling.
- 189: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May he repeated for credit
- **194:** Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May be repeated for credit.
- 289: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May be repeated for credit.
- 294: Special Topics. I-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May be repeated for credit.
- 300: Special Problems. 0-3-3. Preq., approval of instructor and department head. Selected contemporary business and economics topics. Topic will determine course admissions criteria.
- 301: Independent Study. 1-3 hours credit. Preq., approval of instructor and department head. Selected contemporary business and economics topics. Normally taken only by CAB students in their curricular specialty.
- 389: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May be repeated for credit.

- 394: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May be repeated for credit.
- **400:** Special Problems. 0-3-3. Preq., Approval of instructor, department head, and dcan. Special contemporary business and economic topics. Topic will determine course admissions criteria.
- 401: Independent Study. 1-3 hours credit. Preq., Approval of instructor, department head, and dean. Selected contemporary business and economic topics in a student's curricular specialty.
- 410: Internship in Business Administration. 3 hours credit. (Pass/Fail). Preq., consent of instructor and senior standing. On-site, supervised, structured work experiences in the field of business.
- 444: Critical Thinking for Business. 0-3-3. An overview of the elements of thinking, reasoning, and questioning as applied to business decisionmaking.
- 489: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May be repeated for credit.
- 494: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Administration and Business. May be repeated for credit.
- **495:** Business Administration Capstone. 0-3-3. Preq., all core business courses and senior standing in the College of Administration & Business. Administrative policy determination through integration and application of knowledge gained in previous courses; emphasizes interrelationships of major functions of business under conditions of uncertainty; utilizes case study approach.
- 551: Research and Thesis. 3 hours credit. Maximum credit allowed is 6 hours.
- 594: Special Topics. 1-4 hours credit. Preq., graduate standing. Scleeted topics in an identified area of study in the College of Administration and Business.
- 610: Current Topics in Rescarch. 0-3-3. May be repeated. Required of resident DBAs each quarter. Non-degree credit. Pass-Fail. Research methodology, current research of doctoral candidates, faculty, invited lecturers.
- 685: Oral Comprehensive Exam. No credit. Doctoral standing required. Required for all business administration doctoral students. Successful completion of the oral comprehensive exam is a prerequisite to beginning the doctoral dissertation. Requires consent of graduate director and advisory committee chair.
- 690: Research and Dissertation, 3 hours credit. Minimum credit allowed is 15 hours.

AGRICULTURAL BUSINESS (AGBU)

- 220: Principles of Agricultural Economics. 0-3-3. Economic theory with application to production, marketing, and financing in agribusiness. Institutions such as cooperatives, farm credit systems, foreign agricultural trade, and government will be emphasized.
- **310:** Agricultural Policy. 0-3-3. The impact of agricultural policy on the farm firm and agribusiness industry. Emphasis is placed on policy issues affecting producers and consumers of agricultural products.
- 402: Economics of Farm Management. 0-3-3. Economics principles applied to individual farm organization and management and study of farm accounting systems. (G)
- **430:** Principles and Practices of Agricultural Marketing. 0-3-3. Methods and channels of agricultural marketing; marketing principles; governmental action concerned with the marketing process; analysis and evaluation of marketing problems. (G)
- 450: Natural Resource Economics. 0-3-3. Tools for economic decisionmaking applied to the use and allocation of natural resources associated with agriculture. Costs and benefits of various approaches to natural resource management.
- 460: Agricultural Finance. 0-3-3. Analysis of financial investments in the agricultural firm, credit sources, debt repayment, capital allocation, and the use of short, intermediate, and long-term credit. (G)

AGRICULTURAL EDUCATION (AGED)

450: Advanced Agricultural Shop Methods and Safety. 3-2-3. Preq., AGSC 209 and 211. Methods and techniques for instruction in agricultural shop safety and power tool use in the high school agricultural shop laboratory. (G)

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*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at <u>http://www.regents.state.la.us/</u> and the school you are transferring to for additional information.

460: Fundamentals of Agricultural Education. 0-3-3. History, traditions, and guidelines of agricultural education. Consideration of federal, state, and local laws and regulations concerning agricultural education and Louisiana's public high schools. (G).

AGRICULTURAL SCIENCE (AGSC)

- 201: Microcomputer Applications. 0-3-3. Introduction to microcomputers with specific applications in filing conventions, word processing, spreadsheets, electronic communications, and other topics.
- 209: Small Engines. 3-0-1. Principles of operation, construction, application, maintenance, and overhaul procedures of small internal comhustion engines.
- 211: General Shop. 6-0-2. Care and use of tools, gas and electric welding, cold metal work, and woodwork.
- 320: Statistical Methods. 0-3-3. Preq., sophomore standing or above. Introduction to descriptive and inferential statistics, probability, sampling distributions, confidence intervals, hypothesis testing, ANOVA, correlation and regression, with an emphasis on biological data and applications.
- **321: Electricity Applied to Bio-Systems.** 3-2-3. Practical application of electricity to farm and forest operations including electric motors, safety, wiring, lighting, refrigeration, and heating.
- **411: Seminar.** 0-1-1. Reviews, reports, and discussion of current problems in agriculture and related fields.
- 477: Cooperative Education Work Experience. 1-9 hours credit. May be repeated for credit. On-site supervised, structured work experiences located within a 100-mile radius of Ruston. Application and supervision fee required. Cannot be taken for credit if student has credit for ENSC 477.
- 478: Cooperative Education Work Experience. 1-9 hours credit. May be repeated for credit. On-site supervised, structured work experiences located within a 101- to 200-mile radius of Ruston. Application and supervision fee required. Cannot be taken for credit if student has credit for ENSC 478.
- 479: Cooperative Education Work Experience. 1-9 hours credit. May be repeated for credit. On-site supervised, structured work experiences located beyond a 201-mile radius of Ruston. Application and supervision fee required. Cannot be taken for credit if student has credit for ENSC 479.
- **516:** Contemporary Topics. 1-6 hours credit (6). Examination and discussion of a variety of timely topics pertaining to the agricultural sciences. May be repeated with a change in subject matter.

AIR FORCE AEROSPACE STUDIES (AFAS)

- 125: Introduction to the U. S. Air Force. (GMC). 0-1-1. Discussion of the Air Force today. Includes topics such as professionalism, communications, and the Air Force installation. Must be taken concurrently with AFAS 155.
- 126: U.S. Air Force Organization (GMC). 0-1-1. Analysis of the organization of the U.S. Air Force with discussion of the various major Air Force commands. Must be taken concurrently with AFAS 156.
- 127: The U.S. Air Force Doctrine (GMC). 0-1-1. Completes the analysis of Air Force organization. Examines Air Force doctrine and relationships with other U.S. military forces. Must be taken concurrently with AFAS 157.
- 155: AFROTC Leadership Laboratory. 1-0-0. Orientation and instruction in Air Force dress and grooming standards and application of Air Force discipline, customs and courtesies. Study of the Armed Forces and AFROTC grade structure, insignia, and chain of command. Introduction to military drill. (Pass/Fail)
- 156: AFROTC Leadership Laboratory. 1-0-0. Continuation in military customs and courtesies and military drill. Familiarization with Air Force services and activities. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)
- 157: AFROTC Leadership Laboratory. 1-0-0. Structure and functions within the cadet corps, wing and base organizations. Additional instruction in military customs, courtesies and drill. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)
- 225: The Development of Air Power I (GMC), 0-1-1. The beginnings of manned flight from balloons and dirigibles, to the Wright Brothers, World War I and the interwar years. Must he taken concurrently with AFAS 255.

- 226: The Development of Air Power II (GMC). 0-1-1. Continuation of 225. A study of air power during World War II, the Berlin Airlift and Korea. Must be taken concurrently with AFAS 256.
- 227: The Development of Air Power III (GMC). 0-1-1. Continuation of 226. A study of U.S. air power in the international arena from 1955 to the present. Must be taken concurrently with AFAS 257.
- 255: AFROTC Leadership Laboratory, 1-0-0. Understanding the Air Force base environment. Application of Air Force standards, discipline, conduct, customs, and courtesies. Advanced drill positions and movements. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)
- 256: AFROTC Leadership Laboratory, 1-0-0. Understanding selected career areas available based on individual qualifications. Advanced drill movements to include review and ceremony procedures. Discussion of privileges and responsibilities associated with an Air Force commission. Physical fitness training. (Pass/Fail)
- 257: AFROTC Leadership Laboratory. 1-0-0. Advanced drill movements to include orientation in commanding a flight, command voice, and use of guidon. Preparation for summer field training. Application of physical fitness regimen to meet weight and fitness standards and conditioning for field training environment. (Pass/Fail)
- 331: Communications for the Air Force (POC). 0-2-2. Functions and formats of Air Force communications. Emphasis on written and oral communications used by junior officers. Must be taken concurrently with AFAS 351.
- 332: Air Force Leadership (POC). 0-2-2. Anatysis of leadership styles and the traits of a leader. Group dynamics. Must be taken concurrently with AFAS 352.
- 333: Military Management (POC). 0-2-2. Study of management principles with emphasis on the view of an Air Force junior officer. Must be taken concurrently with AFAS 353.
- 351: AFROTC Leadership Laboratory, 1-0-0. Attain leadership and management competence through participation in advanced leadership experiences. General structure and progression patterns common to selected officer career fields. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)
- 352: AFROTC Leadership Laboratory, 1-0-0. Continuation of advanced leadership experiences to attain leadership and management competence. Application of procedures for evaluating cadets. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)
- 353: AFROTC Leadership Laboratory, 1-0-0. Continuation of advanced leadership experiences to attain leadership and management competence. Comprehension of special summer training programs available to cadets. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)
- **431:** National Security Policy and Professionalism. (POC). 0-2-2. Examination of the national security policy process and all of the key participants. Military professionalism and officership will also be examined as to their impact on patterns of civil-military relations. Must be taken concurrently with AFAS 451.
- **432: Defense Strategy, Policy and Military Law (POC).** 0-2-2. Examination of the methods of managing conflict to include arms control and the threat of war. The military justice system and professionalism will be covered as topics of special interest. Must be taken concurrently with AFAS 452.
- 433: Regional Studies and Preparation for Active Duty. (POC). 0-2-2. Examination of sensitive areas of the world and their impact on American National Security and what the new officer may expect on his/her initial assignment. Must be taken concurrently with AFAS 453.
- 451: AFROTC Leadership Laboratory. 1-0-0. Application of effective leadership and management techniques with individuals and groups. Comprehension of special education programs available to senior cadets. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)
- 452: AFROTC Leadership Laboratory. 1-0-0. Continuation of the application of effective leadership and management techniques with individuals and groups. Comprehension of Communications and Operations Security programs. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)
- 453: AFROTC Leadership Laboratory. 1-0-0. Continuation of effective leadership and management techniques with individuals and groups. Comprehension of active duty service commitments incurred throughout an officer's career. Understanding factors which facilitate a smooth

transition from civilian to military life. Application of physical fitness regimen to meet weight and fitness standards. (Pass/Fail)

ANIMAL SCIENCE (ANSC)

- 111: Introduction to Animal Science, 0-3-3. Introduction to the field of Animal Science with emphasis on breeds, terminology and basic husbandry practices of dairy and beef cattle, horses, swine, sheep and poultry.
- 113: Introduction to Animal Science Laboratory. 3-0-1. Practical application and study of the different arcas of animal science.
- 201: Introduction to Poultry Science. 3-2-3. The principles and practices of breeding, incubation, nutrition, disease control, management practices and marketing of poultry.
- 202: Introduction to Dairy Science. 3-2-3. Preq., ANSC 111. Principles and practices of breeding, feeding and managing dairy cattle for maximum productivity with an introduction to processing and manufacturing.
- 204: Meat Animal and Carcass Evaluation. 3-2-3. Selection of carcasses and wholesale cuts of heef, pork, and lamb; factors influencing grades, yields, and values in cattle, hogs, and sheep.
- 211: Introduction to Equine Science. 0-3-3. A general survey of principles of horse management and husbandry, to include anatomy, unsoundness, nutrition, health and reproduction.
- 220: Introductory Horsemanship. 3-1-2. Introduction to methods and techniques for controlling and influencing the performance of horses.
- **301:** Principles of Animal Nutrition. 0-3-3. Preq., ANSC 111 and CHEM 100 or 130. The source, chemical composition, and nutritive value of farm animal feedstuffs.
- 302: Testing Dairy Products. 3-2-3. Preq., BISC 214. A chemical and bacterial test of milk and milk products.
- **304:** Dairy Manufacturing-Fluid Milk Products. 3-2-3. The sanitary production, transportation, processing, distribution, and public health inspection of milk and related products.
- **305:** Dairy Manufacturing-Frozen Dessert Production. 3-2-3. The manufacture of ice cream and frozen dairy products.
- **306: Dairy Manufacturing-Cultured Dairy Products.** 6-1-3. Manufacture of butter, various types of cheese, and other cultured products. Defects, packaging, and merchandising of butter and cheese.
- 307: Endocrinology and Milk Secretion. 0-3-3. Development, structure and functional processes of the endocrine and mammary systems.
- 309: Anatomy and Physiology of Animals. 3-2-3. Preq., BISC 130. The structures and functions of the tissues and organs of animals.
- 315: Meats. 6-1-3. Methods and practices involved in the processing and preservation of meats.
- 318: Physiology of Reproduction. 0-2-2. Preq., ANSC 111. Physiology of reproduction of domestic farm animals. Embryology and anatomy of reproductive systems; gametogenesis, fertilization, gestation and parturition.
- 322: Horse Behavior/Training I. 5-1-3. Horse behavior and application of principles of psychology to halter breaking, lead training and grooming weanlings/yearlings; preparation of horse for competition.
- 324: Yearling Foal Management. 8-1-2. Preq., ANSC 111 or 211. Techniques of halter breaking, lead training and grooming weanling/yearling foal using pressure-release behavior modification techniques.
- **330: Intermediate Horsemanship.** 3-1-2. Preq., ANSC 220 or equivalent experience. Intermediate methods and techniques for controlling and influencing the performance of horses.
- **340:** Horse Evaluation. 3-1-2. Preq., ANSC 111 or 211. Detailed evaluation of the horse. Influence of conformation and performance. Use of oral and written defense of judgements.
- 401: Animal Breeding. 0-2-2. Principles and application of animal breeding, including gene frequencies, heritabilities, inbreeding coefficients, selection and mating systems. (G)
- **405:** Applied Animal Nutrition. 3-2-3. Preq., ANSC 301. A review of applied nutritional practices and management, and ration formulation for beef and dairy cattle, horses, swine and poultry. **(G)**
- 407: Dairy Production. 3-3-4. Prcq., ANSC 202. Principles and practices in breeding, feeding and management of dairy cattle.
- **408:** Swine Production. 3-2-3. Principles and practices of breeding, feeding, marketing and management of swine. (G)
- 409: Animal Pathology. 3-2-3. Preq., BISC 214 or 260 and ANSC 307 or 309. The etiology, symptoms, prevention, control and eradication of the major diseases of farm animals. (G)

- 410: Beef Production. 3-2-3. Preq., ANSC 301 or 405. Principles and practices in breeding, feeding, marketing and management of beef cattle.
 (G)
- **411:** Horse Production. 3-3-4. Preq., ANSC 111 or 211, and 318. Principle and practices in hreeding, feeding, and management of horses. (G)
- 418: Assisted Reproduction Techniques. 3-2-3. Preq., ANSC 318. Application of assistive reproductive techniques in animals. Includes semen evaluation, processing, and preservation, artificial insemination, embryo transfer, pregnancy diagnosis, and other management techniques.
 (G)
- 420: Horse Behavior/Training II. 5-1-3. Preq., ANSC 322 or equivalent experience. Horse behavior and application of principles of psychology to ground driving, breaking and training 2- and 3-year old horses; preparation of horses for competition.
- 425: Special Problems in Animal Science. 1-3 hours credit. May be repeated for credit. Preq., Written consent of instructor. Foal management and sale preparation; steer fitting and showing; or topic selected with consent of adviser.
- 430: Dairy Plant Management. 6-1-3. Preq., ANSC 302, 304, 305. The management problems of dairy processing and manufacturing plants.
- 440: Equine and Livestock Operations. 0-3-3. Preq., ANSC 111 or 211. Study of unique aspects of procuring and operating different categories of horse units and relationships of such units to other livestock and farm enterprises. (G)
- 450: Advanced Animal Breeding. 0-3-3. Preq., ANSC 401 or consent of instructor. Advanced Quantitative Genetics principles applied to horses and livestock. Emphasis on theory and application of variance, selection, inbreeding and crossbreeding, scale, threshold and correlated characters.
 (G)
- **460:** Advanced Horsemanship. 3-1-2. Preq. ANSC 330 or equivalent experience. Advanced methods and techniques for controlling and influencing the performance of horses.
- 470: Veterinary Techniques. 4-2-3. Preq., ANSC 309, 409, or special permission. Applications of veterinary diagnostic, therapeutic, and prophylactic techniques used in control of animal diseases. (G)

APPLIED & NATURAL SCIENCES (ANS)

- 189: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.
- 194: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.
- 289: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.
- 294: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.
- 389: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.
- **394: Special Topics:** 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.
- 489: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.
- 494: Special Topics: 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.
- 589: Special Topics: 1-4 hours credit. Preq., Graduate standing. Selected topics in an identified area of study in the College of Applied & Natural Sciences.
- **594:** Special Topics: 1-4 hours credit. Preq., Graduate standing. Selected topics in an identified area of study in the College of Applied and Natural Sciences.

ARCHAEOLOGY (ARCE)

- 401: Introduction to Archaeology. 4-2-3. An introduction to the techniques of research and field work in Archaeology. (G)
- **410:** Selected Topics in Archaeology, 0-3-3 (6). Seminar in archaeology with topic designated by instructor. May be repeated for credit as topic changes.(G)
- 420: Indians of the Southwest. 4-2-3. A survey of Indian Archaeology in the southwestern United States. (G)
- **462:** Christian Archaeology. 3-2-3. Preq., HIST 101 or consent of instructor or junior standing. A study of the archaeology, architecture, and inscription in early Christian sites in and nearby Rome. **(G)**

^{*}This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.

- 463: Etruscan Archaeology. 3-2-3. Preq., HIST 101 or consent of the instructor or junior standing. A study of the art, architecture, archaeology, history and inscriptions of the Etruscans. (G)
- 464: Roman Archaeology. 3-2-3. Preq., HIST 101 (or equivalent). A study of the monuments and antiquities of Classical Rome. (G)
- 466: Egyptian Archaeology. 3-2-3. Preq., HIST 101. The study of the archaeology, art, architecture, history, and inscriptions of the ancient Egyptians. (G)

ARCHITECTURE (ARCH)

- 110: Foundation Design I. 6-0-2. Empirical studies of the principles and processes related to the poetic and tectonic aspects of making architectural form.
- 112: Communication Skills I. 6-0-2. An introduction to the principles and techniques of visualization and representation drawing.
- 120: Foundation Design II. 6-0-2. Preq., ARCH 110. Continuation of ARCH 110. Empirical studies of the principles and processes related to the poetic and tectonic aspects of making architectural form.
- 130: Foundation Design III. 6-0-2. Preq., ARCH 120. Culmination of a three-course sequence studying the principles and processes related to the poetic and tectonic aspects of making architectural form.
- 131: Architectural Theory. 0-2-2. An examination of architecture as a language system, involving the investigation of its basic vocabulary and grammar and their development and refinement in the history of architecture.
- 132: Communication Skills II. 6-0-2. Preq., ARCH 112. Continuation of ARCH 112. Continuing introduction and application of the principles and techniques of visualization and representation.
- 200: Issue Investigation. 0-1-1. A synoptic examination of the principles of site analysis and planning as related to building.
- 210: Foundation Design IV. 6-0-2. Preq., ARCH 130, 131, and 132. Exploratory studies of strategies for combining and composing the fundamental elements of architecture.
- 211: Architectural History. 0-2-2. An examination of the classical language of architecture with specific reference to the contributions of the social, cultural, intellectual, technological contexts to its development
- 220: Foundation Design V. 6-0-2. Preq., ARCH 210. A continuation of ARCH 210 emphasizing the influences of contextual, functional, and ideological constraints on the combination and composition of the fundamental elements of architecture.
- 221: Building Systems I. 0-3-3. Introduction to the concepts, principles, and conventions associated with a building's structural and envelope systems.
- 222: Architectural History. 0-2-2. Preq., ARCH 211. An examination of the modern language of architecture with specific reference to the social, cultural, intellectual, and technological contexts to its developments.
- 230: Foundation Design VI. 6-0-2. Preq., ARCH 220. A culmination of a three- course sequence exploring strategies and constraints related to combining and composing the fundamental elements of architecture.
- 231: Contemporary Architectural History, 0-2-2. Preq., ARCH 222. An examination of the various movements that have emerged since 1960 with reference to the social, cultural, intellectual, and technological contexts that fostered their developments.
- 232: Building Systems II. 0-3-3. Study of environmental and physical systems' impact on building envelope and interior space design emphasizing passive energy techniques, daylight, electrical lighting and acoustics.
- 300: Introduction to Building, Accessibility, and Life Safety Codes. 0-1-1. A synoptic examination of model building codes, Americans with Disabilities Act, and Life Safety Code as they influence the internal logic of buildings.
- 301: Computer Applications Colloquium, 0-2-2. Introduction to software applications that facilitate communications, design, drafting, modeling and research in the discipline of architecture.
- 310: Architectural Design I. 9-0-3. Prcq., ARCH 230. Examination of theoretical issues and historical antecedents through diagrammatic studies and analysis of organizational strategies with an emphasis on masonry construction and its supporting technologies.
- 311: Built Form and Behavior. 0-2-2. A critical analysis of the psychological, social and cultural factors that are manifest in and influenced by architectural form.
- 320: Architectural Design II, 9-0-3. Preq., ARCH 310 and 474. Examination of the relationship hetween architecture and its physical context with emphasis on site analysis, design methodology, light frame construction, and passive/sustainable systems.

- 321: Architectural History Seminar. 0-2-2 (6). Preq., ARCH 231. Examination and investigation of selected topics associated with architectural history and theory.
- 331: Theories of Architecture. 0-2-2. Prcq., ARCH 231. A study and evaluation of the architectural profession, its intentions, and its cultural relevance.
- 332: Building Systems III. 0-3-3. A study of service systems' impact on building envelope and interior spaces emphasizing plumbing, mechanical, electrical, and vertical transportation systems.
- 350: Visual Studies. 9-0-3-(6). Studies of the art and craft of building through the design and fabrication of architectonic objects.
- 380: Applied Studio Practices. 6-0-2 (4). Practical problems in graphic and visual communications,
- 400: Studio Problems. 6-0-2 (4). Specialized studio problems in aqueous media on paper.
- 402: Field Travel. 0-1-1 (3). The examination and analysis of contemporary architectural works and urban environments through participation in supervised travel.
- 403: Project Documentation, 9-0-3 (6). Preq., ARCH 474. The full documentation of a project of historic or architectural significance in Historic American Buildings Survey format.
- 407: Computerized Construction Documentation. 0-2-2. Preq., ARCH 474. Development of architecture details, systems, and techniques in the preparation of contract documents.
- 410: Architectural Design III. 9-0-3. Preq., ARCH 320. Examination of site selection and program definition within varying contexts through schematic design studies emphasizing steel or concrete structural systems and active mechanical/electrical systems.
- 411: Planning and Urban Design Theory. 0-2-2. An examination of the process of design and change in urban environments, with discussion of strategies and processes for intervening in the development of these environments.
- 417: Internship in Architecture. 20-0-4 (8). Preq., Senior Standing. Supervised experience in the office of a registered architect, interior designer, engincer or landscape architect. A minimum of 20 hours per week. (Pass/Fail).
- 420: Architectural Design IV. 9-0-3. Preq., ARCH 410. Examination of the relationship between architecture and the public realm through detailed design and development emphasizing the integration of structural material and building system technologies.
- 421: Building Systems IV. 0-3-3. Study of the principles of structural behavior and varied building material assemblies through technical documentation.
- 431: Architectural Seminar I. 0-2-2 (6). Examination and investigation of selected topics associated with the internal logic of buildings: codes, building systems, construction materials, and assemblies.
- 436: Written Contract Documents. 0-2-2. Preq., Senior standing. Construction specification writing principles using the CSI format and procedures.
- 445: Professional Problems. A(4 1/2-0-1); B(9 1/2-0-2); C(13 3/4-0-3). Individual study with variable credit of selected professional problems having educational significance. Topic and credit by agreement with the Department Head.
- 450: Related Readings. A(4 1/2-0-1); B(9 1/2-0-2); C(13 3/4-0-3). Guided readings in a specific aspect of architectural theory or practice under the supervision of a faculty member. Credit and topic by agreement with the Department Head.
- 471: Professional Practice I. 0-2-2. Architect's role and responsibility in the project process of predesign, design, construction documents, and the administration of the construction contract.
- 472: Architectural Seminar II. 0-2-2 (6). Examination and investigation of selected topics associated with the practice of architecture: ethics, management, marketing, services, and finances.
- 473: Design Research. 0-2-2. A study of research method for the architect including the execution of scholarly research and programming as related to the degree design project.
- 474: Computers for Designers. 0-2-2. Development of fundamental skills in software applications associated with architectural production and project delivery.
- 480: Degree Design Project I. 12-0-4. Preq., ARCH 473. Initiation of the degree design project through multiple schematic design iterations that reconcile and resolve contextual, formal, functional, and ideological issues.

- **481: Professional Practice II.** 0-2-2. Preq., ARCH 471. The business of architecture with a emphasis on practice trends of the future in respect to project and design management.
- **482:** Architectural Programming. 0-2-2. Advanced techniques of research, analysis and programming through which the effect of pre-design issues and constraints are examined.
- **490: Degree Design Project II.** 12-0-4. Preq., ARCH 480. A continuation of ARCH 480 emphasizing the detailed design development of the previously resolved schematic design.
- **491: Professional Practice III.** 0-2-2. Preq., ARCH 481. The legal, ethical and moral issues of architectural practice as related to the changing professional context.
- 556: Problems. 12-2-6. Preq., fifth year classification in Architecture. Special projects in architecture and landscape. Department Head must approve projects.
- 559: Specialized Individual Studio Problems. 6-1-3-(9). Permission and project approval must be obtained from Department Head.

ART (ART)

- 115: Design. 6-1-3. Formal problems of the theory and practice in the elements and principles of design.
- 116: Color Design. 6-1-3. Preq., ART 115 or ARCH 110. The study of color and the interaction of color in design.
- 117: Conceptual Design. 6-1-3. Preq., ART 116. A materials and techniques course with the emphasis on experimental investigations which combines both traditional and contemporary approaches.
- 118: 3-D Design. 6-1-3. Preq., ART 115. Problems in three-dimensional design and increased emphasis on the development of individual ideas through various materials such as clay, plaster, fiberglass, wood, and plastics.
- 119. Introduction to Graphic Design Software. 6-1-3. Preq., ART 115 and 116. Survey of the fundamentals of using graphics-creating software. Students will gain a working knowledge of the applications of specific software programs through design assignments.
- 125: Drawing. 6-1-3. A study of the principles underlying all creative and representation drawing.
- 126: Drawing. 6-1-3. Preq., ART 125. A continuation of ART 125.
- 160: Introduction to Graphic Design. 6-1-3. Preq., ART 116 and 126. An Introduction to the methods, processes, and principles of graphic design.
- 170: Introduction to Photography. 6-1-3. An introduction to the photographic medium through an exploration of basic tools, techniques, and aesthetics of 35mm black and white photography.
- 173: Intermediate Photographic Practices. 6-1-3. Preq., ART 170. Advanced black and white techniques covering exposure, development, and printing of small format negatives, with special emphasis on the use of the Zone System.
- 202: Woodshop Orientation. 3-0-1. A familiarization course for students, preparatory to their use of the woodshop. The course will be a hands-on introduction to all the equipment available for student use.
- 205: Introduction to Digital Photography. 6-1-3. Preq., ART 116, 173. Introduction to the basic functions of digital cameras and software for image manipulation. For Photography majors only.
- 220: Painting. 6-1-3. Preq., ART 116 and 126. Creative approach to the problems in painting with emphasis on observation and representation.
- 221: Painting. 6-1-3. Preq., ART 220 and 225. Creative approach to the problems in painting with emphasis on the human figure.
- 225: Drawing, 6-1-3. Preq., ART 125 and 126. The study of human anatomy as related to problems of art.
- 228-229: Figure Drawing, 6-1-3 cach. Preq., ART 125 and 126. Drawing in media from models.
- 240: Ceramics. 6-1-3. Introductory course on methods of ceramic construction with emphasis on the creative aspects of pottery.
- 241: Ceramics. 6-1-3. Emphasis on the use of the potter's wheel.
- 260: Intermediate Graphic Design. 6-1-3. Preq., ART 160. Studio projects emphasizing problem-solving and introducing use of computers in layout/imaging. Includes a pass/fail portfolio requirement for entry into the major. A specific laptop computer is required for this course.
- 261: Production. 6-1-3. Preq., ART 160. Introduction to the techniques and technology involved in preparing graphic design projects for printing.
- 262: Layout. 6-1-3. Preq., ART 260. Studio projects exploring contemporary graphic design formats and techniques. Utilization of the creative process in problem solving is emphasized.

- 263: Illustration. 6-I-3. Preq., ART 260. Exploration of the media and techniques of contemporary illustration. Emphasis also on creative problem solving.
- 266: History of Art I. 0-3-3. A survey of the painting, sculpture, architecture, and minor arts of ancient and medieval societies. Statewide Transfer Agreement Course*.
- 267: History of Art II. 0-3-3. Preq., ART 266. A survey of the painting, sculpture, architecture, and minor arts from the Renaissance to the present. Statewide Transfer Agreement Course*.
- 270: Concepts of Photographic Imagery, 6-1-3. Preq., ART 173. An introduction to the many facets of contemporary photography from
- documentary to conceptual. An overview of approaches to problem solving with the camera.
- 271: Alternative Photographic Processes. 6-1-3. Preq., ART 173. Alternative processes associated with the photographic medium. Creative approach to various techniques involving ortho films, toning, liquid emulsions, pinhole cameras, and hand-coloring applications.
- 290: Art Appreciation. 0-3-3. Study and enjoyment of art in its various expressions. Principles for critical judgment. Art in dress, the home, furniture, textiles, pottery, painting, graphic arts, and civic art. (non-art majors only). Statewide Transfer Agreement Course*.
- 301: Appreciation and Application of Elementary Art Structure. 0-3-3. Preq., consent of instructor. Theory and practice using the principles of design as basis for appreciation of the visual arts.
- **320:** Painting, 6-1-3. Preq., ART 221. Creative approach to the problems in painting with emphasis on experimentation in various media, subjects, and techniques.
- 321: Painting, 6-1-3. Continuation of ART 320.
- 331: Introduction to Printmaking. 6-1-3. Preq., ART 116 and 126. A basic survey of printing techniques in linoleum cut, wood cut, collograph, dry point, etching and lithography.
- 346: Ceramics, 6-1-3. Preq., ART 240 and 241. An Advanced course in ceramic design and construction with the introduction to the construction and use of ceramic kilns.
- 347: Ceramics. 6-1-3. Preq., ART 346. A continuation of ART 346.
- 360: Typography. 6-1-3. Preq., ART 262. Emphasis on problems in typography with special uses of the computer.
- 361: Art Direction. 6-1-3. Preq., ART 261, 262, and 263. Advanced studio projects emphasizing problem-solving within a creative team and utilizing multiple design and imaging media and techniques.
- 362: Computer Graphics. 6-1-3 (9). Preq., ART 260. Exploration of the uses of contemporary computer software and hardware for the creation of graphic design projects.
- 363: Ad Campaign. 6-1-3. Preq., ART 261, 262. Advanced studio projects exploring advertising graphic design and utilizing contemporary advertising media formats.
- 372: Studio Photography. 6-1-3. Preq., ART 173. Problems in controlled lighting for portraiture, figure, fashion, product, and introduction to view camera operation.
- 373: Commercial Photography. 6-1-3. Preq., ART 372. An introduction to commercial applications of photography. Large format camera operation is studied with assignments covering a wide range of topics from Architecture to Fashion.
- 374: Commercial Portfolio. 6-1-3. Preq., ART 373. A concentrated study in one area of interest and production of a portfolio suitable for presentation. Large format color will be used extensively.
- **390:** Sculpture, 6-1-3-(9). Preq., ART 118. Investigations in sculptural processes, materials, and techniques.
- 391: Sculpture. 6-1-3-(9). Preq., ART 118. Creative approach to problems in metal casting, fabrication, welding, mold technology, and foundry procedures.
- 415: Studio Problems. 6-1-3 (9). Preq., Permission of instructor. Advanced problems in design. (G)
- 420: Studio Problems. 6-1-3-(9). Preq., ART 320. Advanced problems in painting. (G)
- 427: Advanced Drawing, 6-1-3-(9). Preq., ART 228. Interpretive approach to drawing. (G)
- 430: Studio Problems. 6-1-3-(9). Preq., ART 331. Advanced problems in printmaking. (G)
- 440: Studio Problems. 6-1-3 (9). Preq., ART 347. An elective course in advanced crafts. (G)
- **459: Women and the Arts.** 0-3-3. Preq., ART 267. Survey of women's involvement with the visual arts. Major emphasis upon anonymous "female" crafts and leading women artists, 1600 to present. (G)

- **460:** Monuments of Non-Western Art. 0-3-3. Survey of monuments of architecture, sculpture, painting, etc. from the most glorious epochs of selected Asian, African, Pre-Columbian, and Oceanic cultures. **(G)**
- 461: American Art, 1929-1990. 0-3-3. Prcq., ART 267. Survey of major monuments, artists, styles, and changes in modern American art. (G)
- 462: History of Graphic Design. 0-3-3. Preq., ART 260. Survey of the history of Graphic Design and its influence on today's practice of the profession. (G)
- **463: Portfolio I.** 6-1-3. Preq., ART 260. Advanced projects for the professional graphic design portfolio. (G)
- 464: Computer Graphics for Portfolio. 6-1-3 (6). Preq., ART 362. Advanced uses of contemporary computer hardware and software for the creation of the graphic design portfolio. (G)
- 465: American Art in the Age of Expansion, 1865-1893. 0-3-3. Preq., ART 267. A survey of leading artists, styles, movements and changing attitudes about art. It stresses socioeconomic aspects of art making and patronage.
 (G)
- 466: History of Modern Art. 0-3-3. Preq., ART 267. Historical and critical appraisal of art in the 19th and 20th conturies. (G)
- 467: History of the Arts. 0-3-3. A survey of the arts: furniture; weaving and textiles; tools and weapons; ornament, both domestic and personal; artifacts of daily life such as painting, sculpture, etc.
- **468:** History of American Art. 0-3-3. Preq., ART 267. Historical and critical appraisal of art in America from the colonial era to the present. (G)
- 469: History of Italian Art. 0-3-3. Prcq., ART 266. A survey and analysis of the painting, sculpture, and architecture produced in Italy between 1260 and 1600. (G)
- 471: Studio Problems in Graphic Design. 6-1-3 (9). Preq., ART 260.
 Advanced projects in graphic design for the professional portfolio, emphasizing concentration in techniques and problem-solving projects.
 (G)
- 472: History and Aesthetics of Photography. 0-3-3. A survey of the photographic image from 1839 to the present, with special emphasis on the development of photographic sceing. (G)
- 473: Image Manipulation with Computers for Artists. 6-1-3-(9). Preq., ART 115, 116, and 125. The use of software and computers in digital imagery using photographic resources. Criticism of individual projects and group discussions. (G)
- 474: Senior Exhibition. 6-1-3 (9). Senior Standing. One quarter prior to graduation the student must present an exhibition of sufficient quality to warrant exiting the program.
- 475: Senior Portfolio. 6-1-3. Preq., ART 463 and 464, taken only in the quarter of graduation. Preparation of the professional graphic design portfolio and resume. Course culminates in graded exhibition. Samples of portfolio work for departmental archives are required.
- **490:** Sculpture. 6-1-3-(9). Preq., ART 390 or 391. Creative approach to the problems in sculpture with individually directed experiments in the various sculptural processes. (G)
- **499:** Issues in the Arts. 0-3-3. A seminar for undergraduate senior and graduate students in the arts. This course will cover verbal and written interchange of ideas and issues in the arts. Seniors and graduate students only. (G)
- 510: Graduate Design. 6-1-3-(6). Studio work varying with the student's project, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 511: Graduate Design. 6-1-3-(6). Studio work varying with the student's project, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 512: Graduate Design. 6-1-3-(6). Studio work varying with the student's project, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 513: Master's Project. 6-1-3-(6). Original, independent studio work approved hy the Art Graduate Committee as appropriate for presentation as a one-man exhibition of final project, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- **514:** Master's Project. 6-1-3-(6). Original, independent studio work approved by the Art Graduate Committee as appropriate for presentation as a one-man exhibition of final project, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 515: Master's Project. 6-1-3-(6). Original, independent studio work approved by the Art Graduate Committee as appropriate for presentation as a one-man exhibition of final project, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

- 520: Advanced Studio Problems. 6-1-3-(6). Projects, plus inclusion of the collective graduate seminar in Fall and Winter Quarters
- 521: Advanced Studio Problems. 6-1-3-(6). Projects, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 522: Advanced Studio Problems. 6-1-3-(6). Projects, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 540: Advanced Crafts. 6-1-3-(6). Studio work involving the design and construction of two-dimensional and three-dimensional problems. Choice of media with consent of Art Graduate Committee, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 541: Advanced Crafts. 6-1-3-(6). Studio work involving the design and construction of two-dimensional and three-dimensional problems. Choice of media with consent of Art Graduate Committee, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 542: Advanced Crafts. 6-1-3-(6). Studio work involving the design and construction of two-dimensional and three-dimensional problems. Choice of media with consent of Art Graduate Committee, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 550: Photographic Projects. 6-1-3-(9). Advanced photographic project in field of special interest, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 564: Graduate Seminar. 6-1-3. Guided study, discussion, and reading in art related to college level teaching.
- 565: Art History. 6-1-3-(6). Guided and/or independent research related to the History of Art.
- 566: Art History. 6-1-3-(6). Guided and/or independent research related to contemporary developments in art.
- 567: Graduate Exhibition. 6-1-3-(6). Preparation for and installation of graduate exhibition, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 570: Photographic Projects. 6-1-3-(9). Advanced photographic concepts and techniques. Practical and expressive application of photographic processes to the applied and fine arts, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 571: Photographic Seminar. 6-1-3. Research paper with supportive audio slide presentation.
- 572: Portfolio. 6-1-3-(9). Preparation of a portfolio, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 573: Photographic Exhibition. 6-1-3. Preparation of an exhibit, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 574: Directed Projects in Graphic Design & Digital Imaging. 6-1-3 (9). Design project assigned by the Art Graduate Committee. Emphasis on development of practical experience in designer-client relationships and the use of advanced digital design technology to create and disseminate project work, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 575: Directed Projects in Graphic Design & Digital Imaging. 6-1-3 (9). Design project assigned by the Art Graduate Committee. Emphasis on development of practical experience in designer-elient relationships and the use of advanced digital design technology to create and disseminate project work, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 576: Directed Projects in Graphic Design & Digital Imaging. 6-1-3 (9). Design project assigned by the Art Graduate Committee. Emphasis on development of practical experience in designer-client relationships and the use of advanced digital design technology to create and disseminate project work, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 577: Directed Research in Graphic Design & Digital Imaging, 6-1-3 (9). Research project developed by student with the Art Graduate Committee. Emphasis on advanced application of abilities pertinent to contemporary graphic design such as use of digital design technology, expertise in traditional media imaging, and the creation of visual communications for corporations, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.
- 578: Directed Research in Graphic Design & Digital Imaging, 6-1-3 (9). Research project developed hy student with the Art Graduate Committee. Emphasis on advanced application of abilities pertinent to contemporary graphic design such as use of digital design technology, expertise in traditional media imaging, and the creation of visual communications for corporations, plus inclusion of the collective graduate seminar in Fall and Winter Quarters.

- 579: Graduate Seminar in Graphic Design Education. 0-3-3 (6). Discussion and guided research concerning college classroom and computer laboratory instruction in graphic design education.
- 580: Master's Thesis & Exhibition in Graphic Design. 0-3-3. Preparation of a thesis paper for submission to the Art Graduate Committee and a public exhibition of thesis visual works in graphic design.

BIOLOGICAL SCIENCES (BISC)

- 101: Fundamentals of Biology I. 0-3-3. Introduction to biological concepts of cell structure and physiology, genetics, evolution, and ecology. Statewide Transfer Agreement Course*.
- 102: Fundamentals of Biology II. 0-3-3. Preq., BISC 101. Continuation of biological topics including origin of life, survey of the five kingdoms, plant and animal structure. Statewide Transfer Agreement Course*.
- 130: Biological Principles. 0-3-3. Coreq., BISC 131. Designed for students majoring in science. Introduction to biomolecules, cells, metabolism, genetics, evolution, and ecology.
- 131: Biological Principles Laboratory. 3-0-1. Coreq., BISC 130. Studentoriented experiments and demonstrations emphasizing biomolecules, cells, metabolism, genetics, evolution, and ecology.
- 132: Biological Diversity. 0-3-3. Preq., BISC 130; Coreq., BISC 133. An introduction to the classification, anatomy, and physiology of prokaryotes and eukaryotes.
- 133: Biological Diversity Laboratory. 3-0-1. Coreq., BISC 132. Investigations of the classification, anatomy, and physiology of prokaryotes and eukaryotes.
- 134: Botany, 0-3-3. Introduction to botany, including the biology of plants, fungi, bacteria, and viruses.
- 150: Phlebotomy. 0-2-2. Principles of specimen collection, techniques, and processing with emphasis on related issues of patient relations, medical terminology, anatomy and physiology, quality assurance, safety and compliance.
- 151. Phlebotomy Laboratory. 10-0-2. Preq. or Coreq., BISC 150. A laboratory to accompany BISC 150. Instruction and practicum concerning specimen collection techniques of both routine and special considerations.
- 199: The Biology Connection. 0-1-1. (Pass/Fail). Designed to inform sophomore biology majors about advanced study techniques, resume and portfolio construction, research opportunities, standardized test taking, application procedures, and post-graduate studies.
- 200: Principles of Genetics. 0-3-3. Fundamental laws of heredity as applied to plants, animals, and humans.
- 201: Scientific Principles. 0-3-3. A general course embracing the principles of the biological and physical sciences, incorporating teacher demonstration and laboratory activities.
- 205: Plant Anatomy, 3-2-3. Preq., BISC 132, 133. A comparative study and interpretation of the internal structure of vascular plants.
- 211: Introduction to Environmental Sciences. 0-3-3. Basic laws, principles, and issues related to causes, effects, and controls of environmental problems including human-environment interactions. Credit will not be given for BISC 211 if credit is given for ENSC 211.
- 212: Conservation and Management of Natural Resources. 0-3-3. An introduction to the management of renewable resources including the use, conservation, and sustainability of these resources. Credit will not be given for BISC 212 if credit is given for ENSC 212.
- 214: Survey of Microbiology, 4-3-4. Fundamental concepts of microbiology, emphasizing techniques and laboratory procedures used in medically related studies.
- 216: Plant Biology. 0-3-3. Preq., BISC 130, 131. Introduction to the biology of plants including growth, morphology, physiology, genetics, diversity, and propagation.
- **217: Plant Biology Laboratory.** 3-0-1. Preq. or Coreq., BISC 216. Exploration and application of plant biology concepts and processes.
- 221: Taxonomy and Morphology of Vascular Plants I. 3-2-3. Preq., BISC 132, 133. Survey of plant morphology, classification, identification, and field techniques. Includes a survey of common families in the SE USA.
- 222: Taxonomy and Morphology of Vascular Plants II. 3-2-3. Preq., BISC 221. Survey of taxonomy to include a local project. Additional common vascular plant families and identification of plants in winter condition will also be included.
- 224: Human Anatomy and Physiology. 0-3-3. Preq., Consult with your advisor. The structure and functions of the organ systems of the human body, including anatomy of the vocal and hearing mechanisms.
- 225: Human Anatomy and Physiology. 0-3-3. Preq., Consult with your advisor. Introduction to human anatomy and physiology including

structure and function of cells, tissues, organs and the integumentary, skeletal, muscular, and nervous systems.

- 226: Anatomy and Physiology Laboratory. 3-0-1. Preq., BISC 225, or concurrent enrollment. Specially designed exercises permitting students to observe the physiology and anatomy of mammals.
- 227: Human Anatomy and Physiology. 0-3-3. Preq., BISC 225 or equivalent. A continuation of 225. Including structure and function of circulatory, respiratory, digestive, excretory, endocrine and reproductive systems.
- 228: Anatomy and Physiology Laboratory. 3-0-1. Preq., BISC 227, or concurrent enrollment. Additional laboratory exercises to illustrate the anatomy and physiology of animals.
- 242: Histological Sectioning. 8 1/2-0-2. Preq., 8 semester credits of BISC. Methods of preparing tissues for microscopic examination.
- 246: Instrumentation. 4-2-3. Preq., 8 semester hours of biological or chemical sciences. Emphasizes laboratory safety and the operational theory, use, and maintenance of instruments appropriate to biological, environmental, and medical investigations. Credit will not be given for BISC 246 if credit is given for ENSC 246.
- 250: Introduction to Clinical Laboratory Sciences. 4-1-2. Introduction to the curriculum and profession including computer utilization in problem solving, professional awareness, pre-clinical/clinical articulations, and information sources in medical technologies.
- 260: Microbiology, 4-3-4. Preq., CHEM 100, 101; BISC 130, 131. Designed for students majoring in science. Course will cover topics in clinical, applied, environmental, and eukaryotic microbiology. Statewide Transfer Agreement Course*.
- 262: Bacterial Identification Methods and Applications. 0-3-3. Preq., BISC 260. Course covers principles of physical, biochemical, and molecular methods in identifying bacteria.
- 275: Aquatic Bioassays. 0-1-1. Internet-based course centering on governmental regulations concerning bioassays to test for toxicity in waste effluents released into natural waters in the United States. Credit will not be given for BISC 275 if credit is given for ENSC 275.
- 284: Introduction to Marine Science. 8-3-4. Preq., BISC 132, 133. Introduction to chemical, geological, and biological processes in the oceans and coastal environments; interrelationships of humans and the marine environment. Five weeks spent at the Louisiana Universities Marine Consortium Coastal Laboratory.
- 285: Introduction to Marine Zoology. 8-3-4. Preq., BISC 132, 133. Survey of marine animals, particularly those of the Louisiana Gulf Coast, including classification, morphology, physiology, and ecology. Five weeks at the Louisiana Marine Consortium Coastal Laboratory.
- **290:** Comparative Anatomy of Vertebrates. 8 1/2-2-4. Preq., BISC 132, 133. Comparative anatomy and evolution of the vertebrates.
- 301: Essentials of Exercise Physiology. 0-1-1. This on-line course will survey the central concepts of human exercise with regard to both theory and applications of fitness and performance.
- **310: Genetics:** 4 1/4-2-3. Preq., BISC 132, 133. Principles of inheritance in plants and animals at the biochemical, cellular, organismal, and population levels.
- **313:** Ecology. 4 1/4-2-3. Preq., BISC 132, 133. An overview of the interactions of plants, animals, and non-living factors as they influence individuals, populations, communities, and ecosystems. Credit will not be given for BISC 313 if credit is given for ENSC 313.
- **315:** Cell Biology. 0-3-3. Preq., BISC 132, 133. Detailed study of the structural and functional organization of the cell and the interactions of the organelles with respect to metabolism and heredity.
- 317: Wildlife Management Principles. 4 1/4-2-3. Preq., BISC 132, 133, and computer literacy. A review of the techniques used in the identification, study, and management of wildlife and their habitat.
- 320: Animal Physiology. 0-3-3. Preq., BISC 132, 133. (BISC 290 strongly recommended). A general and comparative approach to the principles and concepts of physiology which apply to animal systems.
- 321: Animal Physiology Laboratory. 4-0-1. Laboratory studies in animal physiology.
- 335: Microbial Physiology. 3-2-3. Preq., BISC 260 and CHEM 250. Basic biochemical and physiological activities of microorganisms.
- **341:** Hematology, 4 1/2-2-3. 8 semester credits of BISC. Quantitative and qualitative methods for determining the condition of cellular blood and a study of its histology, morphology and physiology.
- 343: Medical Microbiology and Immunology. 4-3-4. Lecture and laboratory exposure to principles of pathogenic bacteriology, immunology, virology, mycology, and parasitology with a diagnostic emphasis.

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- 344: Clinical Chemistry and Toxicology. 4-3-4. Preq., CHEM 104. Study of the pathological and biochemical significance of analytes and toxic substances found in human body fluids, including methods of analysis and quality assurance.
- 346: Medical X-Ray Technology, 3-1-2. Preq., BISC 130. Methods of obtaining routine radiographs, stressing proper positions and darkroom techniques.
- 360: Biological Problems. 1 3 hour(s) credit (6). Preq., Junior standing and written permission of instructor. An introduction to the principles of research.
- **361:** Laboratory Assisting. 1-3 hour(s) credit (3). Preq., Junior standing and written permission of instructor. Experience in biological science laboratory assisting in student instruction and practice.
- **401:** Parasitology. 3-2-3. Preq., BISC 132, 133. Protozoan and helminthic parasites of medical and veterinary importance to humans with emphasis on morphology, life cycles, pathogenesis, diagnosis, and control.
- 402: Immunology. 0-3-3. Preq., BISC 260. A study of antigens and antibodies including the chemical basis of antigen-antibody specificity, mechanisms of hypersensitivity, immunological modulators, and immunological diseases.
- 404: Immunology Laboratory. 3-0-1. Preq. or Coreq., BISC 402. Laboratory exercises in immunology to include precipitation, agglutination procedures, isotopic and nonisotopic immunoassays, reagent preparation and validation.
- 405: Plant Physiology. 3-2-3. Preq., BISC 132, 133, CHEM 102 or 121. Study of life processes and functions of plants.
- 407: Histology, 8 1/2-1-3. Preq., BISC 320, 321, or equivalent. Microscopic study of animal tissues with emphasis on functional and structural interrelationships.
- 408: Bacterial Genetics. 3-2-3. Prog., BISC 260, 310. Topics include nucleic acid effectors in prokaryotes, mutations, phage genetics, and molecular methods of studying gene structure/function.
- 409: Virology. 3-2-3. Preq., CHEM 250. Viruses and their relationship to disease in plants, animals, and bacteria.
- **410:** Advanced Genetics. 4 1/4-2-3. Preq., BISC 310 or consent of the instructor. Principles and methods for analyzing biochemical and chromosomal polymorphisms, metabolic pathways, pedigrees, and population differentiation with emphasis on humans.
- 411: Developmental Biology. 6-2-3. Preq., BISC 132, 133. A study of gametogenesis, fertilization, and the embryological development of organisms using descriptive and experimental approaches.
- 412: Environmental Plant Physiology. 0-3-3. Preq., BISC 132 or equivalent. Study of the plant's response to the biotic and abiotic environment. Topics include the plant environment, phytoremediation, and the physiology of plant stress.
- 413: Advanced Ecology. 0-3-3. Preq., BISC 313 or FOR 301. An in-depth study of the interactions of the plant and animal communities with their environments.
- 414: Entomology, 3-2-3. Preq., BISC 101, or 102, or 130. Study of insect structure, classification, life cycles, and control practices, with emphasis on economic pests.
- 419: Plant Pathology. 3-2-3. Preq., BISC 132, 133. A study of plant diseases and disorders.
- 420: Environmental Animal Physiology. 0-3-3. Preq., BISC 320. Functional adaptations of animals to their environments, with emphasis on vertebrates.
- 421: Mycology, 4 1/4-2-3. Preq., BISC 132, 133. A survey of the Kingdom Fungi with emphasis on Ascomycete and Basidiomycete anatomy, morphology, and field identification.
- 422: Molecular Biology. 0-3-3. Preq., BISC 310. Emphasis on eukaryotic DNA, RNA structures, mechanisms of replication, transcription, translation, regulation, and control of gene expression.
- 424: Medical Mycology. 0-2-2. Preq., BISC 132, 133. A study of yeast, molds, and other fungi pathogenic to humans and animals.
- **426:** Evolution. 0-3-3. Preq., BISC 130, 131, or equivalent. A study of the concepts, problems, and methods involved in the formulation of modern evolutionary theory.
- **428:** Wetland Ecology. 0-3-3. Study of wetland characteristics and the ecological processes occurring within wetlands. Wetland delineation, restoration, construction and regulation will also be covered. Cannot be taken for credit if student has credit for FOR 428.
- **429:** Ichthyology. 4 1/4-2-3. Preq., BISC 132, 133. Systematics, anatomy, and ecology of fish with emphasis on local freshwater species.

- **430:** Herpetology. 4 1/4-2-3. Preq., BISC 132, 133. The taxonomy, distribution, life histories, and ecology of the herpetiles, with special emphasis on those species found in Louisiana.
- **432:** Mammalogy. 4 1/4-2-3. Preq., BISC 132, 133. The identification, taxonomy, characteristics, and general biology of mammals with emphasis upon those of North America.
- **433:** Ornithology. 4 1/4-2-3. Preq., BISC 132, 133. Identification, taxonomy, characteristics, and general biology of birds, with emphasis upon those of North America.
- **434:** Limnology. 4 1/4-2-3. Preq., BISC 132, 133. The study of the chemical, physical, and biotic aspects of freshwater environments.
- **435:** Pond Management. 4 ¼-2-3. Preq., BISC 132, 133, 434. A detailed study of biotic adaptations and biotic and chemical controls in pond ecosystems with emphasis on aquatic vertebrates.
- **436:** Field Botany Problems. 30-0-3. Preq., Junior standing and permission of instructor. A field trip experience for study of aquatic and terrestrial plant communities. Offered on demand.
- 437: Field Zoology Problems. 30-0-3. Preq., Junior standing and permission of instructor. A field trip experience for studying the natural history of animal species. Offered on demand.
- 438: Marine Microbiology. 8-3-4. Preq., BISC 130, 131, 132, 133. Introduction to the marine and estuarine microbes, especially bacteria and fungi; covers classification, methodology, role in marine ecosystems, biogeochemical cycles and diseases of marine animals. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 439: Marine Science for Teachers. 2-8-3. Survey of the marine sciences, techniques for teaching marine science at secondary and elementary school levels. Five weeks at the Louisiana Universities Marine Consortium Coastal Laboratory.
- **441:** Wildlife Management Internship. 3 hours credit, 40 hours per week. Work experience in the use of the equipment, materials, and procedures in wildlife management.
- 442: Wildlife Management Internship. 3 hours credit, 40 hours per week. Work experience in the use of the equipment, materials, and procedures in wildlife management.
- **443:** Wildlife Management Internship. 3 hours credit, 40 hours per week. Work experience in the use of the equipment, materials, and procedures in wildlife management.
- 444: Environmental Microbiology. 4-2-3. Preq., BISC 260. Basic and contemporary aspects of soil, water, and industrial microbiology. Credit will not be given for BISC 444 if credit is given for ENSC 444.
- 445: Immunohematology, 3-1-2. Preq. BISC 341 or consent of instructor. Principles of donor screening, immunological testing for compatibility, tests for infectious agents and record keeping associated with transfusion medicine.
- 447: Principles of Pharmacology. 0-3-3. Preq. 8 credit hours of biological and/or chemical sciences. The classification, modes of action, and therapeutic utility of common pharmacological agents are described.
- 449: Biological and Clinical Applications of Radioisotopes. 3-1-2. Preq., CHEM 104. Intensive training in the use of specialized equipment for measuring ionizing radiations used in biological systems.
- 450: Biological Topics. 1-4 hour(s) credit (8). An opportunity to observe and discuss topics of current interest in the biological and/or medical sciences. Offered on demand.
- 454: Microbial Ecology and Diversity. 4-2-3. Preq., BISC 260. A contemporary approach to examining the evolution and interactions of prokaryotic and eukaryotic microbes in their natural environments.
- 455: Wildlife Diseases. 0-3-3. Preq., BISC 132, 133. Study of viral, bacterial, fungal, and metazoan causative agents of disease of wildlife.
- 458: Environmental Law. 0-3-3. Preq., BISC 130, 131, or approval instructor. A review and analysis of state and federal laws, conventions, and international treaties that influence natural resource management. Credit will not be given for BISC 458 if credit is given for ENSC 458.
- **459:** Food and Dairy Microbiology. 3-3-4. Prcq., BISC 260. Microorganisms of importance in the food and dairy industry including methods for rapid detection of food borne pathogens.
- **460: Analytical Thinking.** 0-3-3. Development of skills for science problemsolving, critical thinking, and communication.
- 465: Forensic Anthropology. 0-3-3. Introduction to forensic anthropology, including intensive study of human skeletal anatomy and variation, archaeological and taphonomic methods and techniques, and crime scene investigation.
- 466: Medical Anthropology. 0-3-3. Introduction to medical anthropology, including non-western perspectives on disease causation and curing,

paleopathology, ethnomedicine, ethnopsychiatry, shamanism, alternative medicine and biocultural approaches to health problems.

- 467: Biological Anthropology, 0-3-3. Introduction to physical anthropology, including primate anatomy and behavior, human origins and evolution, human adaptation and variation, applied anthropology, and the interrelationship between biology and culture.
- **470:** Medical Ethics. 0-3-3. Reading and discussions of the application of various principles of ethics to questions of medical practice.
- 471: Neuroscience and Neural Engineering. 0-3-3. Principles of neuroscience encompassing structure and function of the nervous system at the molecular, cellular, and system levels, including the visual, auditory, and motor systems.
- 472: Neuroscience Laboratory, 4-0-1. Laboratory studies in neuroscience with a concentration on standard histological, anatomical, and physiological techniques.
- 475: Scientific Inquiry. 0-2-2. Focus will be on the pursuit of scientific knowledge, emphasizing materials and methods employed. A chronological approach will correlate historical settings with the persons who experienced triumph and tragedy in their endeavors.
- 477: Practica/Internship/Cooperative Education in Biological Sciences. 1-3 hours credit. May be repeated once. (Pass/Fail). On site, supervised, structured work experiences located within a 100 mile radius of Ruston. Application and supervision fee required.
- 478: Practica/Internship/Cooperative Education in Biological Sciences. 1-3 hours credit. May be repeated once. (Pass/Fail). On site, supervised, structured work experiences located within a 101-200 mile radius of Ruston. Application and supervision fee required.
- 479: Practica/Internship/Cooperative Education in Biological Sciences. 1-3 hours credit. May be repeated once. (Pass/Fail). On site, supervised, structured work experiences located beyond a 201-mile radius of Ruston. Application and supervision fee required.
- 480: Undergraduate Seminar, 0-1-1. Preq., Scnior standing. Required of all senior BISC majors. Supervised study, reports, and discussion of current biological literature. Credit will not be given for BISC 480 if credit is given for ENSC 400.
- **482:** Introduction to the Human Brain. 0-2-2. This on-line course will provide an overview of the major structural and functional features of the human brain.
- **483:** Marine Botany. 8-3-4. Preq., BISC 132, 133. Study of marine and coastal algae and vascular plants including elassification, morphology, life cycles, and ecology. Five weeks at the Louisiana Universities Marine Consortium Coastal Laboratory.
- **484:** Marine Vertebrate Zoology. 8-3-4. Preq., BISC 132, 133, plus 8 additional hours of biology. General study of the marine chordates with particular emphasis on fishes, including classification, structure, function, and ecology. Five weeks at the Louisiana Universities Marine Consortium Coastal Laboratory.
- **485:** Marine Ecology. 8-3-4. Preq., BISC 132, 133; CHEM 102, 104. Relationships of marine estuarine organisms to environmental factors; interactions among organisms, communities and ecosystems of the Louisiana coastal zone. Five weeks at the Louisiana Universities Marine Consortium Coastal Laboratory.
- 486: Marine Invertebrate Zoology. 8-3-4. Preq., BISC 132, 133. General study of the classification, structures, function, and ecology of marine and estuarine invertebrates, emphasizing those of the Louisiana Gulf Coast. Five weeks at the Louisiana Universities Marine Consortium Coastal Laboratory.
- 487: Molecular Mechanisms of Bacterial Diseases. 4-3-4. Bacteria capable of causing infections and diseases in humans, including molecular and cellular interactions that occur between humans and bacteria during infections.
- **490:** Microscopy Techniques. 0-3-3. An introduction to the theory and practice of microscopy and histological techniques.
- 491: PCR Methods and Applications. 0-3-3. Preq., BISC 260, 310. Nucleic acid extraction methods, and PCR-based techniques for analysis/detection/genotyping of clinical, environmental, archival samples.
- **492:** Protein Analysis, 3-2-3. Introduction to laboratory methods used in the analysis of proteins, including extraction, determination of concentration, chromatography, and electrophoresis.
- 501: Graduate Parasitology. 3-2-3. Biology, physiology, morphology, and ecology of the major parasites of humans and domestic animals.

- **502:** Research Methods in Biological Sciences. 0-3-3. Preq., graduate status. An introduction for graduate students to basic methods used in research in the biological sciences.
- 503: Graduate Immunology Laboratory. 3-0-1. Laboratory training in the preparation, titration, purification, and detection of antigens and antibodies.
- 504: Advanced Microbial Physiology, 3-3-4. Preq., BISC 335. An advanced course on the physiology of bacteria, including bacterial growth and variation, cytology, nutrition, respiration, and temperature effects.
- 505: Advanced Plant Physiology. 3-2-3. Preq., BISC 405. Principles that underlie interpretation of the physical and metabolic processes of plants. Offered on demand.
- 508: Graduate Bacterial Genetics. 3-2-3. Regulation of gene expression, DNA transfer, mutations, and molecular tools in genome analysis.
- 509: Biological Sciences Seminar. 0-t-1 (2). Survey of literature on current topics in either Bacteriology, Botany, Microbiology, or Zoology, where appropriate.
- 511: Graduate Developmental Biology. 6-2-3. Study of the reproductive and developmental events in organisms emphasizing both observational and experimental methods.
- **512:** Advanced Immunology, 6-1-3. Preq., consent of the instructor. An advanced study of the activities of antigens and antibodies.
- 513: Ecological Topics. 0-3-3 (6). Preq., BISC 313, or 413. An advanced study of selected ecological topics. Offered on demand.
- 515: Graduate Environmental Plant Physiology. 0-3-3. Fundamentals of biological environments and physiological responses of plants to their environment. Emphasis is placed on the mechanisms underlying physiological responses.
- 516: Contemporary Topics. 1-4 hour(s) credit. An opportunity to examine and discuss a variety of timely topics pertaining to the biological sciences. May be repeated with a change in subject matter.
- 517: Applied Biological Sciences Research. 6-1-3. Preq., BISC 502. Laboratory or field studies for non-thesis Master of Science students in the biological sciences. Provides graduate training in applied research skills.
- 519: Graduate Plant Pathology. 3-2-3. Intermediate and advanced concepts related to the interaction of plants with plant pathogens.
- 521: Principles of Cell and Molecular Biolugy. 0-3-3. Principles of cell and molecular biology, including molecular structure and function, cellular processes, bioenergetics, and regulation of metabolism.
- 522: Graduate Molecular Biology. 0-3-3. Emphasis on protein structure and function, DNA and RNA, replication, transcription, translation, and control of gene expression. Molecular techniques including transformation, plasmids, PCR, and blotting.
- 524: Advanced Plant Taxonomy, 3-2-3. Preq., BISC 222. Problems of nomenclature and recent concepts of plant classification. Offered on demand.
- 526: Graduate Histology. 8 ½-1-3. Microscopic study of animal tissues with an emphasis on structural and functional relationships.
- 528: Advanced Wetland Ecology. 0-3-3. Study of wetland characteristics and the ecological processes occurring within wetlands. Wetland delineation, restoration, construction, and regulation will also be covered. Credit will not be given for BISC 528 if credit is given for FOR 528.
- 530: Biological Sciences Special Problems. 1-6 hours. Preq., written permission of instructor and Advisory Committee Chairperson. No more than 6 hours credit combined with BISC 540 and 541.
- 532: Graduate Mammalogy. 4 4-2-3. Preq., BISC 132, 133. The biology of mammals with emphasis on taxonomy, evolution, distribution, identification, order, and family characteristics, plus emphasis on study techniques.
- 533: Graduate Ornithology. 4 ¼-2-3. Preq., BISC 132, 133. The biology of birds with emphasis on taxonomy, evolution, distribution, identification, and study techniques.
- 535: Current Topics in Biological Sciences. 0-1-1 (4). Preq., graduate status. An interactive discussion of current issues and problems in the biological sciences. May be repeated for credit with change of course content.
- 540: Biological Sciences Internship. 40-0-3. Preq., Graduate standing, consent of Advisory Committee Chairperson and Instructor. Careeroriented joh experiences. No more than 6 hours credit combined with BISC 530, 540, or 541.
- 541: Biological Sciences Internship. 40-0-3. Preq., Graduate standing, consent of Advisory Committee Chairperson and Instructor. Careeroriented job experiences. No more than 6 bours credit combined with BISC 530, 540, or 541.

- 542: Graduate Mycology. 4 ³/₄-2-3. A detailed field and laboratory study of the Kingdom Fungi emphasizing diversity, ecology, and evolution.
- 543: Graduate Medical Mycology. 0-2-2. A study of the fungi that affect animals, emphasizing diagnoses and treatment of mycoses and allergies.
- 544: Graduate Environmental Microbiology. 4-2-3. Microecology in soil/water environments, industrial microbiology, and selected topics in symbiosis.
- 545: History of Zoology. 0-3-3. The historical development of the science of zoology, the persons who contributed to this development, and the nature of the times which produced them. Offered on demand.
- 551: Research and Thesis. Registration in any quarter may be for 3 semester hours credit or multiples thereof. Maximum credit allowed is six hours.
- 554: Graduate Microbial Ecology and Diversity, 4-2-3. A detailed study of the interactions of prokaryotic and eukaryotic microbes and their evolution.
- 559: Graduate Food and Dairy Microbiology, 3-3-4. Emphasis on microbes used to manufacture foods, plus topics of food safety and the detection of spoilage and pathogenic organisms in food.
- 562: Graduate Virology: 3-2-3. Intermediate and advanced concepts related to virology, with emphasis on virus nomenclature, structure, taxonomy, replication, and the consequences of virus infections in organisms and populations.
- 565: Graduate Forensic Anthropology. 0-3-3. Introduction to forensic anthropology, including intensive study of human skeletal anatomy and variation, archaeological and taphonomic methods and techniques, and crime scene investigation.
- 566: Graduate Medical Anthropology. 0-3-3. Anthropology of medicine emphasizing non-western perspectives of disease causation and curing, ethnic psychoses, ethnobotany, human disease history, alternative medicine and biocultural approaches to health issues.
- 567: Graduate Biological Anthropology. 0-3-3. Biological anthropology emphasizing primate anatomy, behavior and systematics, the human fossil record, evolution of human behavior, human adaptation, and the relationship of biology to culture.
- 570: Graduate Medical Ethics. 0-3-3. Intensive discussions, presentations, and readings concerning the theories of ethics and their applications to the practices of the health professions.
- 590: Graduate Microscopy Techniques. 0-3-3. Theory and techniques necessary for microscopy and histological studies.
- 591: Graduate PCR Methods and Applications. 0-3-3. DNA and RNA extraction and analysis techniques, including real-time approaches for gene expression studies.
- 592: Graduate Protein Analysis. 3-2-3. Laboratory methods used for protein analysis. Techniques include protein extraction and quantification, polyacrylamide electrophoresis, and blotting.

BIOMEDICAL ENGINEERING (BIEN)

- 202: BME Principles I. 0-1-1. Coreq., CHEM 102, BISC 225; Preq., MATH 240. Basic qualitative and quantitative principles of biomedical engineering are presented. The general field of biomedical engineering is reviewed with introduction of conservation and modeling concepts.
- 203: BME Principles II. 0-1-1. Coreq., BISC 227; Preq., BIEN 202. An introduction to the role of engineering in analyzing physiological systems and in designing devices and instrumentation to study and treat biomedical problems.
- 204: BME Principles III. 0-1-1. Preq., BIEN 203. A continued introduction to the role of engineering in analyzing physiological systems and in designing devices and instrumentation to study and treat biomedical problems.
- 225: Biomedical Systems. 0-3-3. Preq., ENGR 221 and credit or registration in MATH 243. Analysis techniques for frequency and time domain signals that occur in linear and non-linear physiological systems. Lumped modeling of physiological phenomena.
- 230: Biomaterials. 0-2-2. Preq., BIEN 203. Compatibility of materials for use in biomedical applications.
- 301: Biomedical Fluid Mechanics and Biomedical Energy Transport. 0-3-3. Preq., BIEN 202, MATH 245, PHYS 202, BISC 321, and ENGR 222. The principles of fluid mechanics and thermal energy exchange (momentum and energy balances) in biomedical systems. Analysis of engineering and physiological systems and incorporation of these principles into design of such systems.
- 310: Introduction to Clinical Engineering, 3-2-3. Preq., BIEN 202. A foundation course in medical and clinical terminology, medical

instrumentation, medical sciences, hospital procedure and medical practice from an engineering perspective.

- **320:** Bioenergetics. 0-3-3. Preq., MATH 242, PHYS 201, BIEN 204. The student is introduced to the concept of bioenergetics-the thermodynamics of living systems. The laws of thermodynamics are emphasized and applied to biological systems.
- 325: Bioinstrumentation. 3-2-3. Preq., PHYS 202, BISC 227, Coreq. or credit for MATH 244. Analysis and design of biomedical instrumentation. Basic circuitry, electronics and laboratory techniques including transducers, biopotentials, amplifiers, measurement and safety.
- 400: Biomedical Engineering Seminar. 3-0-1. Preq., Senior standing. Instruction and practice in conference-type discussions of technical and professional matters of interest to biomedical engineers.
- 401: Biomedical Mass Transport. 0-3-3. Preq., BIEN 301. The principles of mass balances and transport phenomena in biomedical systems. Analysis of engineering and physiological systems and incorporation of these principles into the design of such systems.
- 402: Biomedical Engineering Design I. 0-2-2. Preq., BIEN 325, 400, 401, 430; ENGL 303. Individualized design projects requiring integration and synthesis of prior engineering, life science, design and analytical skills. Utilization of the engineering design process and consideration of biomaterials, biomechanics, human factors, ethical and legal concerns, and oral and written communication skills.
- 403: Analysis and Design of Physiological Control Systems. 0-3-3. Preq., BIEN 225, 401. Methods for analyzing and designing linear feedback systems. Physiological control mechanisms presented qualitatively and quantitatively. Design of systems involving physiological systems.
- 404: Biomedical Engineering Design II. 0-2-2. Preq., BIEN 402. A continuation of BIEN 402.
- 410: Clinical Engineering Internship. 20-20-6. Preq., BIEN 310 or equivalent and consent. A practical exposure to the health care delivery system. Application of engineering principles to problems unique to that system.
- **420:** Biomaterials and Biomechanics. 0-3-3. Preq., BIEN 301, ENGR 220. Properties of living tissue. Biocompatibility. polymers, metals, and ceramics as biomaterials. Implants for hard and soft tissue. Fundamentals of biomechanics.
- **425:** Advanced Biomedical Instrumentation Systems. 3-2-3. Preq., BIEN 325, or consent. Further analysis and design of biomedical instrumentation. Practical aspects of ideal and real operational amplifiers, and an introduction to microprocessor interfacing.
- 430: Biomechanics. 0-3-3. Preq., BIEN 230, 301. Mechanical properties and reactions of biological tissues and organs. Analysis of stress, strain and strain rate for biological and bio-artificial components.
- **435:** Senior Biomedical Engineering Laboratory. 3-0-1. Preq., BIEN 401, 403, and 430. Laboratory experiments that demonstrate concepts and techniques in biofluid mechanics, biomechanics, biological mass transport and tissue engineering.
- 450: Special Topics. 1-4 semester hours credit. May be repeated for credit. Preq., senior standing and consent of instructor. Problems covering selected topics of current importance or special interest or need.
- **455:** Biotechnology and Bioprocesses. 0-3-3. Preq., BIEN 301, 401. Introduction to biotechnology and bioprocesses. Microbiology and biochemical reactions are reviewed. Enzyme kinetics, microbial growth transport phenomena, and design of biochemical reactors are studied. Cross-listed with CMEN 455. (G)
- 471: Neuroscience and Neural Engineering. 0-3-3. Principles of neuroscience encompassing structure and function of the nervous system at the molecular, cellular, and system levels, including the visual, auditory, and motor systems.
- 472: Neuroscience Laboratory. 4-0-1. Laboratory studies in neuroscience with a concentration on standard histological, anatomical, and physiological techniques.
- 500: Systems Physiology for Biomedical Engineers. 0-4-4. Preq. Graduate standing and permission of the instructor. Principles of human physiology, including cellular physiology, and the nervous, muscular, cardiovascular, and respiratory systems for engineers. Graduate core course.
- 501: Physiological Modeling I. 0-4-4. Preq., BIEN 500 and Differential Equations, or consent of instructor. Principles and applications of transport phenomena and mathematical modeling to biomedical systems and devices. Distributed, lumped, and lumped-distributed modeling. Graduate core course.

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502: Biotransport Phenomena. 0-3-3. Preq., BIEN 501. A continuation of BIEN 501.

- 503: Physiological Modeling II. 0-3-3. Preq., BIEN 501 or consent of instructor. Application of mathematical modeling and engineering analysis to physiological components and systems. Feedback mechanisms for homeostasis. Computer project implementation. Graduate core course.
- 510: Bioinstrumentation. 0-4-4. Preq., Graduatc standing and consent of instructor. Introduction to medical instrumentation systems, biosensors, biopotentials, signal conditioning, analog-to-digital conversion, and signal processing. Graduate core course.
- 515: Biosensors and Their Applications. 4-2-3. Permission of instructor. Introduction to biosensors in general with special emphasis on oxygen biosensors and their development. Surgical techniques and laboratory procedures for animal experimentation.
- 540: System Analysis and Mathematical Modeling of Physiological Phenomena. 0-3-3. Preq., permission of instructor. The course deals with the analysis of biological systems and the theory behind the development and solution of mathematical models for the description of biological system behavior.
- 550: Special Topics. 3 hours credit. Preq., Permission of instructor. May be repeated for credit. Selected topics dealing with advanced subjects in Biomedical Engineering.
- 551: Research and Thesis in Biomedical Engineering, 0-0-3. Proq., open to M.S. Graduate Students in Biomedical Engineering. Registration in any quarter may be for 3 semester hours credit or multiples thereof. Maximum credit allowed is six semester hours.
- 555: Practicum. 0-3-3 (6). Preq., 12 semester hours of graduate work. Analytical and/or experimental solution of an engineering problem; technical literature survey required; development of engineering research techniques. (Pass/Fail).
- 556: Biomedical Engineering Internship. 20-0-6. Preq., permission of instructor. Graduate level internship emphasizing application of engineering design principles in a research, health care or rehabilitation setting.
- 557: Special Topics: Biomedical Engineering. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of biomedical engineering. May be repeated as topics change.
- 560: Review of Assistive Technology in Rehabilitation. 0-3-3. Preq., permission of instructor. Study of physical disabilities and the rehabilitation process.
- 562: Rehabilitation Engineering & Assistive Technology I. 3-2-3. Preq., BIEN 560. Assessment and the development of engineering solutions in rehabilitation. Emphasis on scating and positioning, mobility, work, and activities of daily living.
- 563: Rehabilitation Engineering & Assistive Technology II. 3-2-3. Preq., BIEN 560. Assessment and the development of engineering solutions in and augmentative rehabilitation. Emphasis on transportation communication.
- 570: Artificial Intelligence Applications in Biomedical Engineering. 0-3-3. Preq., Prior introduction to artificial intelligence fundamentals. Artificial intelligence and expert systems application in medical and biomedical problems. Fundamental contributions of medical expert systems.
- 571: Graduate Neuroscience and Neural Engineering. 0-3-3. Principles of neuroscience encompassing structure and function of the nervous system at the molecular, cellular, and system levels, including the visual, auditory, and motor systems.
- 575: Artificial Neural Networks. 0-3-3. Presentation of foundational concepts and constructs used to analyze and characterize artificial neural network paradigms, their attributes, their applications and their implementations.
- 599: Graduate Seminar. 0-1-1. (Pass/Fail). Issues in graduate education. Presentations of current topics in research, teaching, and practice. May be repeated for credit.
- 651: Special Topics: Research. 0-0-3. Preq., open to Ph.D. candidates in Biomedical Engineering who have not completed their academic language and General Comprehensive Examination requirements. This course represents a limited research project, which will lead to a comprehensive and well-designed dissertation research proposal. A grade will be suhmitted at the end of each quarter for this course.

BUSINESS COMMUNICATION (BSCM)

- 305: Communication. 0-3-3. Preq., ENGL 102. Theory and nature of communication in organizational settings, interpersonal communication, written business communication, listing, communications. Analysis of business problems and preparation of written/oral solutions.
- 520: Directed Research and Readings. 0-3-3. Research methodology; organization of research, problems requiring independent implementation, outline of solution, and preparation of reports. Emphasis placed on problem solving for policy-making decisions.
- 475: Business Communication. 0-2-2. (Pass/Fail). Non-degree credit. A course designed for improving communication skills, both oral and written, when communicating in a business environment.
- 620: Business Research Methods. 0-1-1. A study of research methodology used in business administration, a review of research completed in respective DBA areas, and the development of a dissertation proposal. (May be repeated for a total of 3 hours credit.)

BUSINESS LAW (BLAW)

- 255: Legal Environment of Business. 0-3-3. Studies relations and effect of law on business, society, and the individual, including ethical considerations, history, court system, torts, government regulation, contracts, and business organization.
- 356: Commercial Law. 0-3-3. A study of specific topics of law essential to the business decision-making process. Areas of law covered include contracts, commercial paper, agency, and sales.
- 410: Business Law for Accountants. 0-3-3. Preq., BLAW 255 and senior standing. A concentrated study of all topical areas of business law. Coverage includes contracts, credit transactions, governmental regulations, business organizations, bankruptcy, and property and related topics. (G)
- 441: Real Property. 0-3-3. Preq., BLAW 255. Estates in land, titles, deeds, mortgages, leases, land contracts, minerals, easements and successions.
- 445: Legal Aspects of Government and Business. 0-3-3. Preq., BLAW 255 or special permission of the instructor. A study of landmark law cases with special emphasis placed on guideline interpretive decisions of significance to management.

CHEMICAL ENGINEERING (CMEN)

- 202: Chemical Engineering Calculations. 3-2-3. Coreq., ENGR 122, MATH 242. Problems and recitation in material and heat balances involved in chemical processes. Application of Chemical Engineering and chemistry to manufacturing in chemical industries.
- 213: Unit Operations-Design 1. 0-3-3. Preq., CMEN 202, 254, MATH 244. Design procedures for equipment and processes involving fluid flow and fluid mixing, with emphasis on computer assisted design techniques.
- 254: Laboratory Measurements and Report Writing. 5-1-2. A study of chemical process variables and material balances with an introduction to technical report writing.
- 304: Transport Phenomena. 0-3-3. Preq., CMEN 213, 313, 413, MATH 245. Fundamental principles of energy, mass, and momentum transfer and transport processes.
- 313: Unit Operations-Design II. 0-3-3. Preq., CMEN 213. Design procedures for equipment and processes involving heat transfer, with emphasis on computer assisted design techniques.
- 332: Chemical Engineering Thermodynamics II. 0-3-3. Preq., ENGR 222. Estimation of thermodynamic properties from equations of state. Application of thermodynamic equilibria to physical and chemical equilibria. Energy analysis of processes.
- 353: Chemical Engineering Junior Laboratory. 3-0-1. Preg., CMEN 254, 313. Laboratory study of fluid phenomena, heat transfer processes and equipment, and evaporation.
- 402: Chemical Reaction Engineering. 0-3-3. Homogenous and heterogeneous chemical reaction kinetics, applications to ideal and real reactor types. (G)
- 407: Instrumentation and Automatic Process Control. 3-2-3. Survey of process instrumentation methods, and the analysis and design of feedback, feed forward, and cascade control systems. (G)
- 408: Pulp and Paper Processes. 0-3-3. Preq., senior standing in CMEN. Introduction to the pulp and paper industry, its terminology, technology and economics. Conversion of various cellulosic materials into unbleached pulp and paper products. (G)
- 411: Environmental Chemodynamics. 0-3-3. Preq., CMEN 413 and senior standing in CMEN. A study of the modeling and prediction of the

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movement and fate of synthetic chemicals in the air-water-earth environments. Cross-listed with CVEN 411. (G)

- 413: Unit Operations-Design III. 0-3-3. Preq., CMEN 313. Application of design procedures for equipment and processes involving evaporation, distillation, leaching, extraction, gas absorption and desorption, with emphasis on computer assisted design techniques.
- 415: Theory and Practice of Radiation Protection and Shielding, 0-3-3. Preq., senior standing. An introduction to principles of dosimetry. The concepts of probability of causation, risk assessment, and methods of establishing exposure limits will be discussed. (G)
- 430: Chemical Plant Design I. 0-2-2. Preq., senior standing in CMEN, An introduction to applied process economics and to process hazards, their identification and reduction.
- 432: Chemical Plant Design II. 0-2-2. Preq., scnior standing in CMEN and CMEN 430. Comprehensive problems are assigned, the solution of which enables one to calculate dimensions and capacities of required plant equipment. Computer applications.
- 434: Chemical Plant Design III. 0-2-2. Preq., CMEN 432. CMEN 432. continued.
- 435: Polymer Engineering. 0-3-3. Polymer technology and processes including polymer structure, states, and transitions; kinetics of polymerization; molecular weight determination; viscous flow; mechanical properties; polymer degradation; analysis and identification. (G)
- 442: Process Optimization. 0-3-3. An objective study of the present status of optimization methodology as applied to the chemical process industries. Both deterministic and non-deterministic systems are considered. (G)
- 443: Air Pollution Control Design. 0-3-3. An overview of the air pollution problem. Design of devices to control emissions (VOC's, NOx, SO2, participates, etc.) Cost estimation of air pollution control systems. (G)
- 450: Special Problems. 1-4 semester hours credit. Problems covering selected topics of current importance or special interest or need. (G)
- 451: Senior Chemical Engineering Laboratory. 4.5-0-1. Laboratory study and report writing in reactor design and mass transfer operations.
- 452: Special Projects Laboratory, 1 hour credit. Selected comprehensive problems. Study and/or laboratory development of: industrial unit operations; new chemical processes; improvement of established processes; economic evaluations. Theoretical studies.
- 455: Biochemical Engineering. 0-3-3. Preq., CMEN 402. Introduction to biotechnology and bioprocesses. Microbiology and biochemical processes are reviewed. Enzyme kinetics, microbial growth transport phenomena, and design of biochemical reactors are studied. Cross-listed with BIEN 455. (G)
- 456: Hazardous Waste Management. 0-3-3. A study of the legislation, regulation, technology, and business matters relating to hazardous waste management. (G)
- 475: Combustion, Fires and Explosions. 0-3-3. Nature of combustion, controlled and free burning fires, and evaluation of explosion hazards. (G)
- 501: Advanced Unit Operations. 0-3-3. Design calculations applicable to various unit operations including drying, humidification, absorption, adsorption, distillation, heat exchangers, ion exchange, cooling towers and filtration.
- 504: Advanced Chemical Engineering Kinetics. 0-3-3. Homogeneous reactions. Catalytic reactions. Mass and heat transfer in catalytic beds. Catalytic reactor design. Uncatalyzed heterogeneous reactions.
- 513: Transport Phenomena. 0-3-3. A course in which advanced concepts on momentum, energy, and mass transport is explored. Emphasis is placed on unsteady state behavior, turbulence, and recent developments in the literature.
- 521: Energy Analysis of Industrial Processes. 0-3-3. Preq., An undergraduate course in thermodynamics. The application of the concept of exergy, or energy availability, to the systematic analysis of processes and plants to make most efficient use of limited energy resources.
- 522: Advanced Thermodynamics. 0-3-3. The relations of thermodynamic properties are developed. Problems on the expansion and compression of non-gases, liquefaction, low temperature separation are studied.
- 524: Seminar. 0-1-1 each. Surveys, investigations, and discussions of current problems in Chemical Engineering.
- 550: Special Problems. 1-4 semester hours. Preq., consent of instructor. Selected topics dealing with advanced problems in chemical engineering and design of equipment. The problems and projects will be treated by current methods used in professional practice.

- 551: Research and Thesis in Chemical Engineering. Registration in any quarter may be for three semester hours credit or multiples thereof. Maximum credit allowed is six semester hours.
- 555: Practicum. 0-3-3 (6). Preq., 12 semester hours of graduate work. Analytical and/or experimental solution of an engineering problem; technical literature survey required; development of engineering research techniques. (Pass/Fail)
- 557: Special Topics: Chemical Engineering, 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of chemical engineering. May be repeated as topics change.

CHEMISTRY (CHEM)

- 100: General Chemistry, 0-2-2. Preq., MATH 101. Fundamental principles of chemistry: Chemistry and measurement, atomic symbols and chemical formulas, stoichiometry, gases and thermochemistry. Statewide Transfer Agreement Course*.
- 101: General Chemistry. 0-2-2. Preq., CHEM 100. Continuation of CHEM 100: Atomic and molecular structure, theories of molecular bonding, liquids, solids and solutions. Statewide Transfer Agreement Course*.
- 102: General Chemistry. 0-2-2. Preq., CHEM 101. Continuation of CHEM 101: Rates of reaction, study of chemical equilibria including those involving acids, bases, sparingly soluble salts and complex ions, thermodynamics of equilibrium and introductory electrochemistry. Statewide Transfer Agreement Course*.
- 103: General Chemistry Laboratory. 4 1/4-0-1. Coreq., CHEM 101. Laboratory practice in general chemistry. Statewide Transfer Agreement Course*.
- 104: General Chemistry Laboratory. 4 1/4-0-1. Preq., CHEM 103. Continuation of CHEM 103. Statewide Transfer Agreement Course*.
- 107: General Chemistry, 0-3-3. Preq., MATH 101. Fundamental principles of chemistry; chemistry and measurement, atomic symbols and chemical formulas, stoichiometry, gases and thermochemistry. Atomic and molecular structure, theories of molecular bonding.
- 108: General Chemistry. 0-3-3. Preq., CHEM 107. Continuation of CHEM 107. Liquids, solids, and solutions. Rates of reaction, study of chemical equilibria including those involving acids, bases, sparingly soluble salts and complex ions, thermodynamics of equilibrium and introductory electrochemistry.
- 120: An Introduction to Inorganic Chemistry, 0-3-3. Topics covered will include scientific units, states of matter, the electronic structure of atoms, the chemical bond, solutions, reaction kinetics, acid-base theory, and buffers. Statewide Transfer Agreement Course*.
- 121: An Introduction to Organic Chemistry and Biochemistry. 0-3-3. Preq., CHEM 120 or 102. Survey of hydrocarbons and their derivatives; biomolecules including proteins, sugars, lipids, and nucleic acids. Not to be used as a prerequisite for advanced chemistry courses.
- 122: Chemistry Laboratory, 4-0-1. Preq., CHEM 120. Basic laboratory experiments in inorganic, organic, and biochemistry.
- 205: Analytical Chemistry, 4 1/4-3-4. Preq., CHEM 102. Theory and practice of analytical Chemistry.
- 250: Organic Chemistry, 0-2-2. Preq., CHEM 102. Introduction to organic chemistry with emphasis on structure and reactivity of aliphatic hydrocarbons and alkyl halides. Statewide Transfer Agreement Course*.
- 251: Organic Chemistry. 0-2-2. Preq., CHEM 250; Coreq., CHEM 253. Continuation of CHEM 250 with emphasis on aromatic hydrocarbons, alcohols, aldehydes, ketones, and related reaction mechanisms and spectroscopy. Statewide Transfer Agreement Course*.
- 252: Organic Chemistry. 0-2-2. Preq., CHEM 251; Coreq., CHEM 254. Continuation of CHEM 251 with emphasis on carbonyl compounds, aliphatic and aromatic amines, phenols, carbohydrates and related reaction mechanisms. Statewide Transfer Agreement Course*
- 253: Organic Chemistry Laboratory, 4 1/4-0-1. Preq., CHEM 102; Coreq., CHEM 251. Selected experiments emphasizing both laboratory operations and related basic principles and mechanisms.
- 254: Organic Chemistry Laboratory. 4 1/4-0-1. Preq., CHEM 253; Coreq., CHEM 252. Introduction to multi-step organic syntheses and related reaction mechanisms.
- 281: Inorganic Chemistry. 4 1/2-2-3. Preq., CHEM 102 and 104. Introduction to inorganic chemistry, including a systematic study of the periodic table with emphasis on structure, properties and reactivity of the elements of inorganic compounds.
- 301: Introductory Physical Chemistry, 0-3-3. Preq., CHEM 102 and MATH 112 or 241. An introduction to physical chemistry, with emphasis on

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properties of gases, thermodynamics, chemical equilibrium, ionic equilibria, chemical kinetics, and molecular spectroscopy.

- 311: Physical Chemistry, 0-3-3. Preq., CHEM 102 and 252, MATH 242 and PHYS 202 or 209. Basic theories of chemistry with emphasis on gases, chemical thermodynamics and phase equilibria.
- 312: Physical Chemistry. 0-3-3. Preq., CHEM 311. Basic theories of chemistry with emphasis on chemical kinetics, quantum theory, statistical thermodynamics and molecular spectroscopy.
- 313: Physical Chemistry Laboratory. 4 1/4-0-1. Coreq., CHEM 311. Laboratory experiments in physical chemistry.
- 314: Physical Chemistry Laboratory. 4 1/4-0-1. Preq., CHEM 311; Coreq., CHEM 312. Continuation of CHEM 313.
- 351: Biochemistry. 0-3-3. Preq., CHEM 252, 254. The chemistry of biologically important compounds including fats, carbohydrates, proteins, enzymes, vitamins, and hormones.
- 352: Biochemistry. 0-3-3. Preq., CHEM 351. Intermediary metabolism and molecular biology of the gene.
- 353: Biochemistry Laboratory, 4 1/4-0-1. Coreq., CHEM 351. Techniques applicable to current biochemistry with emphasis on basic research procedures.
- 354: Biochemistry Laboratory. 4 1/4-0-1. Preq., CHEM 351 and CHEM 353. Techniques applicable to current biochemistry with emphasis on metabolism and molecular biology.
- 390: Chemical Literature. 0-1-1 (2). A survey of chemical information sources and strategies for choosing appropriate sources to solve specific chemical information problems.
- 409: Advanced Organic Chemistry. 0-3-3. Preq., CHEM 312. Introduction to theoretical organic chemistry with emphasis on carbocation chemistry and pericyclic reactions.
- 420: Chemical Thermodynamics. 0-3-3. Preq., CHEM 312. An introduction to chemical thermodynamics.
- 424: Advanced Physical Chemistry. 0-3-3. CHEM 312 or PHYS 410 and MATH 245. A continuation of CHEM 311-312, including an introduction to quantum chemistry, and a quantum mechanical approach to the study of the structure of atoms and molecules.
- 450: Chemical Topics. 1-4 hour(s) credit (8). Preq., CHEM 312 and consent of instructor. An opportunity to observe and discuss topics of current interest in the chemical sciences. Offered on demand.
- 466: Instrumental Analysis. 8 1/2-2-4. Preq., CHEM 312. Theory and practice of optical methods of analysis, advanced electrical techniques, and modern separation methods. (G)
- 470: Methods, Materials and Activities for Teaching Chemistry. 0-3-3. Preq., CHEM 102 and instructor permission. A course especially designed for the high school chemistry instructor.
- 471: Methods, Materials and Activities for Teaching Chemistry. 4 1/2-3-4. Preq., CHEM 102 and instructor's permission. A continuation of CHEM 470.
- 481: Advanced Inorganic Chemistry. 4 1/2-2-3. Preq., CHEM 252, 312. An advanced study of the periodic classification of elements, their reactions, and other inorganic principles. (G)
- 490: Chemistry Seminar. 0-1-1 (3). Preq., Senior or graduate standing. Required of chemistry graduate students. Supervised organization and presentation of topics from the chemical literature. (G)
- 498: Undergraduate Research. 1-3 hours credit (6). Preq., consent of instructor. Introduction to methods of research and completion of a basic research problem.
- 501: Physical Organic Chemistry. 0-3-3. Preq., CHEM 409. An advanced study of the mechanisms of organic methodology used in their investigations, and organic quantum chemistry.
- 502: Selected Topics in Organic Chemistry. 0-3-3 (6). Preq., CHEM 409. Areas covered will vary; however they will generally include advanced organic synthesis and related structure identification with emphasis on spectroscopic techniques.
- 503: Topics in Chemistry, 1-3 hours credit (6). Independent study. Topics arranged to meet the needs of the student.
- 520: Molecular Spectroscopy. 0-3-3. Preq., CHEM 312. The relationship between molecular spectra and molecular structure.
- 523: Special Topics in Physical Chemistry. 0-3-3. Preq., CHEM 312. Topics will vary and will include kinetic theory of gases, molecular structure, phase rule, photochemistry, nuclear chemistry, chemical kinetics, or statistical thermodynamics.
- 524: Quantum Chemistry. 0-3-3. Preq., CHEM 312. Physical and chemical applications of quantum theory.

- 549: Practicum in Chemistry. 0-3-3 (6). Preq., 12 semester hours of graduate work. Experimental or computational study of a problem in chemistry. A survey of the relevant literature and a formal written report are required. (Pass/Fail)
- 551: Research and Thesis in Chemistry. Registration in any quarter may be for three-semester hours credit or multiples thereof. Maximum credit allowed is six semester hours.
- 555: Special Topics in Biochemistry. 0-3-3 (9). Preq., CHEM 352. Topics covered will vary and may include toxicology and clinical biochemistry.
- 556: Protein Chemistry, 0-3-3. Preq., CHEM 351. The chemical nature and physiology of hoth structural and metabolic proteins.
- 563: Advanced Analytical Chemistry. 0-3-3. Preq., CHEM 466. Theoretical aspects of the optical, chemical, and separation techniques of analytical chemistry.
- 564: Selected Topics in Analytical Chemistry, 0-3-3. The topic or topics will be selected in the general areas of chemical separations or spectroscopy by the instructor. (TECH-NLU Collaborative).
- 584: Chemistry of Coordination Compounds. 0-3-3. Preq., CHEM 481. A study of the structure, preparation, and properties of coordination compounds.
- 586: Special Topics in Inorganic Chemistry. 0-3-3. Preq. CHEM 584 or instructor's permission. A topic will be selected on a rotating basis from the following: magnetic and electric properties, solid state structures, catalysis, and group theory applications of inorganic materials.

CIVIL ENGINEERING (CVEN)

- 202: Civil Engineering Materials Laboratory. 4-0-1. Corcq., MEMT 201. Introduction to laboratory testing of aggregates, concrete, asphalt, steel, and other materials used by civil engineers.
- 254: Plane Surveying. 4-2-3. Preq., MATH 112 or 240. Theory, field measurements, and computation and error analysis associated with land, traverse, and topographic surveys.
- 300: The Civil Engineering Profession. 0-3-3. Preq., sophomore standing. Open only to civil engineering students. The civil engineering profession and its effect on society. History and heritage, current professional practices and techniques, concepts and challenges for the future.
- 310: Water Resources I. 0-3-3. Preq., MEMT 313. Hydrologic and hydraulic analysis of precipitation and runoff, storm water management, detention basin design, and flood frequency analysis.
- 314: Environmental Engineering, 3-2-3. Preq., ENGL 303, CHEM 103. Introduction to the unit operations and processes most often encountered in water and wastewater treatment.
- 324: An Introduction to Soils Engineering. 4-1-2. Preq., ENGL 303, MEMT 211. Introduction to soil mechanics and its application to civil engineering. A presentation of soil properties and characteristics pertinent to an evaluation of various engineering situations, problems and designs.
- 325: Introduction to Foundation Engineering. 0-3-3. Preq., CVEN 324. Consideration of bearing capacity, settlement of structures, slope stability, foundation design requirements, subsurface exploration, regional soil conditions, footings, mats, and retaining walls.
- 332: Transportation Engineering I. 0-3-3. Prcq., ENGR 122. Introduction to transportation facilities; urban transportation planning; traffic, design, safety, and the environment.
- 333: Transportation Engineering II. 3-2-3. Preq., CVEN 332. Design of highway and airport runway elements in a laboratory and field environment.
- 340: Structural Analysis & Design. 3-2-3. Preq., MEMT 211. Analysis of simple and continuous structures using classical and matrix methods. Introduction to structural design concepts.
- 342: Steel Design. 0-2-2. Preq., CVEN 340. Fundamental elastic design of members and connections in elementary steel structures. Use of codes and specifications for steel design.
- 343: Reinforced Concrete Design. 0-2-2. Preq., CVEN 340. Principles underlying the design of integral parts of reinforced concrete structures: beams, girders, slabs, and columns. Use of codes and specification for reinforced concrete design.
- 355: Advanced Surveying. 4-2-3. Preq., CVEN 254. Advance error propagation theory, including an introduction to least squares. Various horizontal/vertical high precision surveys; geodetic concepts and surveys; Global Positioning Systems.
- 357: Engineering and Construction Surveying, 4-1-2. Prcq., CVEN 254. Horizontal/vertical curves; earthwork; topographic/planimetric surveys for map/drawing construction; engincering use of State Plane Coordinate System; surveys for buildings, pipelines, and others.

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- 411: Water Resources II. 3-2-3. Preq., CVEN 310. Computer modeling of precipitation and runoff, open channel hydraulics, flood profiles, pipe networks. Applications of modeling software for hydrologic and hydraulic design.
- 414: Bituminous Mixture Design. 3-2-3. Preq., senior standing. Selection of binders and aggregates for mixture design processes. Methods include Marshall, Hveem and SUPERPAVE. Laboratory mixes will be designated and tested. (G)
- 417: Groundwater Hydrology. 0-3-3. Preq., CVEN 310. Groundwater occurrence, movement and quality, well hydraulics, basin development, and model studies. (G)
- 421: Portland Cement Concrete. 0-3-3. Production, testing, uses, and performance of Portland cement and Portland cement concrete (PCC). Detailed investigation into PCC components. Admixtures and special concretes. (G)
- 423: Introduction to Asphalt Technology. 3-2-3. Preq., senior standing. Production and uses of asphalt; measurement and significance of laboratory properties including viscosity, penetration, flash point, ductility, solubility, thin film oven test and specific gravity. (G)
- **425:** Traffic Engineering. 0-3-3. Preq., CVEN 332. Traffic characteristics, vehicle operating characteristics, traffic control, and design of traffic facilities. Basic traffic studies, capacity, signing and signalization, speed regulation and parking. (G)
- 427: Design of Highway Pavements. 0-3-3. Preq., CVEN 324. Flexible and rigid pavement types. Factors affecting stresses and strains in pavement tayers. Design criteria and structural design methods for highway pavements. (G)
- **436:** Construction Equipment and Methods. 0-3-3. Preq., Junior standing, and ENGR 122 or INEN 300. Study of economics and functional applications of construction equipment. Operation characteristics are identified for selected equipment items, and are applied to typical construction situations. (G)
- 437: Contracts and Specifications. 0-3-3. Preq., CVEN 439. In-depth study of legal documents of construction contracts. Modern techniques for scheduling construction projects.
- **438:** Estimating. 0-3-3. Preq., CVEN 254 and junior standing. Types of estimates. Material takeoff from blueprints and specifications. Detailed estimates of labor and materials. Approximate estimates. (G)
- 439: Construction Planning, Contracts and Specifications. 0-2-2. Preq., INEN 300 or ENGR 122, and junior standing. Introduction to methods for planning and scheduling construction projects and specifications. Team efforts on problems and case studies.
- 440: Foundation Engineering, 0-3-3. Preq., CVEN 325 or consent of instructor. Theory and applications in foundation engineering design; application of soil mechanics. (G)
- **450:** Special Problems. 1-4 hours credit. Prcq., senior standing and consent of instructor. Planning, organization, and solution of problems in Civil Engineering.
- 456: Legal Aspects of Boundary Surveying, 0-3-3. Preq., CVEN 254. Legal aspects of various boundary systems. Legal principles of boundary surveys: common statute law, written/unwritten rights and rules of evidence, property descriptions/layout.
- 457: Practical Surveying, 40-0-3. Preq., CVEN 355, 357, or 456. An on-thejob training program; student is employed by registered professional surveyor for 300 working hours (minimum); work to be approved by program chair.
- 459: Introduction to Infrastructure Management. 0-3-3. Preq., junior standing. Lifecycle approach to planning, designing, and managing infrastructure (highways, streets, utilities); infrastructure decision support systems; performance measures and prediction; computer applications; case studies. (G)
- **464:** Advanced Design of Concrete Structures. 0-3-3. Preq., CVEN 341. Advanced topics in the design of reinforced and prestressed concrete structures. (G)
- **466:** Advanced Structural Design. 0-3-3. Preq., CVEN 341. Advanced topics in the design of steel and timber structures. Load and resistance factor design. (G)
- 480: Introduction to Trenchless Technology. 0-3-3. Preq., CVTE 210 or MEMT 313. Basic technologies, design considerations and construction practices for underground infrastructure construction and rehabilitation with minimal ground surface disturbance.
- 492: Civil Engineering Design I. 3-0-1. Preq., senior standing and within 3 quarters of graduation. Open-ended design problems typical of those

encountered in the Civil Engineering profession and calling for the integration of geotechnical, structures, transportation and water resources.

- **493:** Civil Engineering Design II. 3-0-1. Preq., Coreq., CVEN 492. A continuation of CVEN 492.
- **494:** Civil Engineering Design III. 3-0-1. Preq., CVEN 492; Coreq., CVEN 493. A continuation of CVEN 493.
- **501:** Frame Analysis. 0-3-3. Preq., CVEN 340. Single and multi-story frames by moment distribution, slope deflection and column analogy methods. Frames and beams with variable cross-section. Secondary stresses in trusses. Dimensional analysis and theory of models.
- 509: Dynamic Analysis of Structures. 0-3-3. Preq., MATH 245. Analysis of structures (SDOF and MDOF) under wind, wave, earthquake and impact forces.
- 510: Advanced Soil Mechanics. 0-3-3. Preq., CVEN 324. Evaluation of subsoil conditions, theory of consolidation and bearing capacity of soils; selection application and design of foundation elements of structures.
- 512: Design of Deep Foundations. 0-3-3. Preq., CVEN 440. Analysis and design of pile foundations, drilled shafts, piers and sheeting support systems.
- 514: Bituminous Mixture Design. 3-2-3. Selection of hinders and aggregates for mixture design processes. Methods include Marshall, Hycem and SUPERPAVE. Laboratory mixes will be designed and tested.
- 517: Advanced Pavement Design. 0-3-3. Preq., CVEN 427. Traffic and loading considerations for airfield pavements. Structural design methods for highway and airfield pavements, with emphasis on computerized design and analysis techniques.
- 519: Techniques for Pavement Rehabilitation. 0-3-3. Evaluation of roadway distress, roughness, friction, drainage and structural surveys will be discussed. Survey results used to identify cost-effective techniques for pavement rehabilitation.
- 522: Design of Temporary Structures. 0-3-3. Advanced topics in the design of temporary structures required for complex construction projects.
- 527: Statistical Methods in Hydrology. 0-3-3. Preq., CVEN 310. Frequency analysis, extreme value distribution, error analysis, and multiple regression analysis associated with making engineering decisions using hydrologic data.
- 530: Water Quality Improvement. 3-2-3. Preq., CVEN 314. Stream selfpurification processes. Pollution abatement methods. Industrial waste surveys. Principles of treatment for domestic and industrial wastewaters.
- 531: Contaminant Transport. 0-3-3. Preq., CVEN 310, 314. Mathematical modeling of contaminant transport in surface and ground water systems.
- 536: Wastewater Disposal Systems. 3-2-3. Preq., CVEN 314. Advanced problems in design of domestic and industrial waste treatment systems.
- 550: Special Problems. 1-4 hours credit. Advanced problems in Civil Engineering will be assigned according to the ability and requirements of the student. An opportunity will be afforded to plan, organize, and complete solutions in problems of considerable magnitude with a view toward developing confidence and self-reliance.
- 551: Research and Thesis in Civil Engineering. Registration in any quarter may be for three semester hours credit or multiples thereof. Maximum credit allowed is six semester hours.
- 555: Research and Communications Seminar. 0-3-3. Preq., 12 semester hours of graduate work. Oral and written communication of literature search.
- 557: Special Topics: Civil Engineering. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of civil engineering. May be repeated as topics change.
- 560: Transportation Systems Planning. 4-2-3. Preq., CVEN 332. A study of transportation systems as they affect travel behavior of a populace and the location of economic activities.
- 561: Traffic Engineering Characteristics. 0-3-3. Traffic laws, ordinances, and control devices; intersection characteristics, pretimed control, traffic actuated control, arterial and network progression.
- 564: Feasibility Analysis of Transportation Systems. 0-3-3. Goals, objectives and criteria used for decision making for transportation investments; economic analysis and treatment of intangibles and risk; non-users impact analysis.
- 578: Applications of Nonlinear Finite Element Analysis to Civil Engineering Problems. 0-3-3. Preq., MEMT 508 Application of the theory of the finite element method to nonlinear problems in Civil Engineering.
- 579: Advanced Structural Dynamics. 0-3-3. Advanced studies of the dynamic response of structures including experimental, analytical and computational procedures. Particular emphasis is given to Civil

Engineering applications with a consideration of multiple degrees-offreedom and continuous systems.

- 580: Trenchless Technology. 0-3-3. Preq., MEMT 313 and CVEN 324. Survey of trenchless technologies, underground infrastructure management, cured-in-place, slip lining and fold and form rehabilitation, horizontal directional drilling, pipe jacking and microtunneling. Credit will not be given for both CVEN 480 and 580.
- 599: Graduate Seminar. 0-1-1. Issues in graduate education. Presentations of current topics in research, teaching and practice. May be repeated for credit. (Pass/Fail).

CIVIL TECHNOLOGY (CVTE)

- 100: Introduction to Construction. 3-2-3. An introduction to the construction industry, the work of professional construction managers and technologies, the curriculum, and the reading of building and highway plans.
- 210: Basic Hydraulics. 4-2-3. Preq., MEMT 206. Physical phenomena of hydraulics with application of the fundamental laws and empirical formulae. Pressure forces on submerged areas, buoyancy, flow in closed conduits and open channels and fluid measurements.
- 372: Structural Mechanics and Analysis. 0-3-3. Preq. MEMT 206 and MATH 220. Theory of the mechanics of structural analysis and design. Not open to Civil Engineering majors.
- 373: Construction Materials. 4-2-3. Preq., ENGL 303 and MEMT 206. Mechanical behavior of engineering materials, determination of strength and other properties of materials, and construction applications.
- 424: Seminar. 3-0-1. Preq., senior status. Reading and discussion of assigned papers, presentation of current issues in construction, and discussions with professional construction personnel.
- 471: Reinforced Concrete, Foundations, and Formwork. 0-3-3. Preq., CVTE 372. Analysis and design of reinforced concrete structures, slabs, and footings. Design and selection of formwork and shoring.
- 473: Design of Structures. 3-2-3. Preq., CVTE 372. Design of elementary structures in timber and steel.
- 475: Soils in Construction. 0-3-3. Preq., MEMT 206. The nature of soils, earthwork in construction and soils testing methods.
- **492:** Construction Project Bid Planning. 6-0-2. Preq., CVEN 439 and senior standing. Capstone construction experience that includes planning the sequence of construction operations, creating a bill of materials, and estimating the cost of a small construction project by student teams.

CLINICAL LABORATORY SCIENCE (CLAB)

- **450:** Pathophysiology. 0-3-3. A case history approach is taken in the correlation of laboratory data with clinical observation to diagnose disease.
- **451:** Laboratory Studies in Pathophysiology. 4 1/4-0-1. Preq., or Coreq., CLAB 450. Student application of modern laboratory techniques used in the clinical pathology laboratory with emphasis on clinical hematology, clinical chemistry, urodynamics and clinical immunology.
- 457: Professional Practices. 0-2-2. Healthcare administration, educational techniques, career opportunities/ development, QA/QA, ethics, interview techniques, plus credentialing and accreditation in medical technology are discussed.
- 460: Clinical Hematology. 2-6 semester credit hours. Preq., consent of instructor. Advanced concepts in the theory, application and medical interpretation of hematological and hemostatic mechanisms and methods.
- 461: Clinical Hematology Laboratory. 1-5 semester credit hours. Preq., consent of instructor. Instruction and laboratory practice in the development and use of advanced analytical procedures and instrumentation in clinical hematology and hemostasis.
- 462: Clinical Serology and Immunology. 1-4 scmester credit hours. Prcq., consent of instructor. Advanced concepts in the theory, application and medical interpretation of serological and immunological mechanisms and methods.
- 463: Clinical Serology and Immunology Laboratory. 1-4 semester hours credit. Preq., consent of instructor. Practical instruction and laboratory practice in the performance of serological and immunological procedures.
- **464:** Clinical Bacteriology. 2-5 semester credit hours. Preq., consent of the instructor. Advanced concepts in the use and interpretation of medical bacteriological procedures and data.
- 465: Clinical Bacteriology Laboratory. 3-6 semester credit hours. Preq., consent of the instructor. Instruction and laboratory practice in the

development and use of advanced analytical procedures and instrumentation in clinical bacteriology.

- 466: Clinical Immunohematology. 1-4 semester credit hours. Preq., consent of the instructor. An advanced study of the principles of immunohematology necessary to provide a patient with a safe blood transfusion.
- 467: Clinical Immunohematology Laboratory. 1-4 semester credit hours. Preq., consent of instructor. Practical instruction and laboratory practice in immunohematological procedures utilized in a hospital blood bank.
- 468: Clinical Chemistry and Toxicology. 3-6 semester credit hours. Preq., consent of the instructor. Advanced concepts in the theory application, and medical interpretation of clinical biochemical mechanisms and methods.
- 474: Clinical Urinatysis. 1-3 semester credit hours. Preq., consent of instructor. Advanced concepts in the use and interpretation of urinalysis procedures and data.
- 475: Clinical Urinalysis Laboratory. 1-3 semester credit hours. Preq., consent of instructor. Practical instruction and laboratory practice in the performance of urinalysis procedures.
- 476: Clinical Parasitology, Mycology and Mycobacteriology. 1-2 semester credit hours. Preq., consent of instructor. Advanced concepts in the use and interpretation of procedures and data in clinical parasitology, mycology, and mycobacteriology.
- 477: Clinical Parasitology, Mycology and Mycobacteriology Laboratory. 1-2 semester credit hours. Preq., consent of instructor. Instruction in laboratory practice in the development and use of advanced analytical procedures in clinical mycology, parasitology, and mycobacteriology.
- 478: Clinical Laboratory Administration. 1-2 semester credit hours. Preq., consent of instructor. Modern management concepts for the clinical laboratory.
- 479: Clinical Histopathology. 1-5 semester credit hours. Preq., consent of instructor. Advanced concepts in the use and interpretation of histotechnological procedures and findings.
- 480: Clinical Medical Technology Problems. 1-8 semester credit hours. Preq., consent of instructor. An introduction to emerging medical technologies.
- **483:** Clinical Parasitology. 1-2 semester credit hours. Identification, clinical significance, and methods of prevention of parasitic infections.
- 484: Clinical Parasitology Laboratory. 1-2 semester credit hours. Instruction and laboratory practice in the development and application of medical parasitology laboratory methods.
- 485: Clinical Mycology. 1-2 semester credit hours. Identification, clinical significance and methods of prevention of mycotic infection.
- 486: Clinical Phlebotomy and Specimen Procurement. 1-3 semester credit hours. Preq., consent of instructor. Instruction and laboratory practice in phlebotomy and the collection of other specimens for clinical analysis. Specimen preservation and safe lab practices are included.
- 487: Clinical Hemostasis. 1-4 semcster hours credit. Preq. consent of instructor. The theory of the coagulation cascade, analytical procedures that monitor this process and the clinical significance of coagulopathies are discussed.
- 488: Clinical Hemostasis Laboratory. 1-4 semester hours credit. Laboratory procedures which assess the coagulation cascade and related processes.
- 489: Clinical Chemistry and Toxicology Laboratory. 3-8 semester hours credit. Practical instruction and laboratory practice in clinical chemistry procedures, including associated instrumental analysis.

COMPUTATIONAL ANALYSIS & MODELING (CAM)

- 610: Current Topics in Research. 0-3-3. May be repeated. Required for ACAM doctoral students each quarter. Non-degree credit. Research Methodology, current research of doctoral candidates, faculty, invited lecturers.
- 620: Special Topics in Computational Science and Engineering. 1-3 hours credit. May be repeated for 1-3 hours credit each time.
- 690: Dissertation Research. 0-3-3. Doctoral students only. Registration in any quarter may be for three semester hours credit or multiples thereof, up to a maximum of nine semester hours credit per quarter. Maximum total credit allowed is thirty hours.

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COMPUTER INFORMATION SYSTEMS (CIS)

- 110: Computer Tools for Business. 1-2-3. The development and enhancement of computer skills and knowledge using current business software.
- 310: Principles of Information Systems. 0-3-3. Preq., CIS 110, junior standing. Introduction to concepts and principles of information system resources, analysis, development, management, and applications.
- 323: Database System Management. 0-3-3. Preq., CIS 310, 339. Managing and communicating the data resource using database principles and useroriented data languages.
- 335: Application Development for the Internet. 0-3-3. Preq., CIS 310, 339. Programming for Internet- and Intranet-based business applications. The principles of good software engineering and program clarity will be stressed.
- 337: Business Applications Development: Current Programming Techniques. 0-3-3. Preq., CIS 310, 339. Provides overview of business application development, using program development methodology. Emphasizes object-oriented and data-driven languages for business students with limited programming background.
- 339: Business Applications with COBOL. 0-3-3. Prcq., CIS 110. Applying program and file structures to design programs for business applications. Development of COBOL language skills for coding the designs.
- 401: Internship in CIS I. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.
- 402: Internship in CIS II. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.
- 444: Network Design & Implementation. 0-3-3. Preq., CIS 310, 339. Issues of designing, implementing, and managing computer networks, including both Local Area Networks (LANs) and Wide Area Networks (WANs).
- 450: Systems Analysis, Design, & Implementation. 0-3-3. Preq., CIS 323, 335, 337, and 444. An in-depth life cycle approach to information systems analysis, design, and implementation. (G)
- 510: Information Resource Management. 0-3-3. Preq., CIS 310. Attention is given to strategic implementation of technology, secure and effective systems, externally focused systems, along with the historical and social environment of information systems.
- 515: Decision Support Systems. 0-3-3. Information technology in the firm and non-profit organization with a focus on using computers, data bases, knowledge bases, graphics, and models to support decision making.
- 535: Advanced Computer Applications. 0-3-3. Study of the development and application of Expert Systems and use of development shells. Topics Acquisition, System Development, include: Knowledge and Validation/Verification.
- 540: Topics in Information Technology Management. 0-3-3 (9). Information technology management issues addressed include: virtual teams, knowledge management, IT investments, business process change, Web-based systems, software project management, outsourcing, IT management roles. Course may be repeated for up to 9 hours credit with change of title/subject matter.
- 550: Directed Study in Computer Information Systems. 1-3 hours credit, Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of computer information systems.
- 615: Decision Support Systems. 0-3-3. Requires Doctoral standing. May require additional class meetings. Information technology in the firm and non-profit organization with a focus on using computers, data bases, knowledge bases, graphics, and models to support decision making. Credit will not be given for CIS 615 if credit is given for CIS 515.
- 625: Information Systems Project Management. 0-3-3. Preq., DBA student or consent of instructor. Intensive review of theories and literature on information systems (IS) project development and management. IS project management techniques and managerial issues will be examined. A research project proposal in IS management will be developed and completed.
- 630: Seminar in Computer Information Systems. 0-3-3. Study of current topics in the discipline of Computer Information Systems. In-depth analysis of a specialized research field along with an investigation of the literature.
- 635: Advanced Computer Applications. 0-3-3. Requires Doctoral standing. May require additional class meetings. Study of the development and application of Expert Systems and use of development shells. Topics

include: Knowledge Acquisition, System Development, and Validation/Verification. Credit will not be given for CIS 635 is credit is given for CIS 535.

- 650: Directed Study in Computer Information Systems. 1-3 hours credit, Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of computer information systems.
- 685: Comprehensive Exam in Computer Information Systems, No credit, Doctoral standing required. Required for all business administration doctoral students seeking to take the comprehensive exam in CIS. Successful completion is a prerequisite to the oral comprehensive exam for those seeking a primary field or examined minor in CIS. Requires consent of graduate director.

COMPUTER SCIENCE (CSC)

- 100: Overview of Computer Science. 0-3-3. Preq., MATH 101 or equivalent. An overview of the field of computing; history, impact on society, and current trends; together with an introduction to operating systems, editors, and rudimentary programming.
- 120: Introduction to Computer Programming. 0-3-3. Preq., CSC 100 or equivalent and MATH 240. An introduction to program development, Emphasis is placed on problem analysis, algorithm development, data and control structures.
- 210: Discrete Mathematics for Computer Scientists. 0-3-3. Preq., CSC 120 and MATH 241. An overview of the mathematical foundations of computing. Topics include sets, symbolic logic, relations, functions, combinatorics, induction, trees, graphs, and Boolean algebra.
- 220: Data Structures. 0-3-3. Preq., CSC 120. The definition, representation, and manipulation of basic data structures such as arrays, stacks, queues, trees, and graphs. Practical applications of these structures will be emphasized.
- 230: Software Design. 0-3-3. Preq., CSC 220. Design, construction and maintenance of large software systems. Topics include project planning, requirements analysis, software design methodologies, software implementation and testing, maintenance.
- 240: Introduction to Concurrent Programming, 0-3-3. Preq., CSC 220. Fundamentals of concurrent, parallel, and distributed computing. Topics include semaphores, monitors, rendezvous, remote procedure calls, and asynchronous message passing, SIMD model, MIMD architectures.
- 251: Computer Organization & Assembly Language. 0-3-3. Preq., CSC 220. Introduction to computer organization and operation, data representation and manipulation, assembly language programming, register level operations, peripheral device interfaces.
- 265: Introduction to Digital Design. 0-2-2. Preq., CSC 251; Coreq., CSC 269. Introduction to digital design techniques, Boolcan algebra, combinational logic, minimization techniques, simple arithmetic circuits, programmable logic, sequential circuit design, registers and counters.
- 269: Digital Design Lab. 3-0-1. Coreq., CSC 265. Laboratory for digital design techniques, combinational and sequential logic design, registers and counters.
- 299: Cooperative Education Applications. 40-0-1 (7). Preq., Admission to the College of Engineering and Science Cooperative Education Program. Pass/Fail
- 310: Theory of Computing, 0-3-3. Preq., CSC 220 and MATH 311. An overview of formal languages, the abstract models of computing capable of recognizing those languages, and the grammar used to generate them.
- 325: Advanced Data Structures and Algorithms. 0-3-3. Preq., CSC 220. Advanced data structures and algorithm design. Topics include specialized trees, graphs, sets and tables, advanced searching and sorting, complexity analysis, and algorithm design techniques.
- 330: Programming Languages. 0-3-3. Preq., CSC 240, 325. Techniques for specifying the syntax and semantics of programming languages. Language concepts; execution environments; comparative analysis of programming languages.
- 345: Operating Systems. 0-3-3. Prcq., CSC 240 & 265. An introduction to operating systems concepts. Topics include processor management, storage management, device management, performance, security, and case studies of common operating systems.
- 364: Computer Architecture. 0-3-3, Prcq., CSC 265 & 269. Architecture and organization of computer systems. Topics include the processor, control unit and microprogramming, computer arithmetic, memory hierarchy and memory management, input/output, instruction sets.
- 404: Senior Capstone. 0-3-3. Preq., CSC 325 & scnior standing. This course provides a forum for discussion of the social and ethical aspects of

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computing. Communication skills will be emphasized through professional presentations and formal written essays.

- 418: Computer Architecture and Operating Systems. 0-3-3. Prcq., consent of instructor. Computer organization, and hardware design, digital logic, CPU structure, control unit, memory, and input/output; operating systems, process, scheduling, memory management, and file-system interface. (G)
- 419: Special Topics in Theory of Computing. 0-3-3. Preq., consent of instructor. Selected topics in the area of computing theory that are of current importance or special interest.
- 420: Design and Analysis of Algorithms. 0-3-3. Preq., CSC 325. Design and analysis of efficient algorithms. Topics include complex data structures, advanced searching and sorting, algorithm design techniques, and complexity analysis.
- 425: Discrete Mathematics, Data Structures and Algorithms. 0-4-4. Prcq., Consent of instructor (cannot be applied for credit toward any Computer Science degree). Mathematical foundations of computer science; definition, application and implementation of abstract data types; algorithm design and analysis techniques. (G)
- 428: Object Oriented Programming and Data Structures. 0-3-3. Preq., consent of instructor. Programming paradigms, syntax, semantics, data types, expression, control statements, and subprograms; object oriented concepts, abstract data types, recursion, queues, and trees. (G)
- 429: Special Topics in Software Development. 0-3-3. Preq., consent of instructor. Selected topics in the area of software design that are of current importance or special interest.
- 430: Database Management Systems. 0-3-3. Preq., CSC 325. Database concepts, organizations and applications; database management systems; implementation of a simple database. (G)
- 436: Compiler Design. 0-3-3. Preq., CSC 310, 330. Principles of compiler design: assembler design; lexical analysis; syntax analysis; automatic parser generations; error detection and recovery. (G)
- 437: Programming Language Paradigms and Software Development. 0-4-4. Preq., CSC 425 and consent of instructor (cannot be applied for credit toward any Computer Science degree). Imperative, functional, logical and object-oriented paradigms; programming language semantics and language translation; specification, design, implementation, validation, and maintenance of large software systems. (G)
- 438: Advanced Data Structures and Algorithm Design. (0-3-3). Preq., consent of instructor. Algorithm analysis and design, sorting algorithms, hashing, search trees, disjoint sets, graph algorithms, divide and conquer, greedy algorithms, dynamic programming, backtracking, and NP completeness. (G)
- 439: Special Topics in Programming Environments. 0-3-3. Preq., consent of instructor. Selected topics in the area of programming environments that are of current importance or special interest.
- 445: Architecture and Operating Systems; Parallel Computing. 0-4-4. Preq., CSC 425 and consent of instructor (cannot be applied for credit toward any Computer Science degree). Digital logic, instruction set architectures, microprocessor design; storage management, process synchronization and communications, device management; introduction to parallel architectures, languages and algorithms. (G)
- 449: Special Topics in Operating Systems. 0-3-3. Preq., consent of instructor. Selected topics in the area of operating systems that are of current importance or special interest.
- 450: Computer Networks: 0-3-3. Preq., CSC 345. An overview of computer networks. Topics include network topologies, layers, local area networks, and performance measurement and analysis. (G)
- 464: Advanced Digital Design. 0-3-3. Prcq., CSC 265. Synchronous sequential circuits, FSM optimization and implementation, testing, levelmode sequential design, race and hazards, advanced ALU, programmable logic devices, CAD tools and HDLs.
- 466: Microprocessor Systems Design. 0-3-3. Preq., CSC 364. Microprocessor-based system design, bus design, memory systems, input/output interfacing and DMA, microprocessor-based laboratory project.
- 468: Introduction to VLSI. 0-3-3. Preq., CSC 265. VLSI design methodologies, fabrication and layout, combinational and sequential design in VLSI, subcell design, system design, advanced design techniques.
- 469: Special Topics in Computer Architecture. 0-3-3. Preq., consent of instructor. Selected topics in the area of computer architecture that are of current importance or special interest.

- 470: Computer Graphics. 0-3-3. Preq., CSC 325. Fundamentals of two and three dimensional computer graphics. Topics include line drawing, polygon rendering, clipping algorithms, two and three dimensional transformations, and projection techniques. (G)
- 472: Human-Computer Interface. 0-3-3. Preq., CSC 230 and 325. Theory, design, and implementation of graphical human-computer interface strategies. Topics include interface layout, visualizing knowledge, comparison of user interfaces, and hypertext/hypermedia.
- 475: Artificial Intelligence. 0-3-3. Preq., CSC 330. The design and implementation of artificially intelligent programs. Topics include game playing, heuristic search, logic, knowledge representation, and reasoning strategies. Social implications are also discussed. (G)
- 479: Special Topics in Computer Applications. 0-3-3. Preg., consent of instructor. Selected topics in the area of computer applications that are of current importance or special interest.
- 490: Applied Computing Project. 1-3 hours credit. Prcq., junior standing in Computer Science or equivalent. Independent investigation of a problem in computing.
- 499: Special Topics in Computer Science. 0-3-3. Preq., consent of instructor. Selected topics of current importance or special interest.
- 505: Expert Systems. 0-3-3. Preq., CSC 475. Current topics in expert system design, knowledge acquisition, explanation generation and knowledge representation. A substantial expert system design, implementation and testing project is required.
- 512: Programming Language Semantics. 0-3-3. Preq., CSC 310 or CSC 436. Syntax specification using attribute grammars and two level grammars, operational semantics, translational semantics, formal semantic techniques such as denotational semantics, algebraic specification, and axiomatic semantics.
- 520: Advanced Analysis of Algorithms and Complexity. 0-3-3. Preq., CSC 420. Formal analysis of time and space requirements of various greedy algorithms, divide-and-conquer, algorithms, dynamic programming, P and NP algorithms; Turing machines and unsolvability.
- 521: Advanced Computer Architectures. 0-3-3. Preq., CSC 364. Topics include: pipeline systems design, processor design techniques (concepts, analysis, performance comparison, implementation, commercial processors), memory system design, interconnection media.
- 530: Database Theory. 0-3-3. Preq., CSC 430. Data models, relational algebra and relational calculus, data dependencies and schema normalization, Datalog, recovery and concurrency control, distributed database environments.
- 532: Advanced Topics in Software Engineering. 0-3-3. Preq., CSC 230. Readings in requirements analysis, formal specification techniques, software design techniques, CASE tools, software metrics, software verification and validation, quality assurance and software safety.
- 534: Performance Measurement and Evaluation, 0-3-3. Preq., CSC 345. Computer systems performance; analysis techniques; data acquisition methods; simulation techniques; interpretation of results.
- 541: High Performance Computer Architecture, 0-3-3. Preq., CSC 364. Topics include: principles of scalable performance, multiprocessor system design, message-passing systems, vector computers, data flow computers, and multithreaded architecture.
- 550: Special Problems. 1-4 semester hour credit. Individual research and investigation of a problem in computer science or computing practice.
- 551: Research and Thesis in Computer Science. Registration in any quarter may be for three semester hours credit or multiples thereof. Maximum credit allowed is six semester hours.
- 554: Advanced Networking. 0-3-3. Preq., CSC 450. May be repeated with change in subject matter. Selected research topics of current interest in the field of computer communications and networks.
- 555: Practicum. 0-3-3 Maximum credit allowed is three semester hours. Preq., 12 semester hours of graduate work. Analytical and/or experimental solution of a problem in computer science; technical literature survey required; development of a computer-based solution. (Pass/Fail)
- 557: Special Topics: Computer Science. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of computer science. May be repeated as topics change.
- 570: Advanced Topics in Computer Graphics. 0-3-3. Preq., CSC 470. Techniques used to produce realistic images of three-dimensional objects on computer graphics hardware. Topics include: reftection models, shading techniques, ray tracing, texture and animation.
- 575: Advanced Topics in Artificial Intelligence. 0-3-3. Preq., CSC 475. Advanced topics in artificial intelligence including: problem-solving

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systems, natural language understanding, intelligent tutoring systems, learning and neural networks.

- 579: Data Mining for Bioinformatics. 0-3-3. Preq., CSC 325 equivalent or consent of instructor. Topics include: Introduction to Data Mining (DM), data warehousing, OLAP for DM, data preprocessing, DM primitives, languages and system architecture, mining association rules in large DBMS, Introduction to Computational Bioinformatics (BI), DM for multi-dimensional BI data, image mining and CBIR.
- 580: Advanced Data Mining for Bioinformatics. 0-3-3. Preq., CSC 579 or equivalent or consent of instructor. Topics include: data mining (dm) concept description, classification, clustering, predictive analysis, anomaly detection in data marts, computational analysis of DNAs, DNA sequence analysis using DM techniques, pair-wise alignment techniques, multiple alignment techniques, secondary database searching using multidimensional indexing, future trends in DM.
- 581: Parallel Algorithms. 0-3-3. Preq., CSC 240. Models of parallel computers, basic communications operations, algorithms for searching, sorting, graph structures, and systolic systems, dynamic programming, performance and scalability of parallel systems.
- 582: Parallel Computational Methods. 0-3-3. Preq., CSC 240, MATH 415. implementations of FFT, interpolation, integration, Parallel Eigensystems, matrix maximization, ODEs, PDEs.
- 583: Computational Solutions for PDE I. 0-3-3. Preg., MATH 414. Finite difference schemes and their accuracy, stability, and convergence. Schemes for parabolic and hyperbolic PDEs. Emphasis on program implementation.
- 584: Computational Solutions for PDE II. 0-3-3. Preg., CSC 583 or MATH 574. Finite difference schemes for elliptic PDEs, iterative methods, and introduction to finite element methods and multigrid methods. Emphasis on program implementation.

COUNSELING (COUN)

- 400: Introduction to Counseling. 0-3-3. Introductory course for professional workers. Includes purposes and scope of counseling service, concepts, principles and basic techniques of counseling. (G)
- 401: Student Personnel Services. 0-3-3. A study of student personnel programs in colleges and universities. This course may not be taken for graduate credit.
- 460: Behavioral Counseling, 0-3-3. A non-cognitive approach to counseling that presents the necessary attitudes, concepts, principles, and skills for individual counseling.
- 500: Principles and Administration of Guidance Services, 0-3-3. An overview of the current principles and practices involved in various types of guidance and counseling services.
- 505: Analysis of the Individual. 3-2-3. Preq., PSYC 542 or equivalent. This course offers students an orientation to psychological testing procedures, their interpretation, evaluations and use in the understanding of clients.
- 506: Introduction to Rehabilitation Counseling. 0-3-3. Philosophical, social, psychological and legislative bases of rehabilitation; nature and scope of the process and functions of rehabilitation counselors.
- 507: Case Management in Rehabilitation Counseling, 0-3-3. Development of case management in procedures and skills: integration of theory and nractice.
- 508: Introduction to Counseling Theories. 0-3-3. A detailed study of a selection of the best known schools of counseling theory.
- 510: Counseling the Elderly. 0-3-3. Dynamic and therapeutic models for counseling the aged and their families; focus on matching interventions to lifestyles.
- 512: Counseling the College Student, 0-3-3. An emphasis on development in young adulthood; historical, philosophical, and practical aspects of personnel services for college students.
- 513: Career Information and Carcer/Life Style Development, 0-3-3. understanding Provides of career an development; occupational/educational information sources and systems; career and lifestyle counseling; carcer decision-making and instruments relevant to career planning.
- 514: Career Education: Vocational Guidance. 0-3-3. A course in career guidance designed to provide an overview of career development and its applications within the high school setting.
- 515: Career Education: Orientation of the World of Work. 0-3-3. A course in career guidance designed to provide an overview of career development and its applications within the elementary school setting.

- 516: An Introduction to Group Processes. 0-3-3. Preg., COUN 508. Emphasis is on providing students with a knowledge of group dynamics, and learning basic group counseling techniques under supervision.
- 518: Techniques of Counseling, 3-2-3. Preq., COUN 508. Provides an overview of counseling techniques and interview methods.
- 520: Case Studies in Counseling, 1-3 hours credit. Preq., COUN 508 and consent of instructor. Preparation and use of case studies in counseling.
- 521: Seminar: Current Psychological Literature. 1-3 hours credit, May be repeated. Preq., COUN 508 and consent of instructor. Students are required to do extensive reading on selected topics in psychology
- 522: Field Work in Counseling. 3 hours credit (6). Preq., COUN 518 and consent of instructor. Supervised study, observation, and practice in selected employment settings.
- 523: Elementary School Guidance. 0-3-3. A review of the principles and organizational patterns of guidance services at the elementary school level.
- 525: Advanced Techniques of Counseling, 3-2-3. Preq., COUN 518 and consent of instructor. Further experiences in advanced counseling techniques appropriate to various counseling theories.
- 526: Problems in Guidance. 3 hours credit (6). Special conferences, workshops, and seminars as requested by elementary and secondary school personnel. May be repeated for a maximum of 6 hours credit.
- 527: Addiction Counseling, 0-3-3. An introduction to the field of Addiction Counseling. Emphasis is placed on recognition and identification of the addicted as well as basic treatment techniques.
- 528: Advanced Addiction Counseling, 3-2-3. Preq., COUN 527. A methods course intended to equip the student with a basic conception of various therapeutic modalities.
- 529: Cross-cultural Counseling, 0-3-3. Investigation of the development of cultural identity and techniques for appropriate interactions with clients from different cultural groups.
- 530: Practicum. 5-1-3. Open only by application. Supervised professional activity in the student's major field. (Minimum 3.0 GPA required)
- 531: Internship. 20-1-3 (6). Preq., COUN 530 or equivalent and permission of adviser. Advanced supervised counseling practice in a setting appropriate to the student's professional development.
- 532: School Counseling Practicum, 5-1-3. Open only by application. Supervised professional activity in a school setting. (Minimum 3.0 GPA is required)
- 590: Ethics and Professional Practice. 0-3-3. Preq., COUN 508. An in-depth investigation of ethical and legal issues, as well as technical concerns, related to the professional practice of counseling.

ECONOMICS (ECON)

- 201: Economic Principles and Problems. 0-3-3 each. A study of basic economic principles and problems, with particular reference to the operation and social implications of the American economic system. (201-Macro). Statewide Transfer Agreement Course*,
- 202: Economic Principles and Problems. 0-3-3 cach. A study of basic economic principles and problems, with particular reference to the operation and social implications of the American economic system. (202-Micro). Statewide Transfer Agreement Course*.
- 215: Fundamentals of Economics. 0-3-3. (Not open to students who have had ECON 201-202.) A survey of the major principles of economics designed for the student whose curriculum requires only one quarter of economic principles. Statewide Transfer Agreement Course*.
- 312: Monetary Economics. 0-3-3. Preq., ECON 202 or 215. A study of the causes of changes in the supply of money and rate of spending and the effects of these changes on production, employment and the price level.
- 344: International Economics. 0-3-3. Prcq., ECON 201 or 215 or consent of instructor. Introduction to modes of business operations and the economic factors which affect international trade. Study of principles, practices, and theory of how and why nations trade.
- 401: Internship in Economics I. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.
- 402: Internship in Economics II. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.
- 403: Economics of Industrial Organization. 0-3-3. Preq., ECON 202 or 215. Relationships between structure, conduct and performance of industries using theoretical and empirical material: Antitrust and environmental regulation, R&D, product advertising and pricing are examined. (G)

- 406: Comparative Economic Systems. 0-3-3. Preq., ECON 202 or 215. A study of alternative economic systems such as capitalism, socialism, communism, and "mixed" in theory and practice.
- 408: Intermediate Economic Theory. 0-3-3. Preq., ECON 202 or 215, or consent of instructor. Microeconomics; intensive study of price, production, and distribution theories. (G)
- 409: Managerial Economic Analysis. 0-3-3. Preq., senior standing or consent of instructor. Lectures and cases emphasizing economic principles as used in managerial decision-making. Includes analysis of demand, cost and price relationships, price decision, risk and uncertainty, and capital investment. (G)
- 418: Labor Economics. 0-3-3. Preq., ECON 202 or 215 or consent of the instructor. Fundamentals of labor market operations, economic analysis of labor legislation; impact of American unions upon the firm's decision making and the national economy. (G)
- 437: Aggregate Economic Analysis. 0-3-3. Preq., ECON 312. Macroeconomics; intensive study of economic theory of national income analysis, interest, employment, and fiscal policy. (G)
- 510: Managerial Economics. 0-3-3. Preq., QA 390. 7Analysis and cases; actual case studies in the application of price and distribution theory to problems of the firm.
- 512: Current Economic Policies. 0-3-3. An investigation of modern economic concepts in the United States through a study of policies advanced by various economic groups tending to shape economic action.
- 513: Macroeconomic Theory I. 0-3-3. Preq., ECON 437 or other acceptable background course(s). Analysis of monetary factors and government revenue-expenditure factors affecting the general level of prices, investment decisions, interest rates, national income and employment.
- 520: Advanced Microeconomic Theory. 0-3-3. Preq., ECON 408 or other acceptable course(s). Value and distribution theory emphasizing applications to business operations and public policy issues.
- 532: Econometric Methods. 0-3-3. Preq., QA 432 or other acceptable courses. The use of statistical techniques in economic research including estimation and interpretation of parameters of economic models.
- 540: Macroeconomics: Business Conditions Analysis. 0-3-3. Preq., ECON 510. Detailed review of techniques, procedures and data sources used by business economists to gather, analyze, interpret, and forecast macroeconomic variables.
- 541: Microeconomics: Business Conditions Analysis. 0-3-3. Preq., ECON 510. Detailed review of techniques, procedures, and data sources used by business economists to gather, analyze, interpret and forecast microeconomic variables.
- 542: Seminar on Business Economics Problems. 0-3-3. Preq., ECON 510 or equivalent or consent of instructor. Students will develop and present an analytical study in micro- or macroeconomics in a form expected of a business economist's presentation to corporate management.
- **550:** Directed Study in Economics. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of economics.
- 613: Macroeconomic Theory I. 0-3-3. Preq., ECON 437 or other acceptable background course(s). Requires Doctoral standing. May require additional class meetings. Analysis of monetary factors and government revenue-expenditure factors affecting the general level of prices, investment decisions, interest rates, national income and employment. Credit will not be given for ECON 613 if credit is given for ECON 513.
- 620: Advanced Microeconomic Theory. 0-3-3. Preq., ECON 408 or other acceptable course(s). Requires Doctoral standing. May require additional class meetings. Value and distribution theory emphasizing applications to business operations and public policy issues. Credit will not be given for ECON 620 if credit is given for ECON 520.
- 632: Econometric Methods. 0-3-3. Preq., QA 432 or other acceptable courses. Requires Doctoral standing. May require additional class meetings. The use of statistical techniques in economic research including estimation and interpretation of parameters of economic models. Credit will not be given for ECON 632 if credit is given for ECON 532.
- 641: Microeconomics: Business Conditions Analysis. 0-3-3. Preq., ECON 510. Requires Doctoral standing. May require additional class meetings. Detailed review of techniques, procedures, and data sources used by business economists to gather, analyze, interpret and forecast microeconomic variables. Credit will not be given for ECON 641 if credit is given for ECON 541.
- 650: Directed Study in Economics. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of economics.

685: Comprehensive Exam in Economics. No credit. Doctoral standing required. Required for all business administration doctoral students seeking to take the comprehensive exam in economics. Successful completion is a prerequisite to the oral comprehensive exam for those seeking a primary field or examined minor in economics. Requires consent of graduate director.

EDUCATION (EDUC)

- 430: Internship in Teaching. 35-0-3 (9). Preq., 12 hours of professional education. Supervised teaching experience in area(s) of certification in Education. (G)
- 431: School Readiness. 1-3-3. Preq., PSYC 204 and Upper Division standing. Designed to acquaint the student with the appropriate theory, understanding, and methods necessary for beginning school success. Particular emphasis will be on holistic developmental readiness. (G)
- 460: Methods for Teaching and Testing in ESL. 0-3-3. Preq., Senior standing. Theories and techniques for teaching English as a Second Language and evaluating student performance; emphasis on communicative competence. Also listed as ESL 460.
- 462: Principles and Problems of Cooperative Education. 0-3-3. Preq., Upper Division standing. The basic principles and philosophies of cooperative vocational education. History and development of cooperative education. (G)
- 463: Materials and Methods in Teaching Art. 0-3-3. Prcq., EDUC 480, Upper Division standing. The planning of a course of art and the methods of presentation of such a course in the elementary and high schools. (G)
- 466: Materials and Methods of Teaching Instrumental Music. 0-3-3. Preq., EDUC 480. See EDUC 465 for description; emphasis on the instrumental aspects.
- 472: Individually Guided Education. 0-3-3. Presents the essential concepts principles, and skills of several individualized instruction models and teacher roles as designers, managers, and evaluators of the teachinglearning process.
- 502: Problems in Teaching Language Arts in the Elementary School. 0-3-3. A study of the principles, research, methods and materials needed for teaching written and oral forms of communication in elementary and junior high schools.
- **504:** Problems in Teaching Mathematics in the Elementary School. 0-3-3. A study of the needs and problems of teachers of mathematics in the elementary school. An introduction to modern arithmetic with emphasis on newer teaching methods.
- 520: Education for the Older Adult. 0-3-3. Designed as a study of the elderly as a unique group of learners, defining specific needs of the clderly.
- 530: Internship in Teaching. 35-0-3 (9). Preq., registration by application only, requires approval of academic advisor and Director of Laboratory Experiences. Supervised teaching experience in area(s) of certification in education. (Pass/Fail)
- 540: Comparative Education. 0-3-3. A study of the educational systems in Europe, the Orient, and South America.
- 541: Introduction to Graduate Study and Research. 0-3-3. Experience is gained in the application of techniques of educational research, in writing in acceptable form, and in evaluating research. Required of all master's candidates in education and should be scheduled during the first six hours of graduate work.

EDUCATIONAL COMPUTER TECHNOLOGY (ECT)

- 440: Technology for Teachers I. 0-3-3. This course is designed to introduce teachers to computer applications that support classroom instruction. Classroom management techniques and modeling effective teaching strategies will also be a part of the instructional process. (G)
- 441: Technology for Teachers II. 0-3-3. This course is designed to enhance teachers' classroom instruction through technology integration. Classroom management techniques and modeling effective teaching strategies will also be a part of the instructional process. (G)
- 442: Curriculum Enhancement Through Technology. 0-3-3. This course is designed to enhance the instructional program within the K-12 classroom. Emphasis will be placed on how technology can be easily integrated into standards-based lessons. (G)
- **445:** Introduction to Technology for Teachers. 4-1-3. This course is for preservice and inservice teachers who want to develop proficiency in using technology to support classroom learning. (G)

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- 500: Technology Leadership to Support Standards-Based Teaching & Learning. 4-1-3. Preq., ECT 445 or equivalent. Exploration of ways to use technology to support standards-based teaching and learning in the classroom.
- 501: Educational Telecommunications, Networks, & the Internet. 4-1-3. Preq., ECT 500 or equivalent. Examination of methods and resources for intergrating the Internet into content area learning.
- 502: Design & Development of Multimedia Instructional Units. 4-1-3. Preq., ECT 500 and 501. Design and development of multimedia products to facilitate student learning.
- 510: Technology for Teaching Reading/Language Arts. 4-1-3. Preq., ECT 445 or equivalent. Exploration of a variety of technology to support reading/language arts instruction. Includes the design and development of multimedia products.

EDUCATION CURRICULUM AND INSTRUCTION (EDCI)

- 100: Early Experiences in Education. 0-1-1. Designed to give high school seniors an overview of the teaching profession from the perspectives of Teacher Education, Health and Physical Education, and Special Education.
- 102: Reading Skills for College Freshmen. 9-0-3 (9). The course provides individually prescribed instruction in reading skills for college freshmen. The course objective is to help alleviate reading deficiencies, which inhibit effective learning. Non-degree credit.
- 125: Introduction to Teaching. 1-1-1. An overview of the teaching profession from various perspectives supplemented with structured observations in elementary, middle, and secondary classrooms.
- 189: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Education. May be repeated for credit.
- 194: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Education. May be repeated for credit.
- 205: The Computer: A Tool for the Teacher. 0-1-1. Instructional, utility, and management software applications for school use. Development of instructional materials, incorporation of commercially available software into lesson and unit structure.
- 245: Microcomputer Applications: Tools for Lifelong Learning. 0-3-3. Designed to introduce students to the microcomputer and a variety of software applications that may be useful for study, research, and educational preparation.
- **289:** Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Education. May be repeated for credit.
- **294:** Special Topics. 1-4 hours credit. Sclected topics in an identified area of study in the College of Education. May be repeated for credit.
- **300:** Driver Education and Highway Safety. 0-3-3. Investigation of the problems facing drivers, traffic design problems, and the study of the philosophy of driver education.
- 310: Instructional Technology. 1-3-3. Introduction to instructional media for the classroom. Students evaluate and use computer software and other audio-visual media to develop and support classroom instruction.
- 320: Materials and Methods for Elementary Science and Social Studies. 0-3-3. Preq., PSYC 204. A course for the study of curriculum, organization and teaching in elementary science and elementary social studies.
- 351: Materials and Methods in Teaching Modern Language. 0-3-3. Preq., 12 hours of modern languages and EDUC 480. The student will be introduced to the latest techniques of organizing materials and presenting them to bigh school pupils.
- 389: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Education. May be repeated for credit.
- 394: Special Topics. 1-4 hours credit. Selected topics in an identified area of study. May be repeated for credit.
- 400: Human Exceptionalities. 3-2-3. This course provides a survey (e.g. definitions, characteristics, identification, legislation, and education procedures) of students with exceptionalities (c.g., GT, MR, LD, EBD, VI, HI, PD). (G)
- 401: Directed Observation and Pre Student Teaching Experiences. 3 3/4-1-1. Preq., 90 semester hours including professional preparation courses and taken in quarter prior to student teaching. Directed observation, participation, and critique related to the field in which the student plans to student teach.
- 402: Measurement in Education. 0-2-2. Includes principles of measurement and evaluation, construction of teacher-made tests, and utilization of standardized tests.

- 403: Materials and Methods of Teaching Reading. 0-3-3. Preq., EDUC 480. Instructional techniques designed to assist the secondary teacher in implementing reading strategies in content courses. (G)
- 404: Reading Strategies for Secondary School Teachers. 0-3-3. Instructional techniques designed to assist the secondary teacher in implementing reading strategies in content courses.
- 405: Materials and Methods in Teaching Agricultural Education. 0-3-3. Preq., AGED 460 or consent of instructor. Techniques, requirements, and organization of state curriculum guides and course requirements in agricultural education in public schools. Requirements of the FFA advisor/agriculture teacher. (G)
- 406: Education Innovations in the Current and Emerging Schools. 0-3-3. Study of educational innovations and their implications.
- **409:** Materials and Methods in Teaching Business Education. 10-2-3. Preq., Upper Division. A course designed to acquaint the student with the best practices in teaching business subjects. (G)
- 410: Business and Office Procedures. 10-2-3. Preq., Upper Division. Methods and procedures in developing and coordinating a cooperative office education program in the secondary school. (G)
- 415: Multicultural Education. 0-3-3. Preq., Upper Division and PSYC 204. This course provides K-12 education students with the culturally inclusive awareness, skills, and knowledge to meet the diverse needs of learners. (G)
- 416: Student Teaching, 6-9 hours credit. Meet all qualifications identified in this catalog for teaching level or area of specialization. Student receives appropriate supervised experiences. Total clock hours determined by program. Two hours of seminar. (Pass-Fail).
- 417: Diagnosis and Correction of Reading Difficulties. 11/4-2-3. Preq., Upper Division, EDUC 424, and PSYC 204. Field-based experience in diagnosing reading problems and recommending appropriate instructional interventions for school children. (G)
- 420: Practica in Education. 10-1-3. Preq., Consent of Director of Laboratory Experience. Structured laboratory experiences in area(s) of specialization in education. May be repeated for credit. (Pass/Fail)
- 421: Materials and Methods for Early. Childbood/Elementary GradesMathematics. 0-3-3. Preq., PSYC 204 or EPSY 511. An exploration of content, methodologies, and assessments in the P-3 mathematics program.
- 422: Materials and Methods for Elementary/Middle Mathematics. 0-3-3. Preq., Upper Division and PSYC 204. An examination of the characteristics and objectives of the modern elementary mathematics program combined with experiences in content, methods, and organizations. (G)
- 423: Materials and Methods for Elementary/Middle Language Arts. 0-3-3. Preq., Upper Division and PSYC 204, concurrent enrollment required with EDUC 424. A course to enable students to use current principles, research, methods and materials to teach oral, written and reading communication skills. (G)
- 424: Materials and Methods for Elementary/Middle Reading. 0-3-3. Preq., Upper Division, Reading Methods, and PSYC 204, concurrent enrollment required with EDUC 423. Principles, methods, and research pertaining to the teaching of reading will be emphasized. (G)
- 425: Materials and Methods for Elementary/Middle Science. 0-3-3. Preq., Upper Division and PSYC 204. A course for the study of curriculum, organization, and teaching of elementary/middle science. (G)
- 426: Materials and Methods for Elementary/Middle Social Studies. 0-3-3. Preq., Upper Division and PSYC 204. A course for the study of curriculum, organization, and teaching elementary/middle social studies. (G)
- **431:** Literacy for Emergent Learners. 2-1-3. Preq., Upper Division. Designed to acquaint students with appropriate theory, understanding, and methods necessary for the emergent learner with emphasis on holistic aspects of effective instruction. (G)
- **432:** Kindergarten Education. 1-3-3. Preq., PSYC 204 and Upper Division standing.. Course will involve curriculum planning based on principles of child development. Students will become familiar with the curriculum development process by using curriculum documents including instructional units. (G)
- 433: Special Problems in School Curriculum. 1-4 hours credit. (9). Preq., consent of instructor. Course is designed to deal with selected problems in elementary and secondary schools.
- **434:** Diverse Learners. 2-1-3. Preq., Upper Division. This course provides P-12 teaching candidates with the awareness, knowledge, skill, and

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disposition to identify, assess, teach, accommodate, and manage the instructional needs of diverse learners. (G)

- **435:** Trends and Issues in Education. 2-1-3. Preq., Upper Division. This course provides PK-12 teacher candidates with the awareness, knowledge, skill, and disposition to identify, assess, teach, and accommodate the changing needs of all learners. (G)
- 436: Braille I. 1-3-3. Preq., Upper Division or consent of instructor. Students develop proficiency in reading and writing the Braille literary code while developing an understanding of which visually impaired children benefit from Braille reading instruction. (G)
- 437: Reading/Language Arts Methods, 2-1-3. Preq., Upper Division. Principles, methods, and research pertaining to the teaching of reading and language arts will be emphasized. (G)
- 438: Instructional Design, Strategies, and Assessment. 2-1-3. Preq., Upper Division. This course will be a generic methods course which explores methods and procedures to assess and facilitate student academic growth. (G)
- 440: Behavior Management of Students with Mild/Moderate Disabilities. 3-2-3. This course is an advanced study of the biological, social, psychological, and behavioral factors associated with behavioral disorders. (G)
- 441: Methods of Teaching Kindergarten Children. 1-3-3 Preq., LSCI 201, EDUC 432, PSYC 408, and Upper Division standing... Practical problems in the selection and organization of the curriculum to promote children's learning. Emphasis on planning, selecting equipment, teaching aids, and teaching procedure. (G)
- 445: Keyboarding and Computer Applications in the Classroom. 10-2-3. Preq., Upper Division. A course designed to develop keyboarding skills, techniques, and computer applications for classroom instruction. (G)
- 447: Software Applications for Classroom Instruction. 10-2-3. Preq., EDCI 445 and Upper Division. A course designed to apply kcyboarding skills, techniques, and technology integration to support classroom instruction. (G)
- 448: Instructional Software Design and Development. 10-2-3. Preq., EDCI 447 and Upper Division. A methods course designed for teaching multimedia and web-based instructional design and development. (G)
- 449: Administrative Applications of the Microcomputer in Schools. 0-3-3. A course to provide information concerning the administrative users of computers in schools, hardware/software/consultant resources, and methods for developing effective in-service programs. (G)
- 450: Improving Instruction in Art. 0-3-3. Identification of problems of teaching art. Emphasis upon philosophy, art materials and techniques, evaluation and curriculum planning.
- 451: Software Applications in the Teaching of Reading. 1-3 hours credit.
 (3). The microcomputer is used to prepare software for use in content reading applications and test construction. (G)
- 452: Administration of Instructional Materials Centers. 0-3-3. Techniques organization, management and selection of printed and non-book materials in multi-media instructional materials centers.
- 453: Foreign Language Teaching Methods. 0-3-3. Preq., 12 hours of a foreign language. Study of a broad range of foreign language teaching methods; examination of underlying theories and practical applications. Also listed as FLNG 453. (G)
- **454:** English Grammar in ESL Teaching. 0-3-3. Preq., Senior standing. An analysis of English grammar specifically for developing instructional techniques used in teaching grammar for communicative competence in ESL. Also listed as ES1. 454.
- 455: Improving Instruction in the Middle Grades. 0-3-3. A study of the history, philosophy, and nature of the middle school with emphasis on early adolescent physical and educational development and social/emotional problems.
- **456:** Materials and Methods in Teaching Mathematics. 0-3-3. Preq., EDUC 480 and MATH 241, Upper Division standing. The nature of mathematics and methods of teaching. Special emphasis will be placed on the interpretation and solving of reading problems. (G)
- 457: Materials and Methods in Teaching English. 0-3-3. Preq., EDUC 480, Upper Division standing. The student will be introduced to the best techniques of organizing and presenting English material. (G)
- 458: Materials and Methods in Speech, Language and Hearing in the Public Schools. 0-3-3. Practical problems in the identification, diagnosis, and treatment of communication disorders in school children, with emphasis on materials, organization of therapy program and teaching procedures. (G)

- **459:** Materials and Methods in Teaching Social Studies. 0-3-3. Preq., EDUC 480, Upper Division standing. An examination of the character and purpose of social studies is followed by presentation of appropriate teaching suggestions. (G)
- **460:** Internship in Teaching, 35-0-1. Preq., Upper Division and permission of Director of Professional Experiences (Pass/Fail). Teacher candidates meet the student teaching requirement while employed in a teaching position. Supervision by the school principal and university supervisor are required. (G)
- 461: Performance Based Seminar I. 0-2-2. Preq., concurrent enrollment in EDCI 460. Teacher candidates will meet weekly to address topics responding to observed needs of candidates. (G)
- 462: Performance Based Seminar II. 0-2-2. Preq., concurrent enrollment in EDCI 460. Teacher candidates will meet weekly to address topics responding to observed needs of candidates. (G)
- 463: Performance Based Seminar III. 0-2-2. Preq., concurrent enrollment in EDCI 460. Teacher candidates will meet weekly to address topics responding to observed needs of candidates. (G)
- 464: Materials and Methods in Teaching Science. 0-3-3. Preq., EDUC 480, Upper Division standing. A careful examination of the most advanced methods of organizing the presenting materials in sciences for the secondary school. (G)
- 465: Materials and Methods of Teaching Vocal Music. 0-3-3. Examines problems which confront the teacher and supervisor of vocal music; e.g., program building, contests, festivals, requisitions, grading, materials, scheduling, and rehearsing.
- 466: Adaptive Technology for the Visually Impaired. 1-1-1. Preq., Upper Division or consent of instructor. Through demonstrations, hands-on projects, and various guest lectures, student learn to use state of the art technology designed for the blind and/or visually impaired learner. (G)
- 467: Materials and Methods in Teaching Speech. 0-3-3. Preq., EDUC 480, Upper Division standing. An examination of materials and methods for teaching speech in elementary and secondary schools. (G)
- 470: Curriculum Development and Design for ESL. 0-3-3. Preq., Senior standing. Selection of objectives, content, task implementation, and pedagogy for teachers of English as a Second Language. Also listed as ESL 470.
- 471: Classroom Management. 1-3-3. Course emphasizes the application of concepts, principles, and skills necessary for designing, implementing, evaluating, and revising plans for classroom management. (G)
- 472: Transition and Vocational Procedures. 2-1-3. Prcq., Upper Division. Emphasizes transition and vocational models, curricula, strategies, and services. Field-based experiences focus on career exploration, planning, inter-agency collaboration, research, and family involvement. (G)
- 473: Educational Strategies and Methods for Students with Mild/Moderate Disabilitics. 2-1-3. Preq., Upper Division. Procedures, methods, materials, and research-based strategies for students with disabilities (1-12) with emphasis on accommodations, modifications, and Individualized Education Programs (I.E.P.s). (G)
- **475:** Foundations of Education. 0-2-2. An interdisciplinary survey of the development of educational institutions and practices with particular focus upon the influences of social, legal, historical and philosophical thought. (G)
- 477: Teaching Methods for Effective Instruction of Science and Social Studies. 2-1-3. Preq., Upper Division and PSYC 204. A course for the study of curriculum organization, instructional strategies and materials, and research findings related to PK-8 science and social studies. (G)
- 480: Principles of Teaching. 0-3-3. An investigation of the principles of teaching as related to the student, curriculum, and the teaching-learning process. (G)
- 481: Inclusion Models and Procedures. 6-1-3. A field-based exploration of inclusion models, pupil appraisal, and curriculum designs. (G)
- 482: Strategies and Procedures for Serving Young Children with Special Needs. 0-3-3. Preq., EDCI 400 or EDCI 504. Planning, procedures, strategies/assessments for young children with special needs and their families. (G)
- 483: Psycho-educational Assessment of Exceptional Students. 10-2-3. An examination of administration and interpretation of basic tests (standardized and criterion-referenced) to make appropriate assessment decisions regarding exceptional students. (G)
- **489:** Special Topics. 1-4 hours credit (9). Selected topics in an identified area of study in the College of Education. May be repeated for credit. (G)

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- **490:** Introduction to Adult Education. 0-3-3. A study of the history, philosophy, objectives and nature of adult and continuing education; emphasis given to the adult as a learner. (G)
- **491:** Reading in Adult Education. 0-3-3. Examines the characteristics of the functionally illiterate adult. (G)
- **492:** Materials and Methods in Adult Education. 0-3-3. Examination of characteristics unique to the adult with emphasis on analysis of the methods and materials available for working with adults. (G)
- 493: Cross-Cultural Communication for ESL Teaching. 0-3-3. Preq., Senior standing. Concepts of culture and the relationship of language acquisition to the cultural setting with specific application to the teaching of ESL. Also listed as ESL 493.
- **494:** Special Topics. 1-4 hours credit (9). Selected topics in an identified area of study in the College of Education. May be repeated for credit. (G)
- 495: Social and Psychological Aspects of Blindness. 1-2-3. Prcq., Upper Division or consent of instructor. Course explores social and psychological implications of blindness and provides an overview of current and historical practices in the rehabilitation and education of blind individuals. (G)
- **499:** Instructional Strategies and Materials for Teaching Blind Students. 0-3-3. Preq., Upper Division or consent of instructor. Methods and materials for teachers teaching blind children to read. Students will increase personal Braille reading speed, proficiency, and knowledge of the literary Braille code. (G)
- 501: Problems in Teaching Elementary Science. 0-3-3. A survey of research bearing on problems of organizing, developing, and evaluating the curriculum in science.
- 502: Psychoeducational Assessment of Exceptional Students. 2-1-3. Assessment and interpretation procedures for administering and interpreting tests (standardized and criterion-referenced), and making appropriate assessment decisions regarding students with M/M disabilities.
- 503: Problems in Teaching Reading. 0-3-3. A study of problems in the teaching of reading in elementary schools. Special emphasis will be given to the development of a reading program, diagnosis, and care of individual needs of pupils, use of materials, research findings, and their applications to methods of instruction.
- 504: Human Exceptionalities: Seminar. 1-2-3. Provides a survey (including legislation, definitions, characteristics, identification, and educational procedures) of student with various exceptionalities.
- **506:** Improving Instruction in English. 0-3-3. A study of the methods of teaching usage and literature, analyses of curricula, selection of materials, research in recent studies in the teaching of English. Special attention will be given to planning units of work, to creative teaching and to a consideration of the needs of youth in area of reading, writing, speaking, and listening.
- 507: Improving Instruction in High School Mathematics. 0-3-3. The place of mathematics in general education and in specialized fields; professionalized subject matter; modern methods of teaching. Students will become familiar with teaching aids, long-unit assignments, and the construction and use of standardized and teacher-made tests.
- 508: Improving Instruction in Science. 0-3-3. A study of present-day trends in the teaching of science, content, organization of materials, methods of instruction, student activities, objectives, observation trips, use of textbooks, laboratory work and equipment, evaluation, preparation of unit and lesson plans, projects and student guidance.
- 509: Improving Instruction in the Social Studies. 0-3-3. A study of the selection and organization of subject matter in social studies, the planning of student activities, the use of instructional materials. Students will prepare unit and lesson plans utilizing community resources.
- 512: Philosophy of Education. 0-3-3. Designed to trace some of the more important educational problems as they have been affected by social and political facts of history, by contributions of leading educational theorists and by institutional practice.
- 513: Philosophy of Music Education. 0-3-3. A review of the historical development of music education in America and an analysis of trends in music education from 1930 to the present time.
- 514: The Learner in Adult Education. 0-3-3. The learner in adult education programs will be examined. Emphasis will be given to the teachinglearning process and the uniqueness of adult learning situations.
- 515: Administration and Supervision of Adult Education. 0-3-3. General administrative processes, emphasizing program planning and evaluation.

- 516: Seminar: Crucial Issues in Secondary Education. 0-3-3. Selected readings and research on current, crucial issues in secondary education. Topics will vary from quarter to quarter.
- 518: History of American Education. 0-3-3. A survey of the development and growth of elementary, secondary, and higher education with emphasis upon American education.
- 519: Contemporary Issues in Adult Education. 0-3-3. Investigates current problems and future trends in the broad field of lifelong learning.
- 520: Practicum for Graduate Students. 4-0-3 (9). (Pass/Fail). Structured laboratory experiences in area(s) of specialization in education. May be repeated for credit up to 9 hours.
- 521: Assessment of Students and Programs. 0-3-3. Diagnosing and evaluating students and programs within the framework of instruction; emphasis on problem solving in order to improve learning and teaching.
- 522: Instructional Theory and Practice. 0-3-3. Exploration and investigation of methods and paradigms of instructional theory and delivery; emphasis on creative application of instructional technology and processes that create learning opportunities.
- 524: Supervision of Student Teaching. 0-3-3. Designed for experienced teachers who are interested in serving as supervising teachers in teachereducation programs.
- 526: Curriculum Development. 0-3-3. Application of theory and research of curriculum; issues and trends in curriculum; strategics and techniques for planning curriculum; value and empirical bases for curriculum decisions.
- 528: Evaluating Pupil Growth. 0-3-3. Methods and procedures in test development, administration, validation, and interpretation.
- 529: Educational Planning and Accountability. 0-3-3. A survey of planning and accountability models in education while emphasizing the essential principles and skills necessary for designing, implementing, and evaluating education plans.
- 533: Problems in Education. I-4 hours credit (9). Preq., Consent of the instructor. An advanced course dealing with special problems in the different fields of education.
- 534: Diagnosis and Evaluation of Reading Difficulties. 0-3-3.Preq., EDUC 503. Causes, diagnosis, evaluation and correction of reading disabilities.
- 537: Seminar, Problems in Reading. 0-3-3. Preq., consent of instructor. Recent issues, theories, studies and research findings in teaching reading.
- 539: Advanced Laboratory Practicum in Reading. 7-1-3. Supervised internship in reading.
- 540: Behavior Management of Students with Mild/Moderate Disabilities. 1-2-3. This course is an advanced study of the biological, social, and psychological factors in behavior disorders.
- 541: Research Seminar in Methodology & Teaching. 1-2-3. Designed to provide students opportunities to examine educational research on methodology and teaching, design a research study, and complete and present a research paper.
- 542: Statistical Methods in Education. 0-3-3. A study of the statistical methods used by school personnel in the study of educational problems.
- 543: Adjudication of Instrumental Ensembles. 0-2-2. This course examines in detail a philosophy of the phenomenon of adjudication. It includes practical aspects of evaluation.
- 545: The New Media in Education. 2-2-3. A study of the uses of new technology with some practical experience in the use of these educational aids.
- 546: Instructional Media Design and Development. 2-2-3. An investigation of the systems approach to instructional media design, organization, and application.
- 551: Research and Thesis. Three hours or multiples thereof. Maximum credit allowed is six hours.
- 561: Research Design and Analysis. 0-3-3. Preq., EDUC 542. A study of the techniques involved in the analysis of selected experimental designs in educational research.
- 562: Elementary School Curriculum. 0-3-3. A study of principles of curriculum construction in the elementary school. Emphasis is upon selection, organization and evaluation of materials suitable to the elementary school.
- 563: Secondary School Curriculum. 0-3-3. A study of the principles of curriculum development in the secondary school.
- 564: The Reading Process. 0-3-3. An analysis of the physiological, psychological, and neurological foundations of the reading process.

- 566: Improving Instruction in Remedial Education. 2-2-3. Focuses on improvement of college level instruction at the remedial/developmental level.
- 567: Teaching Methods for Language Arts. 0-3-3. Provides an in-depth study of the elements of lesson planning and design with emphasis in the teaching of written and oral communication (other than reading).
- 568: Teaching Methods for Effective Instruction of Reading. 0-3-3. An indepth study of reading programs and materials, diagnosis and instruction for individual needs, research findings, and their applications to methods of instruction.
- 569: Teaching Methods for Effective Instruction of Mathematics and Educational Technology. 0-3-3. An in-depth study of mathematics curriculum, instructional methods and materials, and research findings with an investigation of technology usage in the content fields.
- 570: Field Problem and Internship. 0-3-3. Preq., approval of the Dept. Head, Computer Information Systems and Analysis. The provision of supervised professional activities in business education directed by the business education faculty. Selection of one major area of business education for intensive study in terms of methods, materials, research, and curricular problems.
- 571: Change Theory & Innovation in Education. 0-3-3. Preq., Graduate Standing. A study of change theory and how varying factors and circumstances influence the extent of success or failure of planned innovations in public education.
- 572: Educational Foundations and Public Policy. 0-3-3. An analysis of the links between educational policy and school history with particular emphasis on the historical, philosophical, social, and legal foundations of education.
- 573: School Principles and Curriculum. 0-3-3. An analysis of the curriculum and principles of learning with additional emphasis on multicultural education, "at risk" students, and classroom management.
- 574: Teaching Methods for Effective Secondary School Instruction. 0-3-3. An examination of research, resources, and advanced techniques of teaching in secondary schools.
- 575: Practicum in Education. 10-1-3. (Pass-Fail) Preq., Consent of Director of Laboratory Experiences. Structured laboratory experiences in education.
- 576: Internship in Education. 9 hours credit. Advanced internship in area(s) of specialization. Minimum of 180 clock hours in direct teaching.
- 577: Teaching Methods for Effective Instruction of Science and Social Studies. 2-1-3. A course for the study of curriculum organization, instructional strategies and material, and research findings related to PK-8 science and social studies.
- 578. Braille II. 1-1-2. Braille II introduces Nemeth (math), music, and computer Braille codes while increasing students' speed and accuracy in reading, Brailling, transcribing, and proofreading Braille materials.
- 579. Developmental Aspects of Blindness. 1-3-3. This course emphasizes knowledge of physical, social, and emotional development of blind children including acquisition of motor, language, and cognitive skills, birth through adulthood.
- 580: Specialist Research and Thesis. Three hours credit or multiples thereof. Maximum credit allowed is six hours.
- 583: Normal and Impaired Visual Functioning. 1-3-3. Teaches basic eye anatomy, functional vision assessments, common eye diseases and their implications and intervention strategies for blind children and adults.
- 584: Orientation and Mobility for Tcachers of Blind Students. 2-1-3. Teaches basics of efficient, independent, non-visual travel; movement for young blind children; multi-handicapped blind children and contemporary philosophical issues.
- 589: Special Topics. 1-4 hours credit. Preq., graduate standing. Selected topics in an identified area of study in the College of Education.
- 591: National Board for Professional Teaching Standards Trends and Issues I. 0-3-3. Experiences and reflections about teaching and learning presented to help participants begin the portfolio preparation process for National Board Certification. Techniques about videoing the classroom will be provided along with information to assist teachers as they prepare for the assessment exam required for certification.
- 592: National Board for Professional Teaching Standards Trends and Issues II. 0-3-3. (Pass/Fail). Preq., EDCI 591. This course is designed to assist all teachers (PK-12) with preparation for certification as a National Board Certified Teacher.
- 594: Special Topics. 1-4 hours credit. Preq., graduate standing. Selected topics in an identified area of study in the College of Education.

EDUCATION LEADERSHIP (EDLE)

- 520: Practicum in Administration and Supervision. 40-0-3. (PASS/FAIL). Structured field-based experiences in educational administration and supervision.
- 527: Public School Organization and Administration. 0-3-3. Introduction to national, state, and local administration; public school finance; principles and practices of administration; administration of special services; national and state legal aspects of public school administration, and administration of school-community relations.
- 550: Supervision of Child Welfare & Attendance. 0-3-3. Preq., Graduate status. Principles and practices of census, child welfare, and attendance for the supervisor of child welfare and attendance or visiting teacher.
- 552: Supervision of Instruction in Elementary and Secondary Schools. 0-3-3. A course designed to aid prospective elementary and secondary administrators in theories, principles, and concepts of supervision.
- 553: The Educational Leader and Technology Supervision. 0-3-3. Preq., ECT 445 or equivalent skills. This course is designed to enable aspiring education administrators to plan, manage, lead, and sustain effective technology implementation in schools.
- 555: School and Community Relations. 0-3-3. Principles of school relations applied to education and the development of school and community understandings.
- 556: School Law. 0-3-3. State and national aspects and implications of public school law. Special attention is given to cases in both state and federal courts.
- 557: Elementary School Principalship. 0-3-3. Duties and responsibilities in organization, leadership, administration and supervision in the elementary school.
- 558: Secondary School Principalship. 0-3-3. Duties and responsibilities in organization, leadership and administration of the secondary school.
- 559: School Finance. 0-3-3. An in-depth survey into the financial and business management in public education.
- 560: School Personnel Administration. 0-3-3. A course to equip the new principal to administrate all school personnel.
- 565: Differentiated Supervision. 0-3-3. Focuses on improvement of classroom instruction through the building of the relationship between supervision and teaching.
- 593: Leading with Technology for Administrators. 0-3-3. This course is designed to support school administrators in understanding and utilizing technology to impact overall instructional leadership and school improvement.

EDUCATIONAL PSYCHOLOGY (EPSY)

- 472: Vocational Procedures and Practices for Exceptional Students. 0-3-3. Experience-based vocational education; process-oriented curriculum development; planned learning activities; formal assessment procedures; utilization of community resources; occupational preparation; review of exemplary programs. (G)
- 475: Advanced Procedures in Special Education. 0-3-3. Preq., approval of instructor. Individually supervised and systematically organized observation and participation in evaluative and educational procedures with exceptional students. (G)
- 480: Introduction to Orientation and Mobility. 0-3-3. Provides an examination and application of the fundamental principles and theories of orientation & mobility. Students will progress through a graduated travel curriculum. (G)
- 502: Psychosocial and Educational Appraisal of Exceptional Students. 7-1-3. Preq., approval of instructor. Administration and interpretation of specialized individual tests, infant development scales, non-verbal tests for linguistically impaired, verbal tests for sensory handicaps, and accelerated academic assessment.
- 504: Human Exceptionalities Seminar. 0-3-3. An overview of special education emphasizing social, physical, emotional, and educational components of exceptional students including history and current legislation.
- 511: Advanced Educational Psychology. 0-3-3. An in-depth study of the major theories of learning with an emphasis on reviewing contemporary research relating to human learning and the application of psychological principles to instructional technology.
- 512: Consulting Strategies for Assessment Teachers. 0-3-3. Preq., SPED 490. Development of teacher and parent consultation skills, coordination and interaction of the education assessment teacher with classroom programs, and available community resources.

- 515: Gifted/Talented Individuals. 0-3-3. The nature and needs of exceptionally able students with emphasis on curriculum adjustment and research in the field.
- 516: Gifted/Talented Psychoeducational Materials and Methods. 0-3-3. Preq., consent of area coordinator. Process of materials utilization and development for teacher of gifted/talented students, including procedures for implementing creativity, problem solving activities, and higher levels of cognition.
- 550: Field Work in Human Exceptionalities. 12-0-3 (6). Internship in the application of principles of learning and child development from a behavioral approach to the educational needs of exceptional students.
- 561: Diagnostic/Prescriptive Psychoeducational Strategies and Materials for Exceptional Students. 0-3-3. Individualized interfacing of learning characteristics of exceptional students with curriculum requirements and environmental structure; emphasis on individualized prescriptive strategies and programs.
- 581: Blindness Rehabilitation Systems and Issues. 0-3-3. Presents an overview of rehabilitation history, concepts, programs and services; professional responsibilities and ethics with field experience utilizing techniques for working with rehabilitation agencies, school systems, organizations and public or private programs serving blind and visually impaired individuals.
- 583: Advanced Orientation & Mobility. 0-3-3. Provides instruction for teaching techniques of independent mobility to individuals who are blind/visually impaired. Curriculum includes strategies and techniques for rural environments, special travel situations, and use of public transportation and applications to daily living vocational environments. Special techniques used by O&M instructors who are blind/visually impaired are emphasized.
- 584: Internship in Orientation & Mobility. 0-3-3 (6). Preq., enrollment in Educational Psychology (Visual Impairments - Orientation & Mobility) program and EPSY 583. Intensive experience in teaching Orientation and Mobility skills to visually impaired students. Field experience at the Louisiana Center for the Blind, Ruston, LA. (Pass/Fail)
- 599: Master's Thesis. 0-3-3. (6 hours minimum). Original research conducted under the supervision of a departmental faculty member in the student's program area. Student must be enrolled whenever university facilities or faculty are used. (Pass/Fail).

ELECTRICAL ENGINEERING TECHNOLOGY (ELET)

- 100: Introduction to Electrical Engineering Technology. 3-0-1. A survey of topics to introduce the student to the profession, the department and the curricula.
- 170: Basic Circuit Theory. 0-3-3. Preq., Math 101 and concurrent registration in ELET 171. Introduction to DC circuit theory; loop equations, node equations and major network theorems. Single time constant transients.
- 171: Basic Circuit Lab. 3-0-1. Concurrent registration in ELET 170. Laboratory companion to ELET 170.
- 180: AC Circuits. 0-3-3. Preq., ELET 170, Coreq., MATH 112. Concurrent registration in ELET 181. An extension of the concepts developed in ELET 170, to include alternating current circuits for sinusoidal steadystate analysis.
- 181: AC Circuits Laboratory. 3-0-1. Concurrent registration in ELET 180. Laboratory companion to ELET 180.
- 196: AC & DC Analysis. 0-2-2. Preq., MATH 101, 112, and some experience with AC and DC Circuits. Mathematical principles with underlie circuit analysis. Mesh and nodal analysis, network theorems, Kirchoff's laws, Thevenin's and Norton's equivalents for both AC and DC circuits.
- 197: Electronic Analysis. 0-3-3. Preq., ELET 180, and some experience with electronic circuits transistors and operational amplifiers. Mathematical principles which underlie electronic analysis. Amplifiers and feedback circuits.
- 198: Instrumentation. 0-2-2. Preq., ELET 180 or 196, and some experience with instrumentation circuits. Mathematical principles which instrumentation.
- 260: Electronics. 0-3-3. Preq., ELET 180. Concurrent registration in ELET 261. An introductory treatment of solid state devices, concentrating on the ordinary diode and the bipolar and field effect transistors.
- 261: Electronics Laboratory. 3-0-1. Preq., Concurrent registration in ELET 260. Introductory electronics laboratory, a companion to ELET 260.
- 270: Instrumentation. 0-3-3. Preq., ELET 180. Basic measuring devices, meters, bridges, etc. An introduction to the methods used in making accurate measurements.

- 271: Instrumentation Laboratory. 3-0-1. Preq., Concurrent registration in ELET 270. Laboratory for the study of electrical and electronic controlled instrumentation.
- 272: Electronics Applications. 0-3-3. Preq., ELET 260. Concurrent registration in ELET 273. Continuation of ELET 260. The study of semiconductor devices imbedded in passive RLC networks, and their applications in practical situations.
- 273: Electronics Applications Laboratory. 3-0-1. Concurrent registration in ELET 272. Training in the construction and troubleshooting of solid state electronics circuits.
- 274: Computer Programming. 0-1-1. The logic of computer solutions to problems. Basic programming utilizing a higher level programming language. Applications of computer usage in Electrical Engineering Technology. Also listed as ELEN 243.
- 275: Computer Programming. 0-1-1. Preq., ELET 274. A continuation of ELET 274. Applications of computer usage in Electrical Engineering Technology.
- 280: Electrical Power. 0-3-3. Preq., ELET 180. A survey of the power field; the aims, problems and techniques. Future trends.
- 284: Computers. 0-3-3. Preq., ELET 260. Concurrent registration in ELET 285. Digital and analog computer systems, circuits, and maintenance.
- 285: Computers Laboratory. 3-0-1. Preq., Concurrent registration in ELET 284. Practical laboratory exercises in computer circuitry and maintenance techniques.
- 360: Electrical Power, 0-3-3. Preq., ELET 180 and 270. Concurrent registration in ELET 361. Study of techniques and solution to fundamental problems in the electric power industry. Emphasis on practical applications.
- 361: Electrical Power Laboratory, 3-0-1. Concurrent registration in ELET 360. Companion laboratory to 360.
- 370: Integrated Circuits. 0-3-3. Preq., ELET 260. Concurrent registration in ELET 371. Applications of integrated circuits, both linear and discrete, in a variety of amplifiers, switching circuits and functional operations.
- 371: Integrated Circuits Laboratory. 3-0-1. Concurrent registration in ELET 370. Practical laboratory work in the utilization of integrated circuits in active networks, both linear and discrete.
- **390: Electrical Drafting.** 0-3-3. A course in mechanical drafting with emphasis on schematic diagrams, wiring diagrams, circuit boards, and electrical standards and codes.
- 460: Communication Circuits. 0-3-3 Preq., ELEN 232 or ELET 370. The study of systems used in communicating data. LANs and WANs.
- 461: Communication Circuits Laboratory. 3-0-1. Companion laboratory to lecture ELET 460. Installation and administration of a LAN..
- 465: Circuit Design and Fabrication. 3-1-2. Preq., ELET 370 and ELET 390. A student project course in design, layout and fabrication of printed circuits.
- 468: Electronic Motor Control. 0-3-3. Preq., ELET 260, 360. Concurrent registration in ELET 469. Application of solid-state devices to the control of power in static and dynamic energy conversion systems. Methods of control in DC and AC systems.
- 469: Electronic Motor Control Laboratory, 3-0-1. Preq., Concurrent registration in ELET 468. Companion laboratory to ELET 468.
- 470: Control Systems. 0-3-3. Preq., ELET 260. Concurrent registration in ELET 471. Introductory control systems. A survey of the field, with emphasis on the problems, current solutions, and analytical methods.
- 471: Control Systems Laboratory. 3-0-1. Concurrent registration in ELET 470. Field trips and laboratory experiments in principles of automatic control systems.
- 472: Seminar. 0-1-1. Preq., senior standing. Discussion of employment, current job market, preparation of personal data sheets, application forms, other placement activities.
- **490:** Special Problems. 1-4-(9) hours credit. Preq., consent of instructor. A course to be arranged for the purpose of covering a selected topic of current importance or special interest.

ELECTRICAL ENGINEERING (ELEN)

- 223: Electrical Circuits II. 3-2-3. Preq., ELEN 221 and credit or registration in MATH 242. Transient analysis of source-free and high order systems, complex frequency, and resonance phenomena. Computer solution of circuits. Electrical instruments, devices, and design for measurements in electrical networks.
- 232: Introduction to Digital Design, 0-2-2. Introduction to digital design techniques, Boolean algebra, combinational logic, minimization

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techniques, simple arithmetic circuits, programmable logic, sequential circuit design, registers and counters.

- 241: Introduction to Microcomputers. 0-3-3. Introduction to computer organization and operation, data representation and manipulation, assembly language programming, register level operations, peripheral device interfaces.
- 242: Introduction to Microprocessors. 3-2-3. Preq., ELEN 232. Introduction to microprocessor organization and operation, data manipulation, assembly language programming, register level operations, and device interfacing.
- 243: Computer Programming. 0-1-1. The logic of computer solutions to problems. Basic programming utilizing a higher level programming language. Applications of computer usage in Electrical Engineering. Also listed as ELET 274.
- 311: Introduction to Electric & Magnetic Fields. 0-2-2. Preq., PHYS 202. Vector analysis. Energy and potential. Static magnetic fields. Magnetic circuits and inductance.
- 321: Linear Systems. 0-3-3. Preq., ELEN 222 and credit or registration in MATH 245. Fourier Series. Fourier Transform. Laplace Transform. Convolution and the system function. Filters. State variable representation and solution.
- 334: Solid State Electronics. 0-3-3. Preq., MATH 244, and PHYS 202. Fundamentals of solid state electronic materials and devices, emphasizing semiconductors and principles of operation of ULSI devices.
- 335: Analog Electronics. 3-2-3. Preq., ENGR 221. Diode and transistor characteristics and models. Design of power supplies, single- and multiple-stage amplifiers. Design and application of operational amplifiers.
- 381: Electrical Machinery. 0-3-3. Preq., ELEN 311. Electromagnetic energy storage and conversion. Principles of electromechanical energy conversion. Power transformers. Design of electromechanical devices. Analysis of rotating machines.
- **386: Electrical Equipment for Buildings.** 0-3-3. Preq., MATH 220 and PHYS 210. Not available for electrical engineering majors. A study of the problems of the design and application of electrical wiring and lighting systems for building.
- 402: Electrical Design. 3 hours credit. Preq., consent of instructor. Closely supervised design of electrical engineering problem. Opportunity for individual investigation, design, and fabrication of electrical apparatus.
- 403: Electrical Design. 1 hour credit. Preq., consent of instructor. Closely supervised design of electrical engineering problem. Opportunity for individual investigation, design and construction of electrical apparatus or system.
- 404: Electrical Design. 2 hours credit, Preq., consent of instructor. Closely supervised design of electrical engineering prohlem. Opportunity for individual investigation, design, and construction of an electrical apparatus or system.
- 406: Electrical Engineering Design I. 3-1-2. Preq., ELEN 331, 339, 389 and senior standing. Design problems requiring the integration of circuits, electronics, field theory, controls, energy conversion, power systems, and economics.
- 407: Electrical Engineering Design II. 3-0-1. Preq., ELEN 406. A laboratory for the continuing development of the senior design project started in ELEN 406.
- 408: Electrical Engineering Design III. 3-0-1. Preq., ELEN 407. A laboratory for the continuing development and implementation of the senior design project started in ELEN 406 and continued in ELEN 407.
- 411: Electric and Magnetic Fields. 0-3-3. Preq., ELEN 311, and MATH 244. Capacitance. LaPlace's Equation. Maxwell's equations. Time-varying electromagnetic fields. Plane waves. Transmission lines. Design of impedance-matching devices. (G)
- 412: Signal Transmission. 0-3-3. Preq., ELEN 411. Transmission lines and distributed parameters. Wave-guides, traveling electromagnetic wave analysis, and boundary valve problems. Impedance matching, graphical solutions, and microwave networks. Laboratory applications and design. (G)
- 422: Introduction to Discrete Time Systems. 0-3-3. Preq., ELEN 321. Discrete signals, LTI systems, discrete Fourier analysis, discrete filters, sampling, Z-transforms. (G)
- **435:** Electronics. 0-3-3. Preq., ELEN 335. Feedback amplifiers, integrated circuit analysis, operational amplifier applications in the areas of nonlinear circuits, active filters, switching circuits, controls, and communications. (G)

- 437: Microfabrication Principles. 0-3-3. Preq., MATH 244, and PHYS 202. Fundamentals of microfabrication processes necessary for the realization of ULSI and other technologies. (G)
- 438: Microelectronic Applications & Device Fabrication. 3-2-3. Microfabrication process integration and applications to the realization of ULSI and other technologies. (G)
- 441: Computer Systems Interfacing. 3-2-3. Preq., consent of instructor. Topics useful in integrating multi-component systems of manufacturing with computer-based monitoring, control and communication. (G)
- **450:** Selected Topics. 0-2-2. Preq., permission of instructor. Work in an area of recent progress in electrical engineering of immediate interest or need. Topic selected will vary from term to term.
- **451:** Special Topics. 0-3-3. Preq., consent of instructor. Study in an area of recent progress in electrical engineering of immediate interest or need. Topic selected will vary from term to term. (G)
- 461: Communication Systems. 0-3-3. Preq., ELEN 321 and 335. Evaluation and design of communication systems utilizing Fourier and randomsignal analysis. Amplitude, frequency, pulse, pulse-code modulation and demodulation. Multiplexing. (G)
- 462: Digital Communication Systems. 0-3-3. Preq., ELEN 461. Analysis and design of digital communication systems. Signals and spectra. Digital base band and carrier systems, digital networks, introduction to emerging technologies. (G)
- 463: Optical Communication Systems. 0-3-3. Preq., ELEN 411. Optical waveguides, mode theory and ray optics. Transmission losses and signal distortion. Optical sources, detectors and transmission link analysis.
- 469: Communications Laboratory. 3-0-1. Coreq., ELEN 461. Communications laboratory to accompany ELEN 461. Fourier Spectrum, AM systems, FM systems, and Time Division Multiplex.
- 471: Automatic Control Systems. 0-3-3. Preq., ELEN 321, MATH 244. Analysis and design of linear feedback systems. Mathematical modeling. Transfer functions and signal-flow graphs. State variable analysis. Time domain analysis and design of linear control systems. Frequency domain analysis and design of linear control systems. (G)
- 472: Introduction to Digital Control. 0-3-3. Preq., ELEN 321, 471. An introduction to the theory of linear discrete control systems. Time-domain analysis of discrete systems. Z-transform. Sampling. Discrete-time signal analysis. Sampled data control systems. (G)
- 479: Automatic Control Systems Laboratory. 3-0-1. Credit or registration in ELEN 471. Laboratory design, simulation and testing of automatic control systems. (G)
- 481: Power Systems, 0-3-3. Preq., ELEN 381. Per-unit notation. The design and analysis of balanced power systems including load flow, economic dispatch, short circuit and over current device coordination and control of watts and vars. (G)
- **482:** Power Systems Design and Analysis. 0-3-3. Preq., ELEN 481. Review of three-phase sbort circuits. Symmetrical components. Analysis of power systems in the transient state. Control of frequency and power flow in interconnected systems. (G)
- 483: Motor Control. 0-3-3. Preq., ELEN 481. Speed control. Reduced voltage starting techniques. Classical relay ladder logic. Modern programmable logic control device applications. Power electronic applications. (G)
- **489: Electrical Energy Conversion Laboratory.** 3-0-1. Preq., ELEN 381; Coreq., registration in ELEN 481. Laboratory design and testing of basic electromechanical devices and machines.
- 491: Machine Vision. 3-2-3. Preq., Senior or Graduate status and permission of instructor. Machine Vision systems applied to Manufacturing. Content includes lighting, optics, vision hardware and software. (G)
- 512: Electromagnetic Waves. 0-3-3. Preq., ELEN 411. Propagation, reflection and refraction of electromagnetic waves. Guided waves and power flow. Boundary-value problems.
- 513: Antennas and Radiation. 0-3-3. Preq., ELEN 512. Channel effects and types of propagation. Theory and practice in antenna design.
- 533: Optoelectronics. 0-3-3. Preq., Permission of instructor. Modulation of light, display devices, lasers, photodetectors, optical transistors, logic gates, Waveguides, transmitter and receiver design.
- 535: Advanced Topics in Microelectronics. 0-3-3 (6). Preq., consent of instructor. May be repeated with change in subject matter. Selected topics of current research interest in the field of microelectronics.
- **537:** Advanced Microfabrication with Computer-Aided Design. 0-3-3. Preq., ELEN 438. Advanced microfabrication process development and integration with the aid of computer process modeling and simulation.

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- 538: Advanced Microelectronic Devices with Computer-Aided Design. 0-3-3. Preq., ELEN 537. Principles of operation and analysis of advanced microelectronic devices with the aid of computer device modeling and simulation.
- 543: Microcomputer Design. 0-3-3. Preq., ELEN 331 and 442, Study of microcomputer design. Microcomputer Development System and Logic Analyzer. Design of control processors.
- 545: Computer Architecture. 0-3-3. An introduction to current machine architectures. Topics include memory design, pipeline processing, vector machines, multiprocessor architectures and parallel algorithm design techniques and evaluation methods.
- 550: Special Problems. 1-4 semester hours. Advanced problems in electrical engineering. The problems and projects will be treated by current methods used in professional practice.
- 551: Research and Thesis in Electrical Engineering. Registration in any quarter may be for three semester hours credit of multiples thereof. Maximum credit allowed is six semester hours.
- 555: Practicum. 0-3-3 (6). Preq., 12 semester hours of graduate work. Analytical and/or experimental solution of an engineering problem; technical literature survey required; development of engineering research techniques. (Pass/Fail)
- 557: Special Topics: Electrical Engineering. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of electrical engineering. May be repeated as topics change.
- 561: Random Signals and Systems. 0-3-3. Preq., ELEN 461 and 471. Random signal analysis. Correlation and power spectrum analysis. Stochastic communication and control systems.
- 565: Digital Signal Processing. 0-3-3. Preq., ELEN 461. Review of discrete linear signals and systems theory. Design/Implementation of FIR and IIR digital filters. Quantization and finite word length effects. Spectrum estimation.
- 566: Estimation Theory. 0-3-3. Preq., ELEN 561. Estimation, based on noise-corrupted observations, of unknown system states. Maximumlikelihood and least square estimation; matched filters. Wiener and Kalman filtering.
- 572: Digital Control Systems I. 0-3-3, Preq., ELEN 471, Sampling Theory, Date reconstruction. Z-transforms. Stability analysis. Time-domain analysis. Frequency domain analysis. Introduction to Digital Control Systems
- 573: Digital Control Systems II. 0-3-3. Preq., ELEN 572. Review of Ztransforms. State variable techniques. Controllability and observability. Design of digital control systems with state variable techniques. Digital state observer. Microprocessor control.
- 581: Computer Applications to Power Systems. 0-3-3. Preq., ELEN 481. The study of algorithms for power network matrices, three-phase networks, fault, load flow and stability problems solution by computer methods.
- 582: Motor Control and Power Electronics. 0-3-3. Preq., ELEN 381. Electronic and electromagnetic motor control devices; programmable controllers; motor protection; solid state power device application to DC and AC power conversion.
- 583: Electric Power Distribution System Design. 0-3-3. Preq., ELEN 481. Design of utility distribution systems. Substation layout, switching devices, aerial and underground lines and cables, code requirements, development of standards.
- 584: Electromechanical Energy Conversion. 0-3-3. Preq., ELEN 381. Equations of motion of electromechanical systems. Analytical techniques for solution of equation. Typical transducers. The generalized machine system dynamics.
- 588: Advanced Topics in Power Systems. 0-3-3. Preq., consent of instructor. May be repeated with change in subject matter. Selected topics of current research interest in the field of power systems engineering.
- 641: Advanced Topics in Computer Systems. 0-3-3. Preq., ELEN 543. Topics on the latest advancements in computer systems and computer design.
- 665: Multidimensional Signal Processing. 0-3-3. Preq., ELEN 565. Representations of signals which are functions of several variables. Multidimensional Z-Transforms and discrete Fourier Transforms. 2-D FIR and IIR filter design and implementation.
- 672: Optimal Control Systems. 0-3-3. Proq., ELEN 571. Linear system theory. Statistics of random variables. Response to distributed inputs. System analysis and optimum design with multiple inputs and outputs. Optimum inputs.

- 673: Nonlinear Control Systems. 0-3-3. Preq., ELEN 571. Mathematical models of nonlinear systems. Phase-space analysis. Critical point characterization. Describing functional Sub-harmonic generation. Stability determination. General solution methods.
- 681: Advanced Topics in Power Systems. 0-3-3. Preq., ELEN 581. May be repeated with a change in subject matter. Selected topics of current research interest in the field of power systems engineering.

ENGINEERING (ENGR)

- 120: Engineering Problem Solving I. 3-1-2. Coreq., MATH 240, CHEM 100. The engineering profession, engineering problem solving, computer applications.
- 121: Engineering Problem Solving II. 3-1-2. Preq., ENGR 120; Coreq., MATH 241, CHEM 101. Introduction to engineering design, engineering problem solving, computer applications.
- 122: Engineering Problem Solving III, 3-1-2. Preq., ENGR 121; Coreq., MATH 242. Engineering design, engineering problem solving, computer applications.
- 189: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.
- 194: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.
- 220: Statics & Mechanics of Materials. 3-2-3. Preq., ENGR 122, PHYS 201, MATH 242. Resultants and equilibrium of force systems, stress and strain, truss and frame analysis, torsion, bending, deflections of beams, combined loading.
- 221: Electrical Engineering and Circuits I. 3-2-3. Preq., MATH 243, and credit or registration in MATH 244. Fundamental concepts, units and laws. Network theorems, network simplification, phasors and AC solution of circuits, power and electronic applications.
- 222: Thermodynamics. 3-2-3. Preq., ENGR 122, MATH 242. Fundamental concepts, properties of pure substance, work, heat, first and second laws of thermodynamics, entropy, cycle analysis.
- 289: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.
- 294: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.
- 299: Cooperative Education Applications. 40-0-1 (7). Preq., Admission to the College of Engineering and Science Cooperative Education Program.
- 300: European Influence on Engineering. 7-1-3. Preq., Sophomore standing or consent of instructor. European influence on Engineering theory and practice. Engineering accomplishments in Europe. Impact of engineering on western civilization.
- 389: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.
- 394: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.
- 489: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.
- 494: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science. May be repeated for credit.
- 530: Engineering Experimentation and Research. 4-2-3. Prcq., Working knowledge of statistics. The purpose of this course is to prepare graduate students to conduct experimental research. This interdisciplinary course introduces students to the topics needed in order to design experiments and measurement systems successfully.
- 566: Quality in Engineering. 0-3-3. Preq., STAT 405. Principles of quality as applied to engineering processes. Applications to the engineering workplace and industrial/academic research will be emphasized.
- 589: Special Topics. 1-4 hours credit. Preq., graduate standing. Selected topics in an identified area of study in the College of Engineering and Science
- 590: Application of Artificial Intelligence Techniques. 3-2-3. Preq., Permission of instructor. Introduction to artificial intelligence agents and technologies and their applications in industrial, mechanical, and manufacturing engineering systems.

- 592: Engineering Computational Methods. 0-3-3. Preq., Consent of instructor. Solution of linear and nonlinear systems of equations, roundoff errors, stability, convergence, interpolation and extrapolation, finite difference, approximation of functions, DFT/FFT radix 2, random numbers.
- 594: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in the College of Engineering and Science.
- 622: The Academic Enterprise. 0-1-1 (2). Topics include college teaching, proposal preparation and research, scholarly activities, service, record keeping, and maintaining balance between professional and personal life. May be repeated for credit.
- 631: Global Competitiveness and Management of Technology. 0-3-3. Preq., Consent of instructor. Principles of technology development and management in a global context, and their applications in the planning and implementation of new technological capabilities.
- 641: Formulation of Solutions to Engineering Problems. 0-3-3. Preq., Consent of instructor. Approaches used to formulate solutions to physical engineering problems, mathematical representation of physical laws, boundary value problems, variational methods, common mathematical approaches to solutions, approximate solutions, validity of solutions.
- 651: Research and Dissertation. Doctoral students only. Registration in any quarter may be for three semester hours credit or multiples thereof, up to a maximum of nine semester hours credit per quarter. Maximum total credit allowed is thirty hours.

ENGLISH AS A SECOND LANGUAGE (ESL)

- 103: ESL Grammar Laboratory. 3-0-1 (3). Sentence pattern exercises for non-native speakers.
- 104: ESL Pronunciation Laboratory. 3-0-1 (3). Pronunciation and vocabulary exercises for non-native speakers.
- 111: Level J English Grammar. 0-3-3. High beginning grammar in context for non-native speakers.
- 112: Level I Writing. 0-3-3. Basic sentence patterns and paragraph structure for non-native speakers.
- 113: Level I Vocabulary/Conversation. 0-3-3. Pronunciation, word study, and contextual practice for non-native speakers.
- 114: Level I Reading. 0-3-3. For non-native speakers at the 1,000-word vocabulary level.
- 121: Level II English Grammar. 0-3-3. Low intermediate grammar in context for non-native speakers of English.
- 122: Level II Writing. 0-3-3. A continuation of beginning writing skills for non-native speakers. Emphasis on paragraph organization and structure.
- 123: Level II Vocabulary/Conversation. 0-3-3. Word study through contextual readings and teacher/test guided conversational practice for non-native speakers.
- 124: Level II Reading. 0-3-3. For non-native speakers at the 1,500-word vocabulary level.
- 203: ESL Listening Comprehension Laboratory. 3-0-1 (3). Exercises in listening comprehension skills for non-native speakers.
- 204: ESL Conversation Laboratory. 3-0-1 (3). Exercises for developing conversation skills for non-native speakers.
- 231: Level III English Grammar. 0-3-3. High intermediate grammar in context for non-native speakers.
- 232: Level III Writing. 0-3-3. High intermediate writing skills for non-native speakers. Emphasis on paragraphs and short compositions.
- 233: Level III Vocabulary/Conversation. 0-3-3. Listening comprehension, auditory cues, vocabulary study and conversational exercises for nonnative speakers.
- 234: Level III Reading. 0-3-3. Reading skills for non-native speakers at the 3,000-word vocabulary level and above.
- 241: Level IV English Grammar. 0-3-3. Advanced grammar in context for non-native speakers.
- 242: Level IV Writing. 0-3-3. Advanced composition skills for non-native speakers. Emphasis on essay writing and elementary research techniques.
- 243: Level IV Vocabulary/Conversation. 0-3-3. Advanced word study to assist non-native speakers in isolating and contextualizing problems within a specific written passage.
- 244: Level IV Reading. 0-3-3. Reading skills for non-native speakers at the university level.
- **305:** Level V Communication Skills. 0-3-3 (9). Advanced listening, speaking, and body language techniques for non-native speakers studying in the university or assisting or teaching in the American classroom.
- 454: English Grammar in ESL Teaching. 0-3-3. Preq., Senior standing. Analysis of English grammar specifically for developing instructional

techniques used in teaching grammar for communicative competence in ESL. Also listed as EDUC 454. (G)

- 460: Methods for Teaching and Testing in ESL. 0-3-3. Preq., Senior standing. Theories and techniques for teaching English as a Second Language and evaluating student performance; emphasis on communicative competence. Also listed as EDUC 460. (G)
- 470: Curriculum Development and Design for ESL. 0-3-3. Preq., Senior standing. Selection of objectives, content, task implementation, and pedagogy for teachers of English as a Second Language. Also listed as EDUC 470. (G)
- 493: Cross-Cultural Communication for ESL Teaching. 0-3-3. Preq., Senior standing. Concepts of culture and the relationship of language acquisition to the cultural setting with specific application to the teaching of ESL. Also listed as EDUC 493. (G)

ENGLISH (ENGL)

- **099:** Preparation for College English. 0-3-3. Required if English ACT score is less than 17, or Verbal SAT score is less than 430. Grammar, punctuation, spelling, and vocabulary, with the development of writing skills. Special emphasis on the sentence and paragraph. (Pass/Fail)
- 100: Freshman Composition I. 1-3-4. Preq., English ACT score between 17 and 18 inclusive, or Verbal SAT score between 430 and 450 inclusive, or English 099. Standard course for first-year college students; the three stages of writing (prewriting, writing, and rewriting); writing essays in various modes; grammar review. Includes 1 hour weekly tutorial lab. Credit will not be given for both ENGL 100 and ENGL 101.
- 101: Freshman Composition I. 0-3-3. Preq., English ACT score is greater than or equal to 19, or Verbal SAT score is greater than or equal to 460. Standard course for first-year college students; the three stages of writing (prewriting, writing, and rewriting); writing essays in various modes; grammar review. Credit will not be given for both ENGL 100 and ENGL 101. Statewide Transfer Agreement Course*.
- 102: Freshman Composition II. 0-3-3. Preq., ENGL 101. Continues work of Composition I; includes preparation of a research paper from library sources. Statewide Transfer Agreement Course*.
- 200: Poetry Appreciation. 0-3-3. Preq., ENGL 102. Introduction to poetry designed for students seeking to fulfill General Education requirements under Humanities.
- 201-202: Sophomore English-Introduction to British and American Literature. 0-3-3 each. Preq., ENGL 101 and 102. Statewide Transfer Agreement Course*.

ENGL 201 is a prerequisite for advanced courses in British literature; ENGL 202 is a prerequisite for advanced courses in American literature.

- 303: Technical Writing. 0-3-3. Preq., ENGL 102. Development of technical writing skills and styles; various technical writing assignments, including a technical report.
- 308: The Short Story, 0-3-3. Preq., ENGL 201 or 202. Study of the form and development of the short story.
- 325: Contemporary English and American Poetry, 0-3-3.
- 332: Advanced Grammar. 0-3-3. Preq. ENGL 102. Study of descriptive grammar with some prescriptive grammar and introduction to transformational grammar.
- 336: Advanced Composition. 0-3-3 (6). Preq., ENGL 102. Writing longer essays in various rhetorical modes, with attention to appropriate writing styles.
- 384: Introduction to Creative Writing. 0-3-3. Preq., ENGL 201 or 202. Introduction to traditional and contemporary forms of short fiction and poetry through study of selected models. Students required to write in both genres.
- 400: Theories of Composition. 0-3-3. A course designed to familiarize prospective English teachers with theories of teaching composition. (G)
- 401: The American Mind. 0-3-3. Important currents of ideas that have found expression in American literature. (G)
- 403: Chaucer. 0-3-3. (G)
- 404: Milton. 0-3-3. (G)
- 406: World Masterpieces. 0-3-3. Survey of major non-English literary texts in the Western Tradition. (G)
- 407: Principles and Techniques of Literary Criticism. 0-3-3. (G)
- 408: American Poetry, 0-3-3. Preq., ENGL 202. Study of major poets from the Puritans to the contemporary period. (G)
- 409: American Fiction of the Nineteenth Century, 0-3-3. Study of the rise of American fiction through Henry James. (G)

- 410: The Eighteenth-Century British Novel. 0-3-3. Study of the rise of the British novel from its inception to the end of the 18th century. (G)
- 411: The Nineteenth-Century British Novel. 0-3-3. Preq., ENGL 201. Study of the development of the British novel from Austen to the end of the nineteenth century, (G)
- 412: The Twentieth-Century British Novel, 0-3-3. Preg., ENGL 201. Study of the development of the British novel from the Edwardian Period to the present. (G)
- 413: The Romantic Period. 0-3-3. Study of the major writers of the age. (G)
- 414: The Victorian Period. 0-3-3. Study of the major writers of the age. (G)
- 415: Shakespeare. 0-3-3. The major plays and the poems. (Same as SPTH 415 (G)
- 416: American Literature: Beginnings to 1865. 0-3-3. Study of American writing from the Colonial period through the Civil War. (G)
- 417: American Literature: 1865 to Present. 0-3-3. Study of American writing from Reconstruction to the contemporary period. (G)
- 418: The American Renaissance, 0-3-3. Preq., ENGL 202. Study of the major authors and cultural contexts of the American Renaissance, 1830-1860. (G)
- 419: Contemporary Drama. 0-3-3. American, English, and European. (G)
- 420: The Continental Novel. 0-3-3 (G)
- 421: History and Philosophy of Rhetoric, 0-3-3. Survey of the development of rhetoric from Ancient Greece and Rome to current theories and practice. (G)
- 422: The English Language. 0-3-3. Primarily a course in the history of the language. (G)
- 423: English Words and Idioms. 0-3-3. Rhetoric and logic as applied to critical thinking. Semantics. Exercises in propaganda analysis and identification of fallacics. (G)
- 424: Southern Literature. 0-3-3. Study of the works of writers who have interpreted the American South, with emphasis on the authors of the Southern Renaissance. (G)
- 425: Russian Literature in English Translation, 0-3-3 (6). Representative works of Russian literature from the 19th and 20th centuries; repeatable for credit with different course content. May not be counted towards a minor in Russian. Also listed as RUSS 425. (G)
- 426: Spanish Literature in English Translation, 0-3-3 (6), Representative works of Spanish literature from the Middle Ages to the 20th century; repeatable for credit with different course content. May not be counted towards a major or minor in Spanish. Also listed as SPAN 426, (G)
- 427: Latin American Literature in English Translation. 0-3-3 (6). Representative works of 20th-century Latin American literature; repeatable for credit with different course content. May not be counted towards a major or minor in Spanish. Also listed as SPAN 427. (G)
- 428: French Literature in English Translation. 0-3-3 (6). Representative works of French literature from the Middle Ages to the 20th century; repeatable for credit with different course content. May not be counted towards a major or minor in French. Also listed as FREN 428. (G)
- 429: American Fiction of the Twentieth Century. 0-3-3. Study of the "American Century" as reflected in representative novels and short stories. (G)
- 430: African American Literature. 0-3-3. Study of the development of African American writing, with emphasis on the period from the Harlem Renaissance to the present. (G)
- 438: Sixteenth Century English Literature (excluding Shakespeare). 0-3-3. (G)
- 439: Seventeenth Century English Literature (excluding Milton). 0-3-3. (G)
- 440: Eighteenth Century English Literature. 0-3-3. (G)
- 452: The Literature of the Bible. 0-3-3. A survey of literary genres of the Old and New Testaments, focusing on the poetic and/or narrative art of each. (G)
- 455: Modern British Literature. 0-3-3. Preq., ENGL 201 or 202. Study of the poetry, plays, and fiction from the early 20th century to World War II. (G)
- 456: Contemporary British Literature. 0-3-3. Preq., ENGL 201 or 202. Study of the poetry, plays, and fiction from World War II to the present. (G)
- 459: Technical Writing and the Scientific Method. 0-3-3. Preq., ENGL 303. Study of scientific thought, methodologies, and metorical strategies; application to style and structure in technical discourse, (G)
- 460: Advanced Technical Writing, 0-3-3. Preq., ENGL 303. Emphasis on longer reports and specialized forms of technical writing, such as manuals, (G)

- 461: Technical Writing for Publication, 0-3-3. Preq., ENGL 303, Writing articles for scientific and technical journals, with emphasis on audience analysis and appropriate style, (G)
- 462: Technical Editing. 0-3-3. Preq., ENGL 303. The work of an editor, including editing a text, planning projects, and working with authors, illustrators, and production workers. (G)
- 463: Scientific and Technical Presentations. 0-3-3. Preq., ENGL 303. Presenting technical information to specialized and non-technical audiences; emphasis on organization, support, and clarity of presentation; effective use of visual materials. (G)
- 464: Occupational Technical Writing, 0-3-3. Preq., ENGL 303. Preparing the technical writer to plan and conduct training sessions within the organization and to supervise others engaged in writing tasks. (G)
- 465: Specification, Bid, Grant, and Proposal Writing. 0-3-3. Preq., ENGL 303. Writing specifications, bids, grants, and proposals; emphasis on audience analysis, organization, and writing style. (G)
- 466: Technical Writing Internship. 9-0-3 (6). Preq., permission of Department Head. On-the-job experience for the technical writing student; intended to give supervised practice under realistic working conditions. Internships are to be arranged individually. (G)
- 467: Special Problems in Technical Communication. 3 hours credit (6). Prcq., Permission of Department Head. The selection, study and writing of special problems. Students will work on individual projects under direct supervision. (G)
- 468: Readings in Scientific and Technical Communications. 0-3-3. Preq., ENGL 303. Study of the current material written about technical communication, with a reading and critical analysis of various technological journals. (G)
- 469: Graphics in Technical Writing. 0-3-3. Preq., ENGL 303. Theory and practice of illustrating texts, with emphasis on electronic media to integrate nonverbal and written materials. (G)
- 470: Linguistics. 0-3-3. Preq., ENGL 201 or 202. Systematic study of language acquisition, change, and variation; application to teaching grammar, writing, and/or literature. Also listed as FLNG 470. (G)
- 475: Special Topics. 0-3-3 (6). Seminar with topic to be designated by the instructor. (G)
- 480: Science Fiction. 0-3-3. Study of science fiction within the context of modern literature, including short stories, novels, and films. (G)
- 482: Folklore Studies. 0-3-3. Study of folklore theory and genres in culture and literature with topics ranging from verbal arts to ritual and belief. (G)
- 484: Advanced Creative Writing. 0-3-3. Preq., ENGL 384 or instructor's permission. Workshop format includes intensive criticism of student writing in short fiction and/or poetry with emphasis on submission for publication. (G)
- 491: Advanced Expository Writing, 0-3-3. Writing essays and reports for professional publication; focus on style, format, and editing manuscripts. (G)
- 500: Teaching College Composition. 0-3-3. Preparation for teaching Developmental English and Freshman English; includes theory, research, technology, and pedagogy related to college composition.
- 515: Shakespeare Seminar. 0-3-3 (6). Preq., ENGL 415 or its equivalent. Study of Shakespearc texts and background writings of the Elizabethan and Jacobean Periods; repeatable once for credit with different instructor and/or course content.
- 520: Seminar in Composition. 0-3-3 (6). Selected reading and research topics in composition studies; repeatable for credit with different instructor and/or course content.
- 560: Seminar in Technical Writing. 0-3-3 (6). Preq., ENGL 303 or equivalent. Selected reading and research topics in technical writing theory and practice; repeatable once for credit with different instructor and/or course content.
- 575: Special Topics. 0-3-3 (6). Graduate seminar with topic to be designated by instructor.
- 583: Seminar in British Literature. 0-3-3 (6). Reading and research topics in British Literature; repeatable once for credit with different instructor and/or course content.
- 584: Seminar in American Literature. 0-3-3 (6). Reading and research topics in American Literature; repeatable once for credit with different instructor and/or course content.
- 585: English Teachers' Workshop. 0-3-3. A course designed primarily for school teachers of English.
- 591: Literary Research and Bibliography. 0-3-3. Focuses upon methodology of scholarship, stressing various kinds of literary problems

and approaches to their solutions; emphasis on descriptive and analytical bibliography.

ENTREPRENEURSHIP (ENTR)

- 410: Entrepreneurship for High Tech Start-Ups. 0-3-3. Preq., junior standing. Overview of the major business elements and the management of high technology enterprises.
- 430: Innovative Product Design. 6-1-3. Preq., junior standing and consent of instructor. An interdisciplinary, team-oriented, problem-solving approach to innovative product design and prototype development, including analysis of marketing and commercialization strategies.
- 460: Innovative Venture Research. 6-1-3. Preq., consent of instructor. Implementation of strategic business principles and cross-disciplinary research to evaluate new business ventures through commercialization of university-based intellectual property.
- **489:** Special Topics. 1-4 hours credit. Selected topics in the interdisciplinary area of entrepreneurship. May be repeated for credit.
- 560: Innovative Venture Research. 6-2-3. Preq., consent of instructor. Implementation of strategic business principles and cross-disciplinary research to evaluate the commercial potential of research programs and commercialization strategies for university-based intellectual property.

ENVIRONMENTAL SCIENCE (ENSC)

- 211: Introduction to Environmental Sciences. 0-3-3. Basic laws, principles, and issues related to causes, effects, and controls of environmental problems including human-environment interactions. Credit will not be given for ENSC 211 if credit is given for BISC 211.
- 212: Conservation and Management of Natural Resources. 0-3-3. Introduction to the management of renewable resources including the use, conservation, and sustainability of these resources. Credit will not be given for ENSC 212 if credit is given for BISC 212.
- 246: Instrumentation. 4-2-3. Preq., 8 semester hours of biological or chemical sciences. Emphasizes laboratory safety and the operational theory, use, and maintenance of instruments appropriate to biological, environmental, and medical investigations. Credit will not be given for ENSC 246 if credit is given for BISC 246.
- 275: Aquatic Bioassays. 0-1-1. Internet-based course centering on governmental regulations concerning bioassays to test for toxicity in waste effluents released into natural waters in the United States. Credit will not be given for ENSC 275 if credit is given for BISC 275.
- 310: Soil Science, 0-3-3. Preq., CHEM 100, 101, 102. A general study of soil science, emphasizing the relation of soil properties and processes to plant growth. Cannot be taken for credit if student has credit for PLSC 310.
- 311: Soil Science Laboratory. 3-0-1. Preq. or Coreq., ENSC 310. Laboratory exercises to elaborate fundamental principles of soil properties, soil testing, and soil survey reports. Cannot be taken for credit if student has credit for PLSC 311.
- **313:** Ecology. 4 1/4-2-3. Preq., BISC 132, 133. An overview of the interactions of plants, animals, and non-living factors as they influence individuals, populations, communities, and ecosystems. Credit will not be given for ENSC 313 if credit is given for BISC 313.
- 400: Environmental Science Seminar. 0-1-1(3). Reviews, reports, and discussions of current problems relating to environmental science. Credit will not be given for ENSC 400 if credit is given for BISC 480.
- 421: Epidemiology. 0-3-3. Methods of data collection and analysis to determine the frequency, distribution and cause of disease and/or injury in human and non-human populations.
- 422: Occupational Health and Safety. 0-3-3. The design and implementation of occupational health and safety services to including fitness-to-work evaluations, health monitoring, hazard evaluation and response to emergencies involving hazardous substances. (G)
- 444: Environmental Microbiology. 4-2-3. Preq., BISC 260. Basic and contemporary aspects of soil, water, and industrial microbiology. Credit will not be given for ENSC 444 if credit is given for BISC 444.
- 450: Management of Soil & Water Quality. 3-2-3. Preq., ENSC 310 or PLSC 310. Study of agricultural practices and other activities that affect soil and water quality with an emphasis on solutions that avoid or minimize adverse environmental impacts. Cannot be taken for credit if student has credit for PLSC 450.
- **456:** Environmental Chemistry. 0-3-3. Preq., one year of college chemistry and junior standing. Chemical principles that regulate and affect the environment. (G)

- 458: Environmental Law. 0-3-3. Preq., Junior standing or consent of instructor. A review and analysis of state and federal laws, conventions, and international treaties that influence natural resource management. Credit will not be given for ENSC 458 if credit is given for BISC 458.
 (G)
- 477: Cooperative Education Work Experience. 1-9 hours credit. May be repeated for credit. On site, supervised, structured work experiences located within a 100 mile radius of Ruston. Application and supervision fee required. Cannot be taken for credit if student has credit for AGSC 477.
- 478: Cooperative Education Work Experience. 1-9 hours credit. May be repeated for credit. On site, supervised, structured work experiences located within a 101-200 mile radius of Ruston. Application and supervision fee required. Cannot be taken for credit if student has credit for AGSC 478.
- **479:** Cooperative Education Work Experience. 1-9 hours credit. May be repeated for credit. On site, supervised, structured work experiences located beyond a 201 mile radius of Ruston. Application and supervision fee required. Cannot be taken for credit if student has credit for AGSC 479.

FAMILY & CHILD STUDIES (FCS)

- 100: Marriage and Family Relations. 0-3-3. Significant factors for successful marriage, marital adjustment, and family relations.
- 101: Skills for Marriage. 0-3-3. Designed to provide students with information and skills necessary to facilitate an enduring and satisfying marriage.
- 200: Parenting. 0-3-3. Study of the parenting role. Emphasis on parent-child interaction as it influences child growth and development.
- 201: Introduction to Life Span Development. 0-3-3. Basic principles and sequences in human development from prenatal period through aging years. Emphasis on developmental tasks, forces influencing development, and the family life cycle.
- 210: Family Interpersonal Relationships. 0-3-3. The study of interaction between individuals with application to family dynamics, personal relationships, professional interaction, and job competency.
- 221: Parent and Community Involvement. 0-3-3. Introduces students to theories, research, and techniques of family and community involvement for teachers working with children birth to age 8 years and their families.
- 276: Children's Near Environments. 0-3-3. An examination of issues related to the near environment of children including child nutrition, food preparation and activities, housing, equipment, and clothing needs.
- 277: Guiding Infants and Young Children. 0-2-2. Principles and techniques of positive guidance emphasizing a problem solving philosophy and a child-centered approach.
- 280: Hospitalized Children and Youth. 0-3-3. Study of issues involved in childhood illnesses and hospitalization.
- 291: Orientation to Child Life Programs. 0-3-3. A study tour of child life programs and services.
- 301: Early Childhood Development. 3-2-3. Preq., FCS 201. The development of young children. Theory and practice are correlated through readings, class discussions, and preschool laboratory experiences.
- 311: Literacy Development in Early Childhood Education. 0-3-3. Preq. or Coreq., Admission to Teacher Education Upper Division or consent of instructor. Development of early language skills. Emphasis on the preschool language arts curriculum as preparation for language development.
- 312: Methods of Early Childhood Math. 3-2-3. Emphasizes the developmental mathematical skills of the young child ages 3 to 6 years. Foundation, characteristics and methods of mathematical development will be coverd.
- **320:** Family Theory, 0-3-3. Preq., FCS 100, 201 or consent of instructor. An overview of theoretical frameworks in family science with primary emphasis given to application of constructs.
- 321: Methods in Early Childhood Education. 3-2-3. Preq., Admission to Teacher Education Upper Division and FCS 301 or consent of instructor. Important factors in planning for preschool children. Emphasis on objectives, planning nursery school experiences, and evaluation.
- 331: Infant Development. 3-2-3 Preq., FCS 201 or consent of instructor. Survey of influences on prenatal and infant development. Theory and practice correlated through readings, class discussion and laboratory experiences.
- 341: Issues and Applications in Middle Childhood and Early Adolescence, 3-2-3, Preq., FCS 201 or consent of instructor. A survey of

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middle childhood and early adolescent years as they relate to children's development and family interaction; includes observation and laboratory experiences.

- 355: Advanced Interpersonal Skills for the Family & Child Advocate. 0-3-3. Preq., FCS 100, 210. Examination of interpersonal skills for the family and child helping professional or advocate. Discussion of traditional helping paradigms.
- 361: Techniques for Observing and Assessing Young Children. 3-2-3. Preq. or Coreq., FCS 301 or 331. Skills and strategies needed to observe and assess children's development.
- 380: Understanding Childhood Diseases and Disorders. 0-3-3. Overview of childhood diseases/disorders, diagnostic tests, and treatment, with emphasis on effects of illness on normal growth and development and family functioning.
- 395: Research Methods in Family and Child Studies. 0-3-3. Preq., FCS 320 or consent of instructor. Examination of methods, implications, and ethics of child and family research. Theory based research and competency in reading empirical studies will be emphasized.
- 400: Contemporary Family Issues. 0-3-3. Selected issues related to family interaction and adjustment from an ecosystem perspective.
- 401: Curriculum and Organization of Early Childhood Education Programs. 0-3-3. Preq., Admission to Teacher Education Upper Division and FCS 321 or consent of instructor. Organization of preschool programs with emphasis on creative activities, materials and facilities.
 (G)
- **410:** Multi-Cultural Family Studies. 0-3-3. Cross-cultural survey of family patterns and their implications for professionals in the community and workplace.
- **420:** Issues in Family Life Education, 0-3-3. Preq., FCS 320. Methodology of teaching current family issues in family education programs. Development of family life educator skills with emphasis on parent education and marital enrichment. **(G)**
- 421: Student Teaching in Early Childhood Education: Nursery School. 16-1-6. Preq., Admission to Teacher Education Upper Division and FCS 321, consent of instructor, preregistration and application required. An intensive practical experience in supervised nursery school teaching.
- 432: Children Under Stress. 0-3-3. Preq., FCS 301 or consent of instructor. In-depth study of issues relating to the identification, understanding, and intervention in childhood stress.
- **435:** Family Coping. 0-3-3. Designed to help students recognize and adapt to stressors of everyday living. Particular attention is placed on understanding family involvement in coping with stress. (G)
- 447: Issues in Gerontology, 0-3-3. Preq., FCS 201 or PSYC 408 or consent of instructor. Issues that impact older age adults including public policy, close relationships, sexuality, housing, nutrition and consumerism. (G)
- **451: Theory, Guidance, and Therapcutic Value of Play.** 0-3-3. Preq., FCS 301 or consent of instructor. Study of play in teaching, therapy, and creativity for children and youth.
- 461: Administration of Programs for Young Children. 0-2-2. Preq., FCS 301 and 331 or consent of instructor. Planning and administration of programs for young children.
- **471:** Family Law and Public Policy. 0-3-3. Preq., FCS 100 and 400 or consent of instructor. The study of the legal system and public policy as they relate to family structure and function. (G)
- 480: Families with At Risk Children, Birth Through Preschool. 0-3-3. Preq., FCS 320 or consent of instructor. Application of family theory to families with special needs children, birth through preschool. Appropriate for child life, early childhood education, early intervention professionals. (G)
- 481: Team Functioning for Family and Child Studies Professionals. 0-3-3. Team development and functioning including processes, barriers and interdisciplinary collaborations. (G)
- 482: Nutrition and Medical Management of Infants At Risk. 0-3-3. Preq., 'FCS 331 or consent of instructor. Overview of nutritional and medical care issues associated with infants and young children at risk for or with disabilities. (G)
- **490:** Perspectives in Family and Child Studies. 0-3-3 (9). Preq., FCS 201 and 210 or consent of instructor. An in-depth study of current trends and issues that relate to strengthening children and families.
- 501: Contemporary Issues in Infancy and Preschool Years. 0-3-3. Seminar in current research in child development with emphasis on the infancy and preschool years.

- 502: Advanced Child Development. 0-3-3. An in-depth exploration into social/emotional, cognitive and physical development of children from birth to 8 years of age.
- 510: The Family in Middle and Later Years. 0-3-3. Study of changes, needs and adjustments during the middle and later years of the family.
- 520: Interpersonal and Family Dynamics. 0-3-3. Study of dynamics of family interaction and relationship functioning. Emphasis on current research and issues confronting contemporary families.
- 521: Family Crisis. 0-3-3. Origins, development, and coping responses to predictable and unexpected crises of family systems in varied ecological settings.
- 522: Family Life Education Programs. 0-3-3. Study of theory and methods used in developing programs to reduce mental health risks and build strengths of families.
- 530: Early Childhood Programs. 0-3-3. Survey of early childhood program models.
- 540: Parent Involvement. 0-3-3. Theories, issues and public policy of parent involvement in the educational process of ehildren.
- 561: Advanced Administration of Early Childhood Programs. 0-3-3. An in-depth study of administering and organizing programs serving young children.

FINANCE (FINC)

- 100: Family Financial Management. 0-3-3. Specific family financial decisions, including budgeting, insurance, home purchase or rent, consumer rent, personal income tax, lifetime financial planning.
- **318: Business Finance.** 0-3-3. Preq., ECON 202 or 215, ACCT 202, and junior standing. An introduction to the principles of financial management including the role of the financial manager, problems of liquidity vs. profitability, budgeting of capital expenditures, management of short-term and long-term funds, and management of assets.
- 319: Intermediate Financial Management, 0-3-3. Preq., FINC 318. Advanced practices of financial management are developed. Financial models used in decision-making and their application to major areas of business finance are emphasized.
- 330: Risk and Insurance. 0-3-3. A comprehensive study of riskbearing, including insurance and non-insurance methods of handling a risk; introduction to the fields of life, disability, property, and casualty insurance.
- **401:** Internship in Finance I. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.
- **402:** Internship in Finance II. 3 hours credit. (Pass/Fail) Preq. consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.
- **412:** International Finance. 0-3-3. Preq., FINC 318. A study of the various modes of financing international trade, including international financial organizations, an analysis of exchange rates, foreign investments, multinational firms, and international banking. (G)
- 414: Investments. 0-3-3. Preq., FINC 318. Analyses of investments in common stocks, bonds, and other financial assets; sources of information for the investor; analysis of firms' financial statements; classes of investments. (G)
- 421: Portfolio Risk Management. 0-3-3. Preq., FINC 414. Examine concepts in portfolio theory. Evaluate the implications of portfolio building, security selection, and risk-management techniques, including the use of derivatives. (G)
- 422: Bank Management. 0-3-3. Preq., FINC 318. Prohlems in organization, operation, and management of commercial banks, with special emphasis on credit banking. (G)
- 425: Money Markets, Capital Markets and Financial Institutions. 0-3-3. Preq., FINC 318. A survey of the markets in which funds are traded; a survey of the lending and investing characteristics of selected financial institutions. (G)
- **430:** Advanced Financial Management. 0-3-3. Preq., FINC 318. The case method is used to apply decision-making procedures to realistic problems in financial management.
- **431:** Life Insurance, 0-3-3. A comprehensive study of personal and group life, accident and health, hospitalization, old age, survivors and disability insurance and annuities.
- **432:** Property Insurance. 0-3-3. A comprehensive study of fire, burglary, robbery, forgery, liability, inland and ocean marine insurance, and surety and fidelity bonds.

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- 442: Principles of Real Estate and Land Economics. 0-3-3. Land utilization, city growth, land development, legal processes and transactions, real estate marketing, financing and financial institutions, taxes, condemnation, planning and zoning.
- 443: Appraisal. 0-3-3. Application of value theory and principles to real estate values; professional appraisal principles methodology. Corresponds to Appraisal I, the Appraisal Institute.
- 445: Real Estate Finance. 0-3-3. Proq., FINC 318. Finance principles applied to real estate. Sources of funds, legal and financial instruments, and analytical methods for decision-making. (G)
- 511: Risk Management. 0-3-3. The economic concept of risk and various techniques utilized in the discovery, evaluation and treatment of a business pure risk.
- 515: Financial Management. 0-3-3. Preq., ACCT 505 or consent of instructor. The study of a financial manager's role in financial planning, acquisition and management of funds for a business firm.
- 516: Financial Management: Policies and Practices. 0-3-3. Preq., FINC 515 or consent of instructor. Application of decision-making procedures to financial management problems. Student is required to solve case problems and manage the financial affairs of computer simulated firm.
- 517: Capital Budgeting Seminar. 0-3-3. Preq., FINC 515 or consent of instructor. A systematic and thorough treatment of the theory and practice of capital expenditure management, emphasizing financial modeling and employing a quantitative format.
- 518: Advanced Commercial Banking. 0-3-3. FINC 515 or consent of instructor. Advanced studies in contemporary banking practices with special emphasis in credit analysis. Structuring of loans in specialized commercial lending areas as well as the entire credit granting decision process will be examined.
- 525: Seminar in Investments. 0-3-3. FINC 515 or consent of instructor. Study of the theories and techniques of investment analysis for purposes of evaluation and selection of investments.
- 550: Directed Study in Finance. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of finance.
- 610: Seminar in Financial Theory I. 0-3-3. Preq., FINC 515 (also, desirable that student has had an intermediate or advanced economics course). Examination and application of contemporary financial theory and analysis relating to business finance.
- 611: Risk Management. 0-3-3. Requires Doctoral standing. May require additional class meetings. The economic concept of risk and various techniques utilized in the discovery, evaluation and treatment of a business pure risk. Credit will not be given for FINC 611 if credit is given for FINC 511.
- 612: Financial Econometrics I. 0-3-3. Preq., Doctoral standing. Prices, returns, compounding, marginal, conditional, and joint distributions, market efficiency. The predictability of asset returns, marketmicrostructure, event-study analysis, CAPM, multifactor-asset pricing models, and related topics.
- 615: Seminar in Financial Theory II. 0-3-3. Preq., FINC 610. Requires Doctoral standing. Detailed study of both classic and contemporary literature that provides students with a cross-section of modern theoretical developments in the field of business finance.
- 616: Financial Management: Policies and Practices. 0-3-3. Preq., FINC 515 or consent of instructor. Requires Doctoral standing. May require additional class meetings. Application of decision-making procedures to financial management problems. Student is required to solve case problems and manage the financial affairs of computer simulated firm. Credit will not be given for FINC 616 if credit is given for FINC 516.
- 617: Capital Budgeting Seminar. 0-3-3. Preq., FINC 515 or consent of instructor. Requires Doctoral standing. May require additional class meetings. A systematic and thorough treatment of the theory and practice of capital expenditure management, emphasizing financial modeling and employing a quantitative format. Credit will not be given for FINC 617 if credit is given for FINC 517.
- 618: Advanced Commercial Banking. 0-3-3. FINC 515 or consent of instructor. Requires Doctoral standing. May require additional class meetings. Advanced studies in contemporary banking practices with special emphasis in credit analysis. Structuring of loans in specialized commercial lending areas as well as the entire credit granting decision process will be examined. Credit will not be given for FINC 618 if credit is given for FINC 518.
- 619: Financial Econometrics II. 0-3-3. Preq., Doctoral standing and FINC 612. Relations among prices, dividends and returns. Present value

relations and US stock price behavior. Models of intertemporal equilibrium, derivative pricing, fixed income, and term structure. Nonlinearities in financial data.

- 620: Seminar in Financial Institutions. 0-3-3. Preq., Doctoral standing and FINC 615. Theoretical and empirical studies of financial institutions. Modeling banking firms, efficiencies in banking, bank lending deposit insurance, and related topics.
- 625: Seminar in Investments. 0-3-3. FINC 515 or consent of instructor. Requires Doctoral standing. May require additional class meetings. Study of the theories and techniques of investment analysis for purposes of evaluation and selection of investments. Credit will not be given for FINC 625 if credit is given for FINC 525.
- 630: Seminar in Corporate Finance. 0-3-3. Preq., Doctoral standing and FINC 615. Recent theoretical and empirical developments in corporate and managerial finance. Topics include sources and costs of firm financing, the market for corporate control, corporate governance, and related topics.
- 640: Advanced Seminar in Investments. 0-3-3. Preq., Doctoral standing and FINC 615. Recent theoretical and empirical developments in modern investment analysis. Topics include IPOs, fixed income investments, deriviatives, mutual funds, efficient markets, market-microstructure, strategic trader behavior, and related topics.
- 650; Directed Study of Finance. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of finance.
- 685: Comprehensive Exam in Finance. No credit. Doctoral standing required. Required for all business administration doctoral students seeking to take the comprehensive exam in finance. Successful completion is a prerequisite to the oral comprehensive exam for those seeking a primary field or examined minor in finance. Requires consent of graduate director.

FOOD & NUTRITION (FNU)

- 103: Human Nutrition and Weight Control. 0-1-1 (3) Pass/Fail. Personalized weight control program based on recommended nutrients, behavior modification and energy balance.
- 203: Human Nutrition. 0-3-3. Functions of various nutrients and their interrelationships in children and adults with emphasis on personal food habits and selection.
- 220: Life Cycle Nutrition. 0-3-3. Evaluation of variations in nutrition requirements in all stages of the life cycle, including prenatal, infant, childhood, adolescent, adult, and geriatric nutrition.
- 223: Nutrition Education. 0-2-2. Basic principles of nutrition with special emphasis on the school-age child. Techniques of presenting nutrition information to children (Planned for non-majors).
- 232: Basic Food Science. 3-2-3. Use of food science principles in food selection and preparation procedures. Introduction to food science research.
- 253: Sports Nutrition, 0-3-3. Nutrient needs and food related issues in exercise for wellness and training for competitive athletes.
- 274: Introduction to Dietetics. 0-3-3. An introduction to dietetics, trends affecting the profession, and the research process, including computer applications.
- 302: Quantity Foods Field Experience. 4-2-3. Preq., FNU 352. Equipment and production in the food service industry; field experience in food service facilities.
- 305: Nutrition Education Methods. 0-2-2. Preq. or Coreq., FNU 203 or 253. Principles and methods of teaching in nutrition education.
- 352: Food Systems Management I. 0-3-3. Preq., FNU 232, or consent of the instructor. Study of the principles of organization and management applied to institutional food service.
- 402: Human Nutrition Biochemistry I. 0-3-3. Preq., FNU 203, BISC 227 and 228, CHEM 121. Food sources and utilization of carbohydrates, proteins, and fats in humans.
- 403: Community Nutrition. 0-3-3. Preq., FNU 203 or 220. Prevention and treatment of nutrition problems common to individuals, families, and communities. Includes survey of federal, state, and local nutrition programs for various age groups.
- 404: Human Nutritional Biochemistry II. 0-3-3. Preq., FNU 402. Food sources and utilization of vitamins, minerals, and water in humans.
- 412: Advanced Food Science. 3-2-3. Preq., FNU 232, CHEM 121 or consent of instructor. Study of the chemical and physical nature of foods. Individual investigations of selected problems.

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- 414: Nutrition Assessment. 3-2-3. Preq. or Coreq., FNU 402. Planning, implementation, and evaluation of nutrition needs and provision of individualized client care.
- 423: Medical Nutrition Therapy I: Diabetes, Cancer, & Heart Disease. 3-2-3. Preq., FNU 414. Medical nutrition therapy for cardiovascular disease, diabetes, cancer, food allergies, and AIDS.
- 443: Mcdical Nutrition Therapy II: GI, Renal Disease, and Nutrition Support. 3-2-3. Preq., FNU 423. Enteral and parental nutrition; mcdical nutrition therapy for gastrointestinal, liver, and kidney diseases.
- **463: Medical Nutrition Therapy III: Clinical Applications.** 3-2-3. Preq. or Coreq. FNU 443. Structured experiences in nutrition and dietetics to develop assessment, interviewing, and nutrition education skills.
- 472: Food Systems Management II. 0-3-3. Preq., FNU 302. Study of the principles of organization and management applied to institutional food service.
- **492:** Supervised Practice in Nutrition-Dietetics. 1-9 hours credit (28). (Pass/Fail). Preq., Completion of approved didactic program in dietetics. Application required.
- 503: World Nutrition Problems. 0-3-3. A study of world wide nutritional problems with special emphasis on recent research and contributing factors. Open to non-majors.
- 512: Food Science and Technology. 0-3-3. Recent developments in science and technology underlying current practices in quality preservation, and problems in nonbacterial spoilage mechanisms of food. Includes survey of freeze-drying, irradiation, antibiotics, antioxidants, enzymes, food additives, and packaging.
- 517: Graduate Seminar for Supervised Practice Students. 3-0-1 (3). Corequisite, FNU 492. Seminar designed to promote effectiveness of professional written and oral communications, increase knowledge of research, and review content information in selected topics in dictetics.
- 523: Recent Advances in Medical Nutrition Therapy. 0-3-3 (12). Current developments in normal nutrition, nutrition assessment, and diet therapy.
- 525: Nutrition for Educators. 0-3-3. U.S. Dietary Guidelines based nutrition information and resources for preschool through high school age individuals. No prerequisites.
- 526: Maternal & Infant Nutrition. 0-3-3. A study of current nutritional issues related to pregnancy, lactation, and infancy.
- 527: Issues in Weight Management. 0-3-3. A study of nutrition guidelines for weight management.
- 528: Nutritional Management of Cardiovascular Disease. 0-3-3. The role of diet in the prevention, development, and treatment of cardiovascular disease.
- 529: Nutritional Management of Diabetes. 0-3-3. Study of issues related to diabetes including assessment and the role of diet in diabetes management.
- 530: Nutritional Assessment. 0-3-3. Nutritional assessment of patient with medical problems.
- 531: Nutrition & Renal Disease. 0-3-3. A study of nutritional issues related to renal disease.
- 532: Nutrition & Aging. 0-3-3. A study of the nutritional issues related to the aging process.
- 533: Vitamins and Minerals in Human Nutrition. 0-3-3. Sources, properties and functions of vitamins and minerals in human nutrition.
- 534: Nutrition Support. 0-3-3. Current developments in nutrition support related to various disease states including diabetes, liver disease, endstage renal disease, gastrointestinal problems, and pulmonary failure.
- 543: Nutrition and Worksite Wellness. 0-3-3. The role of wellness programs in community and clinical settings, including assessment, planning, implementation, and evaluation of programs.
- 553: Clinical Management and Private Practice in Dietetics. 0-3-3. Techniques in dietetics-nutrition service settings to develop, manage, and evaluate private practice.
- 562: Trends in Food Systems Administration, 0-3-3 (12). Seminar on current topics in food systems administration with emphasis on student's arca of interest.
- **603:** Nutritional Diagnosis Theory. 0-3-3. Preq., FNU 523 or consent of instructor. Application of outcome-based research and medical nutrition theory as it applies to the nutritional diagnosis of clients.
- 604: Research Methods in Dietetics and Human Nutrition Services. 0-3-3. Preq., HEC 504 or the equivalent. Study of quantitative and qualitative research methods, design, and analysis in dietetic research.
- 613: Clinical Nutritional Diagnosis. 3-2-3. Preq., FNU 603. Case study approach to the nutritional assessment, diagnosis, and documentation of nutritional problems.

FOREIGN LANGUAGES (FLNG)

- 101: Special Offerings in Less Commonly Taught Languages: Elementary 1. 0-3-3. Introduction to a foreign language not listed in other departmental offerings; emphasis on communicative competence for contemporary languages and on reading competence for classical languages.
- 102: Special Offerings in Less Commonly Taught Languages: Elementary 2, 0-3-3. Preq., FLNG 101. Introduction to a foreign language not listed in other departmental offerings; emphasis on communicative competence for contemporary languages and on reading competence for classical languages.
- 201: Special Offerings in Less Commonly Taught Languages: Intermediate 1: 0-3-3. Prcq., FLNG 102. The more complex structures of a language not listed in other departmental offerings; emphasizes communicative competence for contemporary languages and reading competence for classical languages.
- 202: Special Offerings in Less Commonly Taught Languages: Intermediate 2: 0-3-3. Preq., FLNG 201. The more complex structures of a language not listed in other departmental offerings; emphasizes communicative competence for contemporary languages and reading competence for classical languages.
- 203: Special Offerings in Less Commonly Taught Languages: Intermediate 3: 0-3-3. Preq., FLNG 202. The more complex structures of a language not listed in other departmental offerings; emphasizes communicative competence for contemporary languages and reading competence for classical languages.
- **453:** Foreign Language Teaching Methods. 0-3-3. Preq., 12 hours of a foreign language. Study of a broad range of foreign language teaching methods; examination of underlying theories and practical applications. Also listed as EDUC 453. (G)
- 470: Linguistics. 0-3-3. Preq., ENGL 201 or 202. Systematic study of language acquisition, change, and variation; application to teaching grammar, writing, and/or literature. Also listed as ENGL 470. (G)
- 489: Special Topics. 0-3-3 (6). Preq., advanced standing and permission of Department Head. Topic to be designated by the instructor. (G)
- 494: Independent Studies in Foreign Languages, 1-3 credit hours (9). Preq., advanced standing and permission of Department Head. Topics in foreign languages, literature and linguistics for independent study in the student's curriculum specialty.

FOREIGN STUDIES (FSTU)

- 101: Special Academic Studies. 1-3 hours. Special academic studies conducted in foreign countries.
 201: Special Academic Studies. 1-3 hours. Special academic studies
- conducted in foreign countries.
 301: Special Academic Studies. 1-3 hours. Special academic studies
- conducted in foreign countries. 401: Special Academic Studies. 1-3 hours. Special academic studies
- conducted in foreign countries.
- 501: Special Academic Studies. 1-3 hours. Special academic studies conducted in foreign countries.

FORESTRY (FOR)

- 101: Introduction to Forest Resources. 4-0-1. An introduction to forest resources management and utilization.
- 201: Microcomputer Applications. 0-3-3. Introduction to microcomputers with specific applications in filing conventions, word processing, spreadsheets, electronic communications, and other topics.
- 202: Forest Fire. 0-2-2. Fire; its' role in ecosystems, use in management, and control.
- 205: Dendrology. 3-1-2. Preq., BISC 130 or 134. The identification, classification, characteristics, and distribution of the principal forest trees of the United States, with emphasis on conifers.
- 206: Dendrology. 4-0-1. Preq., FOR 205. A continuation of FOR 205, with emphasis on hardwoods and spring and summer characteristics.
- **215:** Forests and Society. 0-3-3. For non-forestry majors. Forestry and its role in today's economic and environmental issues; factors influencing the future of forest resources in the region and nationally.
- **300:** Forest Soils. 3-2-3. Preq., CHEM 100 or 120, or permission of instructor. Physical, chemical and biological properties of forest soils and associated management problems with an emphasis on site productivity and sustainability.

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- **301:** Forestry Ecology. 4-2-3. Preq., FOR 205 and 300. Ecological factors affecting the growth and development of trees and stands.
- 302: Silviculture. 4-2-3. Preq., FOR 301 or BISC 313. An in-depth study of practices used in forest stands to regenerate, cultivate, and harvest them.
- 303: Regional Silviculture. 0-2-2. Preq., FOR 302. An assessment of the significant biological, physical and economic qualities of the forest regions of the U.S. and their effect on silvicultural practices.
- **306:** Forest Measurements. 4-2-3. Preq., MATH 101 and 212 or equivalents. Principles of sampling and measuring trees, area, forest stands, growth, and land productivity.
- 310: Forest Sustainability and Recreational Use. 4-1-2. Practices and techniques that support sustainable forestry and recreational use of southern forests.
- 312: Forest and Forest Products Entomology. 0-2-2. Study important insects affecting pine, hardwood, and urban trees in the South, including a basic overview of insects in relation to the Animal Kingdom.
- 313: Forest and Forest Products Pathology. 4-2-3. The important diseases of forests and forest products.
- 314: Wildlife Habitat Evaluation and Management, 4-2-3. Habitat requirements, evaluation, and management for wildlife.
- 315: Forest Measurements. 3 credit hours. Preq., FOR 306 and MATH 212. Execution of forest surveys; techniques of growth measurement; determination of volume of trees and stands.
- 317: Aerial Photo Interpretation & Remote Sensing, 4-2-3. Preq., FOR 306. Principles, methods, and applications of photogrammetry and remote sensing relevant to forestry, wildlife, and geomorphology.
- 318: Forest Operations. 3-2-3. Study of mechanized forest operations including all functions from timher felling to delivery of product to mill. Logging safety. Machinery costs. Forest road engineering.
- 319: Forest Products Manufacturing, 3-0-1. An in-depth look at the manufacturing processes used to produce the major forest products and tours of selected production facilities.
- **320:** Field Silviculture, 8-0-2. Preq., FOR 302. The practice of silviculture field procedures used in the southern forest to regenerate and grow tree stands.
- 322: Bottomland Hardwoods. 4-1-2. Preq., FOR 320. Silviculture and utilization of bottomland hardwoods.
- 324: GPS in Natural Resource Management. 4-1-2. Preq., FOR 317 and junior standing. Introduction to GPS applications in natural resource management.
- 355: Introduction to Geographic Information Systems (GIS). 3-2-3. Preq., GISC 255 or FOR 317 and 324 and junior standing. An introduction to geographic information systems focusing on geographic concepts, spatial data manipulation and analysis, and understanding and application of GIS software. Cannot be taken for credit if student has credit in GISC 355.
- 401: Forest Management. 0-3-3. Preq., Forestry Field Session excluding FOR 319. Managing forest properties to meet landowner objectives using growth and yield models, optimization techniques, best management practices, and sound business principles.
- **402:** Watershed Management. 3-2-3. Preq., FOR 301 and 405, or permission of instructor. Water resources and problems. Emphasis on the forest hydrologic system and its management. (G)
- **404:** Wood Technology and Products. 3-2-3. Preq., BISC 130 or 134; FOR 205. Formation, structure, identification and properties of commercial woods plus an overview of the manufacturing processes used to produce the major forest products. (G)
- 406: Forest Economics/Valuation. 4-3-4. Preq., ECON 201/202 or 215, and junior standing. Economics and financial principles as a basis for decision making in forestry. (G)
- 410: Forest Policy. 0-3-3. Preq., Forestry Field Session excluding FOR 319. The basic principles, policies, and professional ethics of federal, state, and private forestry. (G)
- **412:** Forest Tree Improvement. 0-2-2. Methods of improvement of forest trees hy use of modern plant breeding techniques. (G)
- 413: Professional Practice. 6-0-2. Preq., FOR 401, 406, and 425. Data acquisition and analysis; and development of forest resource management alternatives and recommendations. A comprehensive competency exam is administered.
- 418: Land Resource Management. 0-3-3. The socioeconomic-political policies and programs concerning the allocation of land and the management of natural resources. (G)
- 420: Problems. 1-3 semester hours credit (9). Special problems in forestry and wood utilization correlated with management of land and natural resources.

- 422: Seminar 0-1-1. Preq., Senior standing. Development of professional oral communication skills.
- 425: Forest Growth & Yield Modeling. 0-3-3. Preq., FOR 306, MATH 212, and AGSC 320 or QA 233, or STAT 200 or PSYC 300. Concepts, theories, and parameters involving the development and use of growth models; emphasizing applications to forest growth projections and management.
- **428:** Wetland Ecology. 0-3-3. Study of wetland characteristics and the ecological processes occurring within wetlands. Wetland delincation, restoration, construction and regulation will also be covered. Cannot be taken for credit if student has credit for BISC 428.
- 445: Forest Ecosystem Management. 4-2-3. Preq., junior standing or higher, or consent of instructor. Forest ecosystems of the South, their history, function, components, protection, and management. (G)
- **450:** Natural Resource Economics. 0-3-3. Tools for economic decisionmaking applied to the use and allocation of natural resources associated with agriculture. Costs and benefits of various approaches to natural resource management. (G)
- **455: Intermediate Geographic Information Systems.** 4-2-3. Preq., FOR 355 Intermediate geographic information systems technology focusing on theoretical, technical, and applied aspects of analytical GIS. Cannot be taken for credit if student has credit in GISC 455.
- 477: Practica/Internship/Cooperative Education in Forestry. 1-9 hours credit (9). (Pass/Fail). Preq., Sophomore standing, 2.0 cumulative GPA, and approval of Forestry Experiential Education Coordinator. On site, supervised, structured work experiences located within a 100 mile radius of Ruston. Application and supervision fee required.
- 478: Practica/Internship/Cooperative Education in Forestry. 1-9 hours credit (9). (Pass/Fail). Preq., Sophomore standing, 2.0 cumulative GPA, and approval of Forestry Experiential Education Coordinator. On site, supervised, structured work experiences located within a 101-200 mile radius of Ruston. Application and supervision fee required.
- 479: Practica/Internship/Cooperative Education in Forestry. 1-9 hours credit (9). (Pass/Fail). Preq., Sophomore standing, 2.0 cumulative GPA, and approval of Forestry Experiential Education Coordinator. On site, supervised, structured work experiences located beyond a 201-mile radius of Ruston. Application and supervision fee required.
- 526: Rocky Mountain Forest Resource Management. 4-2-3. Preq., consent of instructor. A study of ponderosa pine and spruce-fir ecosystems with respect to issues unique to the Central Rocky Mountains.
- **528:** Advanced Wetland Ecology. 0-3-3. Study of wetland characteristics and the ecological processes occurring within wetlands. Wetland delineation, restoration, construction and regulation will also be covered. Credit will not be given for FOR 528 if credit is given for BISC 528.

FRENCH (FREN)

- 101: Elementary French. 0-3-3 each. Conversation, reading and grammar. Statewide Transfer Agreement Course*.
- 102: Elementary French. 0-3-3 each. Preq., FREN 101. Conversation, reading and grammar. Statewide Transfer Agreement Course*.
- 201: Intermediate French. 0-3-3 each. Preq., FREN 102 or equivalent. Conversation, reading, grammar and culture. Statewide Transfer Agreement Course*.
- 202: Intermediate French. 0-3-3 cach. Prcq., FREN 201 or equivalent. Conversation, reading, grammar and culture. Statewide Transfer Agreement Course*.
- **301:** French Conversation and Composition. 0-3-3 each. Preq., FREN 202 or permission of department head. Required for major in French.
- **302:** French Conversation and Composition. 0-3-3 each. Preq., FREN 202 or permission of department head. Required for major in French.
- 304: Survey of French Literature. 0-3-3. Preq., FREN 202 or permission of department head. Required for major in French. A survey of French literature from the Middle Ages.
- **305:** Survey of French Literature. 0-3-3. Preq., FREN 202 or permission of department head. Required for major in French. A survey of French literature from the Middle Ages.
- **308:** French Civilization. 0-3-3. Preq., FREN 202 or permission of department head. Lectures and reading in history, geography, language, arts, general culture of French lands.
- 390: Francophone Children's Literature. 0-3-3. Preq., FREN 304 or 305 or permission of department head. A study of French-speaking children's stories, songs, rhymes and games.

- 400: The Drama in France. 0-3-3. Preq., FREN 304 or 305 or permission of department head. A study of the drama in France up to 1914, with reading of selective works.
- 404: Contemporary French Literature. 0-3-3. Preq., FREN 304 or 305 or permission of department head. A study of French literature from 1914 to the present with reading of selective works.
- 417: The Novel in French. 0-3-3. Preq., FREN 304 or 305 or permission of department head. A study of the novel in France, with reading of selective works.
- 428: French Literature in English Translation. 0-3-3 (9). Representative works of French literature from the Middle Ages to the 20th century; repeatable for credit with different course content. May not be counted towards a major or minor in French. Also listed as ENGL 428. (G)
- 450: The French Language. 0-3-3. Preq., 21 hours French or consent of instructor. General characteristics of the language and intense review of grammar.
- 470: French Phonetics and Oral Reading. 0-3-3. Preq., FREN 301-302 or permission of department head. Required for major in French.
- 480: Commercial French. 0-3-3. Preq., FREN 450 or consent of instructor. Study of business practices and regulation of France and Canada with emphasis on common commercial forms.

GEOGRAPHY (GEOG)

- 203: Physical Geography. 0-3-3. Fundamentals of physical and biogeography. Topics include surface and fluvial geomorphology, weather, climate, and biogeography. Statewide Transfer Agreement Course*.
- 205: Cultural Geography. 0-3-3. Discussion of the spatial patterns of the human world; people, their culture, their livelihoods, and their imprints of the landscape. Statewide Transfer Agreement Course*.
- 210: World Regional Geography. 0-3-3. Introduction to place and spatial relationships around the globe, with an emphasis on the developing world
- 290: Geography of Popular Culture. 0-3-3. Examines the patterns and processes of American popular culture. Topics include the geography of sports, music, television, movies, and popular architecture.
- 300: Historical Geography of the United States. 0-3-3. Preq., Sophomores, Juniors, and Seniors. Study of the evolution of the cultural landscape of the United States during the historical period.
- 307: Geography of the Western United States, 0-3-3. Field and classroom study of the physical and human geography of the western half of the United States.
- 310: Geography of Louisiana. 0-3-3. Open only to junior, senior and graduate students. The climate, natural regions, and resources of Louisiana; cultural development, sources and distribution of the population; settlements and agriculture.
- 312: Race and Ethnic Relations. 0-3-3. Preq., SOC 201 or GEOG 205 or 210. Factors and conditions which underlie disagreement about fundamental values; their relation to social maladjustment; evaluation of theories; group approaches to reintegration. Also listed as SOC 312.
- 321: American Landscapes. 0-3-3. Folk, vernacular, and popular landscape items are explored. Special attention is given to developing student's ability to "read" the American landscape as text.
- 380: Geographic Information Systems (GIS) and Computer Cartography. 0-3-3. Elements of map interpretation and construction; creation, manipulation, and analysis of spatially defined data.
- 440: Economic Geography. 0-3-3. A spatial perspective is used to examine economic principles. Topics include transportation, retail and industrial site location analysis, and the political/space economy.
- 470: Urban Geography. 0-3-3. Patterns and processes of large North American cities are examined. Topics covered include urban politics, race, government housing policy, urban revitalization and gentrification.
- 480: Advanced Geographic Information System and Spatial Analysis, 0-3-3. Preq., GEOG 380 or permission of instructor. Advanced techniques in Geographic Information Systems, integrated with intermediate level spatial analysis.
- 490: Perspectives on Place and Space. 0-3-3. Preq., GEOG 205 or 290, or permission of instructor. This course introduces advanced students in the social sciences to "new cultural geography" perspectives, critical theory, and cultural studies approaches to place and space.
- 501: Physical and Cultural Elements of Geography. 0-3-3.

GEOGRAPHIC INFORMATION SCIENCE (GISC)

- 255: Introduction to GeoSpatial Technologies. 3-1-2. Overview of fundamental concepts of geographic information science and related technologies, such as GPS, remote sensing, aerial photo interpretation, and GIS.
- 355: Introduction to Geographic Information Systems (GIS). 3-2-3. Preq., GISC 255 or FOR 317 and 324 and junior standing. An introduction to geographic information systems focusing on geographic concepts, spatial data manipulation and analysis, and understanding and application of GIS software. Cannot be taken for credit if student has credit in FOR 355.
- 380: Geographic Information Systems & Computer Cartography. 0-3-3. Elements of map interpretation and construction; creation, manipulation, and analysis of spatially defined data. Also listed as GEOG 380.
- 455: Intermediate Geographic Information Systems. 3-2-3. Preq., FOR 355. Intermediate geographic information systems technology focusing on theoretical, technical, and applied aspects of analytical GIS. Cannot be taken for credit if student has credit in FOR 455.
- 480: Advanced Geographic Information Systems and Spatial Analysis. 0-3-3. Preq., GEOG 380 or GISC 380. Advanced techniques in Geographic Information Systems, integrated with intermediate level spatial analysis. Also listed as GEOG 480.

GEOLOGY (GEOL)

- 111: Physical Geology. 0-3-3. Igneous, sedimentary, and metamorphic rocks; erosion of the earth by streams, oceans, winds, glaciers; phenomena of mountains, volcanoes, earthquakes; and the earth's interior.
- 112: Historical Geology. 0-3-3. Preq., GEOL 111. History of the earth as revealed in the character and fossil content of rocks.
- 121: Physical Geology Laboratory. 3-0-1. Preq., registration or credit in GEOL 111. Identification of minerals and rocks. Study of topographic maps and physiographic features shown thereon.
- 122: Historical Geology Laboratory. 3-0-1. Preq., registration or credit in GEOL 112 and 121. Introduction to fossils, geologic maps, and the geologic history of selected portions of North America.
- 200: Introduction to Oceanography. 0-3-3. A survey of the oceans; their nature, structure, origin, physical features, circulation, composition, natural resources, and relationship to the atmosphere and solid earth.
- 201: Physical and Historical Geology of the National Parks. 0-3-3. Physical processes and earth history of the U. S. National Parks. Topics include: rock types, volcanism, plate tectonics, glaciation, shoreline processes, weathering, erosion, and cave formation.
- 209: Mineralogy. 3-2-3. Preq., GEOL 111, 121, CHEM 102, 103. Crystallography and descriptive mineralogy. Occurrence, associations, and uses of minerals.
- 211: Petrology. 3-2-3. Preq., GEOL 210. Introduction to the formation and classification of rocks. Identification of rock types in hand specimen and in thin section under the petrographic microscope.
- 289: Special Topics. 1-4 hours credit. Selected topics in an identified area of geology. May he repeated for credit.
- 299: Cooperative Education Applications. 40-0-1 (7). Preq., Admission to the College of Engineering and Science Cooperative Education Program.
- 302: Introduction to Paleoecology. 3-2-3. Preq., GEOL 112, 122. Survey of invertebrate paleontology, phylum Protozoa through phylum Arthropoda. History of the science, rules of nomenclature, and environment of lower animals.
- 303: Sedimentology 3-2-3. Prcq., GEOL 111, 112, and 121, and MATH 220. Origin, composition, properties and classification of sediments and sedimentary rocks. Fluid flow, sedimentary structures and digenesis.
- 305: Stratigraphy. 0-3-3. Preq., GEOL 303. Depositional environments, sedimentary facies, correlations, basin analysis and plate tectonics.
- 315: Structural Geology. 0-2-3. Preq., GEOL 111, 112, and 121, and MATH 220. The recognition, representation, interpretation, and mechanics of rock deformation.
- 316: Map Interpretation. 6-0-2. Preq., GEOL 305 and 315. Interpretation of topographic maps, aerial photographs, geologic maps and geologic cross sections.
- 318: Environmental Geology.3-2-3. Preq., GEOL 111, 121, and MATH 220, and ENGL 102. Discussion of natural and human hazards affecting the environment, including flooding, slope stability, earthquakes, coastal hazards, resource development, water pollution, and waste disposal.
- 320: Summer Field Camp/Internship. 6 hours credit. Preq., GEOL 211, 302 and 316, ENGL 303. Course work at an approved field camp or a careerrelated internship.

- 420: Directed Study of Geologic Problems. 1-3 hrs credit. Preq., senior standing. Special topics within the student's field of interest. Maximum 3 hours credit.
- **421:** Micropaleontology. 3-2-3. Preq., GEOL 302. Study of microfossils used in correlation of well cuttings and outcrop samples, especially foraminifera.
- **422:** Environmental Remediation. 0-3-3. Preq., FOR 355. Evaluation of alternative surface and subsurface cleanup technologies with emphasis on site assessments, pilot studies, treatment techniques, and the preparation of corrective action plans. (G)
- **460: Hydrogeology.** 3-2-3. Preq., GEOL 111, 121, and 318, and MATH 220 or 112. Effect of geologic materials and processes on availability and movement of ground water with emphasis on collecting and interpreting hydrogeologic data.
- 485: Coastal Marine Geology. 8-3-4. Preq., GEOL 111, 121 or 112, 122, CHEM 101, 102, 103, 104. Geomorphological features of estuarine, coastal and continental shelf environments, erosional, depositional and geochemical processes, field and laboratory methods. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.

GERMAN (GERM)

- 101: Elementary German. 0-3-3 each. Conversation, reading, and grammar. Statewide Transfer Agreement Course*.
- 102: Elementary German. 0-3-3 each. Preq., GERM 101. Conversation, reading, and grammar. Statewide Transfer Agreement Course*.
- 201: Intermediate German. 0-3-3 each. Preq., GERM 102. Conversation reading, grammar, and culture. Statewide Transfer Agreement Course*.
- 202: Intermediate German. 0-3-3 each. Preq., GERM 201. Conversation reading, grammar, and culture. Statewide Transfer Agreement Course*.
- 301: Survey of German Literature to 1800. 0-3-3. Prcq., GERM 202 or permission of department head.
- 302: Survey of German Literature from 1800. 0-3-3. Preq., GERM 202 or permission of department head.
- 303: Classical German Literature. 0-3-3. Preq., GERM 202 or permission of department head. A study of German classicism, including Lessing, Goethe, Schiller.
- 305: Advanced German Grammar. 0-3-3. Preq., GERM 202 or permission of department head. An intensive course in German grammar with special attention to technical German.
- 307: German Conversation, 0-3-3. Preq., GERM 202 or permission of department head.
- 308: German Composition. 0-3-3. Preq., GERM 202 or permission of department head.
- **309:** German Civilization. 0-3-3. Preq., GERM 202 or permission of department head. Lectures and readings in history, geography, language, arts and general culture.

HEALTH AND EXERCISE SCIENCES (HES)

Health and Physical Education 100 to 199 activity courses will stress basic techniques, rules and participation.

- 100: Special Group Activities. 3 3/4-0-1 (2). (Pass/Fail).
- 101: Flag Football and Basketball, 3 3/4-0-2.
- 102: Volleyball and Softbail. 3 3/4-0-2.
- 107: Aerobic Running. 3 3/4-0-2. (4).
- 110: Adapted Physical Education. 3 3/4-0-2. For students not physically able to participate in regular activity courses. Statement from physician listing restrictions is required. (Pass/Fail)
- 112: Practicum. 3 3/4-0-1 (4). HPE Fitness/Wellness majors. Students assist a master teacher to learn proper methods of teaching aerobic, weight training, senior adult activities.
- 114: Varsity Sport Participation. 3 3/4-0-2 (6). Credit for varsity participation in a sport. May be repeated for up to 6 hours credit. Will not count for HPE majors/minors.
- 115: Varsity Sport Participation. 3 3/4-0-2 (6). Credit for varsity participation in a sport. May be repeated for up to 6 hours credit. Will not count for HPE majors/minors.
- 116: Varsity Sport Participation. 3 3/4-0-2 (6). Credit for varsity participation in a sport. May be repeated for up to 6 hours credit. Will not count for HPE majors/minors.
- 117: Varsity Sport Participation. 3 3/4-0-2 (6). Credit for varsity participation in a sport. May be repeated for up to 6 hours credit. Will not count for HPE majors/minors.
- 119: Basketball and Vollcyball. 3 3/4-0-2.

132: Beginning Tap Dance. 3 3/4-0-2.

- 134: Developmental Conditioning. 3 3/4-0-2 (6). Designed to improve and maintain a desirable level of aerobic fitness by various forms of appropriate physical activity.
- 141: Beginning Golf. 3 3/4-0-2. Learning basic golf skills and rules with limited play for beginning student with no experience.
- 143: Fencing. 3 3/4-0-2.
- 145: Social Dance. 3 3/4-0-2.
- 150: First Aid. 0-2-2. Lectures, discussions, and practical demonstrations of Red Cross methods in First Aid.
- 161: Square, Folk, and Country/Western Dance. 3 3/4-0-2.
- 181: Beginning Swimming. 3 3/4-0-2. Open to students who are unable to swim in deep water.
- 201: Soccer and Volleyball. 2 3/4-1-2.
- 202: Foundations of Health and Physical Education, Fitness Wellness, and Sports Science. 0-3 3/4-3. Preq., Sophomore Standing. Designed to provide physical education students with information in the professional areas of HPE, Fitness/Wellness, and Sports Science.
- 206: Fitness for the Senior Adult. 2 3/4-1-3. May be taken by senior adults for repeated credit. Senior adult exercise programs are designed utilizing chair and water exercises, strength machines, and walking.
- 207: Principles and Practices of Coaching Minor Sports. 0-2-2. Preq., Sophomore standing. Study of minor sports from viewpoint of teacher and coach.
- 210: Beginning Weight Training, 2 3/4-1-2 (4).
- 211: Powerlifting. 2 3/4-1-2 (4).
- 213: Fishing and Boating Safety. 2 3/4-1-2.
- 214: Hunting and Gun Safety. 2 3/4-1-2.
- 218: Beginning Karate. 2 3/4-1-2 (4).
- 221: Light Backpacking. 3-1-2 (6). Equipment selection, maintenance, and use; first aid and accident prevention; and basic skills for light backpacking, plus participation in three off-campus, outdoor activity sessions.
- 222: Outdoor Adventure. 3-1-2 (6). Equipment selection, maintenance, and use; first aid and accident prevention; and skills for selected outdoor, adventure activities, plus participation in three off-campus, outdoor activity sessions.
- 231: Beginning Modern Dance. 2 3/4-1-2.
- 235: Beginning Racquetball. 2 3/4-1-2.
- 241: Intermediate Golf. 2 3/4-1-2. Review of strokes, rules, and strategies. Tournament play.
- 250: Gymnastics. 2 3/4-1-2. HPE Majors Only.
- 251: Materials and Methods in Teaching Elementary School Physical Education. 1-2 3/4-3. Preq., Sophomore standing, HPE majors and minors only. Methods and materials used in teaching elementary school physical education with practical application.
- 255: Lifetime Sports Series A Racquet Sports. 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategies in racquet sports.
- 256: Lifetime Sport Series B Acrobic Conditioning/Strength Conditioning/Aquatics. 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques and physiological principles in aerobic, strength, and aquatic conditioning activities.
- 257: Lifetime Sport Series C Selected Recreational Sports. 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategics used in selected recreational sports.
- 262: Beginning Bowling. 2 3/4-1-2.
- 263: Intermediate Bowling. 2 3/4-1-2. Preq., HPE 262.
- 265: Team Sport Series A Flag Football/Soccer. 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategies in flag football and soccer.
- 266: Team Sport Series B Volleyball/Basketball. 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategics in volleyball and basketball.
- 267: Team Sport Series C Softball/Track and Field. 2 3/4-1-2. HPE majors/minors only. Emphasis on learning and teaching the fundamental skills/techniques, rules, and strategies in softball and track.
- 271: Beginning Tennis. 2 3/4-1-2. Learning basic tennis skills, fundamentals, rules, and strategy for beginning players with limited or no experience.
- 272: Beginning Badminton, 2 3/4-1-2.

^{*}This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.

- 274: Intermediate Tennis. 2 3/4-1-2. Preq., HPE 271 or intermediate skill levels. Review of tennis skills, fundamentals, rules, and strategy. Conditioning and class competition.
- 275: Aerobic Dance and Conditioning, 2-1-2 (4).
- 280: Dance Appreciation. 0-3-3. An overview of the historical, cultural and social impact of dance. Includes classifications of major dance styles, interpretations of dance and major contributors to dance.
- 281: Intermediate Swimming. 2 3/4-1-2. Open to students who can swim in deep water. Stroke development and endurance swimming are emphasized.
- 283: Lifeguard Training. 1 3/4-2-3. Preq., Level V and VI Swimming Skills. American Red Cross Lifeguard Training. Prepares and certifies individuals to assume the duties and responsibilities of lifeguards at swimming pools and protected (non-surf) open water beaches.
- **289:** Water Exercise for Fitness. 2 3/4-1-2 (6). Individualized program to enhance fitness through aquatic activity.
- 290: Personal and Community Health. 0-3-3. Designed to develop attitudes and practices which contribute to better individual and group health. Emphasis is placed upon major health problems of early adulthood.
- 292: Preventive Health and Wellness. 0-3-3. Emphasis on chronic and degenerative diseases, mental health, preventing communicable and non-communicable diseases and the role of physical fitness in preventive health.
- 293: Consumer and Environmental Health. 0-3-3. Directing the consumer in selection of health services and understanding the effect of environmental pollution.
- 294: The School Health Program. 0-3-3. A study of the administration and organization of a school health program. Emphasis on establishing such a program and utilization of available resources in school health.
- **300:** Safety Education. 0-3-3. The social, emotional, economic, and legal impact of safety and accidents in the home, at work, and in leisure/sports. activities.
- 301: Curriculum Innovations, Instructional Devices and Lab Instruction in Drivers Education. 3 3/4-3-4. In-depth study of curriculum materials and instructional devices and techniques including Simulation, Multimedia Driving Range, On-Street instruction, and Motorcycle.
- 305: Materials and Methods in Health Education in Schools, 0-3-3. Preq., HPE 290, 292, 293 and Upper Division. Includes information relative to school health education program with emphasis on methods of instruction and use of materials in schools.
- **306:** Principles and Practices of Football Coaching. 0-2-2. Preq., sophomore standing. Designed to familiarize the student with various defensive and offensive systems that contribute to a successful program.
- 307: Principles and Practices of Coaching Softball. 1-2 1/2-2. Preq., Sophomore standing. Emphasis on coaching competitive softball. Fundamental skills of offense and defense, training principles, scouting, strategy, and organization of practice are stressed.
- 308: Principles and Practices of Coaching Baseball. 0-2-2. Preq., sophomore standing. Emphasis on coaching competitive baseball. Fundamental skills of offense and defense, training principles, scouting, strategics, and organization of practice are stressed.
- 312: Principles and Practices of Basketball Coaching. 0-2-2. Preq., sophomore standing. Fundamentals of team offense and defense. Training and practice; scouting and strategy; officiating.
- 313: Principles and Practices of Volleyball Coaching. 0-2-2. Preq., sophomore standing. Fundamentals of team offense and defense. Training and practice; scouting and strategy; officiating.
- 314: Principles and Praetiees of Track and Field Coaching. 0-2-2. Preq., sophomore standing. Fundamental movements involved in the different events: staffing for the different events; training and practice; officiating.
- **316: Exercise and Sport Psychology.** 3 3/4-0-3. Preq., junior standing, Upper Division. Psychological aspects of exercise and sport with emphasis on mental preparation for athletic performance.
- 326: Applied Anatomy and Kinesiology. 0-3-3. Preq., junior standing, BISC 224, Upper Division. Analysis of movement based on a knowledge of anatomy and physiology as applied to the function of body mechanics.
- 340: Materials and Methods in Physical Education and Health Education for Elementary Schools. 5-3-3. Preq., Upper Division. To prepare the teacher for the direction of children in physical education and for developing in children desirable knowledge, skills and attitudes in health.
- **350:** Drugs and Sport. 1-3 3/4-3. Preq., HPE majors or intercollegiate athletes. Develop a knowledge of drugs, effects, sound use, preventive drug abuse, effective programs for drug education and athletes.

- **383: Water Safety Instructor.** 1 3/4-2-3. Preq., HPE 281 or Level V, VI, and VII Swimming Skills. Certifies instructor candidates to teach water safety and swimming courses.
- 401: Recreation and Leisure for the Older Adult. 0-3-3. Recreation and leisure in an aging society. Leadership, programming, and activities for older adults. Emphasis on programs in a variety of settings.
- **402:** Measurement and Evaluation in Health and Physical Education. 0-2 1/2-2. Prcq., senior standing, Upper division. Designed to familiarize the physical educator with statistical methods, measurement of physical parameters, and procedures for effective written and skill test construction and evaluation.
- **405:** Sports Medicine and First Aid. 0-2-2. Preq., upper division. Prevention, treatment and rehabilitation of athletic injuries and first aid procedures.
- 406: Health Aspects of Aging. 0-3-3. Preq., upper division. Provides an understanding of the health aspects of aging as it pertains to the biological, physiological, psychological, and sociological factors in mature adults. (G)
- 407: Exercise Prescription. 2-2-3. Preq., upper division. Provides an understanding of individualized exercise prescription design in programs to develop and maintain physical fitness through testing and re-evaluation strategies. (G)
- **408:** Physiology of Exercise. 2-2-3. Preq., upper division. Basic human physiology with emphasis on the physiological changes and residues of exercise. Concurrent with HPE 409.
- 409: Measurement of Physiology Variables. 2 1/2-0-1. Concurrent with HPE 408, upper division. Exercise physiology laboratory experience providing students with an opportunity to measure and evaluate selected physiological parameters.
- 410: The Designing, Building, and Maintenance of Sport and Physical Fitness Facilities. 0-3-3. Preq., upper division. The equipping, designing, building, and maintenance of physical fitness and sports facilities. (G)
- 414: Introducing Adapted Physical Education. 0-3-3. Preq., Upper Division. To familiarize the student with the role of adapted physical education and the physical, emotional, social and learning characteristics of exceptional children. (G)
- 415: Internship. 15-3-6. Consent of department head and within two quarters of graduation. Requires 180 clock hours in practical experiences in approved programs with department approved supervisor.
- 416: Adult Fitness Programming. 2 1/2-1-3. Preq., HPE 406, upper division. Course is designed to instruct individuals in implementation of fitness programs and management of the various facilities, which include fitness management. (G)
- 417: Motor Development, Health Processes, and Safety Procedures in Education of the Disabled. 0-3-3. Emphasis on motor development and knowledge of basic health processes and safety procedures needed to work effectively with children and adults having scrious disabling conditions.
- 418: Strength and Conditioning for Improved Performance. 3 3/4-0-3. Preq., HPE 326, 407, 408, 409, upper division. Procedures to strengthen and condition individuals in aerobic and anaerobic activities. Exercise models, performance evaluations, exercise equipment, training ethics, and professional development arc discussed. (G)
- 433: Special Problems in Health and Physical Education. 1-3 hour(s) credit(9). Consent of Department Head. Designed for selected problems in Health and Physical Education.
- 457: Materials and Methods in Teaching Middle and Secondary School Physical Education. 1-2 3/4-3. Preq., HPE 251, upper division-senior standing. Methods and materials used in teaching middle and secondary schools physical education with practical application. (G)
- 509: Tests and Measurement. 0-3-3. Using current research to select the best procedures to measure and test the student's physical fitness, motor ability, sports skills, and cognitive knowledge.
- 515: Internship. 15-3-6. Requires 220 to 240 clock hours in departmentally approved practical experiences in rehabilitation, corporate, community, educational, athletics, medical, or fitness/wellness programs.
- 516: Education for Physical Fitness. 0-3-3. Factors involved in developing, maintaining and evaluating physical fitness. Emphasis is placed on individual exercise programs, cardiovascular risk factors, and the beneficial effects of exercise.
- 518: Recent Literature and Rescarch in Physical Education, Physical Fitness and Wellness. 0-3-3. Review and evaluation of reports of recent research in physical education. Review of research methodology for analysis of both qualitative and quantitative nature.

- 519: Alcohol and Narcotics Education. 0-3-3. Research and evaluation of the effects of alcohol and narcotics.
- 520: Motor Development and Learning. 0-3-3. Nature of motor learning and development, factors affecting success in skill learning and improving physical performance.
- 521: Behavior Impairment and Physical Education. 0-2-2. Preq., HPE 414. Physical education for the severely disabled. Course focuses on disabled individuals with implications for teaching motor activities.
- 522: Observing and Teaching in Adapted Physical Education with the Behavior Impaired. 3-0-1. Preq., Concurrent with 521. Practicum in physical education for the severely disabled.
- 523: Chronic Disability and Physical Education. 0-2-2. Focus is on individuals with chronic and permanent physical disabilities, which affect motor performance with implications for selection of activities in physical education.
- 524: Observing and Teaching in Adapted Physical Education with the Chronically Disabled. 3-0-1. Preq., Concurrent with HPE 523. Practicum in physical education for the chronically and permanently disabled.
- 526: Physiology of Exercise. 0-3-3. Understanding the physiological responses of the body systems to exercise, the recovery process, and systematic training regimens.
- 529: Curriculum Construction in Physical Education. 0-3-3. Basic principles of curriculum construction in the junior high and high school with special emphasis on current trends.
- 531: Physical Education Curriculum for the Handicapped. 0-3-3. Needs of the physically and mentally handicapped as related to the physical education program. Study of specific activities, methods and evaluation.
- 532: Interscholastic Athletics. 0-3-3. Prepares the interscholastic coach to understand the purposes of state and national athletic associations, legal issues in sports, and the administration of athletic programs.
- 533: Problems in Health, Physical Education, Recreation and Athletics. 1-3 hour(s) credit (6). Consent of Department Head. Credit depends on the nature of the problem and work to be accomplished.
- 534: Mechanical Analysis of Motor Skills. 0-3-3. Analysis of the various motor skills to determine their relationship to basic mechanical principles, anatomical and kinesiological factors, laws of physics, etc.
- 536: Physiology of Exercise II. 0-3-3. Preq., HPE 526. A continuation of HPE 526 designed to enhance understanding of physiological responses to acute and chronic exercise as it relates to performance and health-related fitness.
- 539: Sports Psychology. 0-3-3. Course designed to explore the behavior of individuals participating in play, game and sports.
- 540: Sport Impact on Society. 0-3-3. The impact of sports upon the American culture with focus on competition, economics, mythology, race relations and the Olympic syndrome.
- 543: Physical Education and Sport Pedagogy. 0-3-3. The study of the research on teaching, teacher education, and curriculum in physical education and sport.
- 544: Drug Abuse Prevention, 0-3-3. Major drugs of abuse and the available alternatives to individuals involved in this behavior, particularly during pre-adolescence.
- 545: Health Promotion and Wellness. 0-3-3. A multi-level approach toward implementing preventive health programs in school and organizational settings with emphasis on stress management, smoking cessation, and injury prevention.
- 549: Advanced Theory of Sports, Games, and Athletics. 1-3 hours credit (3). Consent of instructor. Advanced theory of various sports, games, and athletics will be explored and analyzed.
- 550: Current Trends and Issues in Health, Physical Education, and Sport. 0-3-3. A survey of recent literature and research to determine current trends and issues in health, physical education, and sports.

HEALTH INFORMATION MANAGEMENT (HIM)

- 103: Introduction to Medical Terminology. 0-3-3. A basic study of the language of medicine including word construction, definition and use of terms and an elementary study of the human anatomy, structures and functions with medical terminology application.
- 107: Introduction to Health Information Management. 0-3-3. Preq. or Coreq. HIM 103. An introduction to the field of Health Information Management (HIM), professional ethics, and the basic functions of the HIM department.
- 108: Laboratory Practice in Basic Health Information Management Procedures. 3-0-1. Preq. or Coreq., HIM 107. An introduction to

applications of modern technology and software for admissions, deficiency analysis, chart assembly, data retrieval and data storage.

- 115: Healthcare Delivery Systems. 0-3-3. Preq. Minimum grade of "C" in HIM 107. An introduction to organization, financing, and delivery of health care services including accreditation standards, licensure, and regulatory agencies.
- 120: Health Records Professional Practice. 3-0-1. Preq., Minimum grade of "C" in HIM 107, 108, and 115. Health records in hospitals, nursing homes, hospice, tumor registry, home health, mental health, and specialty hospitals.
- 128: Computer Applications for Health Care Professionals. 0-3-3. Concepts of computer technology related to healthcare information and the tools and techniques for collecting, storing, and retrieving healthcare data.
- 204: Medical Transcription. 3-1-2. Preq., a minimum grade of "C" in HIM 103. Introduction to transcription of record forms and supervision of the medical transcription function.
- 207: Coding and Classifying Diseases and Procedures. 0-3-3. Preq. HIM 280. Basic coding using the latest edition of the International Classification of Diseases.
- 208: Laboratory Practice in Coding. 3-0-1. Corcq., HIM 207. Practical application and laboratory practice in coding using ICD-9-CM.
- 217: Healthcare Reimbursement. 0-3-3. Preq., or Coreq., HIM 218 and 219. A study of systems used for professional and institutional reimbursement in various healthcare settings.
- 218: Intermediate Coding/Classification Systems. 0-3-3. Preq., Minimum grade of "C" in HIM 207 and 208. Other classifications, nomenclatures, and medical vocabularies. Application of coding principles as they affect reimbursement, the prospective payment system, and ethical issues related to reimbursement.
- 219: Intermediate Coding Laboratory. 3-0-1. Corcq., HIM 218. Practice in coding inpatient and outpatient records, case-mix analysis, and PPS reimbursement methods.
- 224: Continuous Quality Improvement, Risk Management, and Utilization Review. 0-3-3. Preq. Minimum grade of "C" in HIM 107. Techniques of continuous quality improvement, utilization review, risk management, and case management.
- 226: Legal Aspects of Health Information Management. 0-2-2. Preq. HIM 107. A study of the principles of law as applied to the health field and medical record practice.
- 229: Introduction to Health Information Technology. 0-3-3. Preq., HIM 107. Concepts of computer technology related to healthcare and the tools and techniques for collecting, storing, and retrieving healthcare data.
- 234: Quality Improvement Laboratory. 3-0-1. Preq., HIM 115, and 224. Practical application of healthcare statistics, quality assessment tools, and accreditation standards.
- 235: Advanced Coding Laboratory. 3-0-1. Preq., Minimum of 2.25 GPA in the HIT curriculum. Coreq., HIM 277, or 278, or 279. All other HIT course work must be complete. Intensive study of the principles of various coding systems through practical application.
- 240: Supervisory Management for Health Care Professionals. 0-3-3. Management principles and supervisory practices for health care professionals in health care environments.
- 241: Health Information Services Laboratory, 3-0-1. Application of supervisory techniques to health information functions and services.
- 277: Practica/Internship/Cooperative Education in Health Information Management. 40-0-6. Preq., Minimum of 2.25 GPA in curriculum and course work complete. Scheduled in the quarter of graduation. On site, supervised, structured work experiences located within a 100-mile radius of Ruston. Application and supervision fee required
- 278: Practica/Internship/Cooperative Education in Health Information Management. 40-0-6. Preq., Minimum of 2.25 GPA in curriculum and course work complete. Scheduled in the quarter of graduation. On site, supervised, structured work experiences located within a 101-200 mile radius of Ruston. Application and supervision fee required
- 279: Practica/Internship/Cooperative Education in Health Information Management. 40-0-6. Preq., Minimum of 2.25 GPA in curriculum and course work complete. Scheduled in the quarter of graduation. On site, supervised, structured work experiences located beyond a 201-mile radius of Ruston. Application and supervision fee required
- 280: Introduction to Medical Science. 0-3-3. Preq., BISC 225 and 227, and minimum grade of "C" in HIM 103. A study of the nature and cause of disease.

^{*}This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.

- 299: Special Problems. 1-4 semester credit hours. Preq., consent of instructor. Selected topics in an identified area of study in Health Information Management.
- 312: Health Data Content & Structure. 0-3-3. Prog., Jr. standing. Introduction to health information systems with an emphasis on healthcare vocabulary, standards and models, and on the computer-based patient record.
- 318: Data Management in Healthcare. 0-3-3. Preq., HIM 312. Techniques employed to manage health data using computers.
- 319: Data Management in Healthcare Laboratory, 3-0-1. Preq., HIM 312. Coreq., HIM 318. Practical application of data management techniques in healthcare.
- 330: Systems Analysis In Healthcare. 0-3-3. Preq., HIM 312. Study of the clinical and business information applications in health care. Concepts, techniques, and tools associated with the systems development life cycle are included.
- 333: Introduction to Epidemiology and Applied Statistics in Health Care. 0-3-3. Concepts of epidemiology; biostatistics, vital statistics; data collection and presentation; study designs as related to health care organizations and their function.
- 417: Healthcare Research. 0-3-3. Preq., HIM 430 and Coreq. QA 233. An introduction to the application of the scientific method and research design to health information management.
- 418: Healthcare Research Laboratory, 3-0-1. Preq. or Coreq., HIM 417. Practice in abstracting medical information from healthcare records, designing data collection instruments, statistical analysis, and basic research methods used for health services and clinical research.
- 425: Information Systems in Healthcare. 0-2-2. Preq., HIM 330, HIM 318 and 319. Design, development, and implementation of health information systems.
- 430: Health Information Management. 0-3-3. Preq., MGMT 310, 470, and a minimum grade of "C" in all HIM 100- and 200-level courses in curriculum. Management principles applied to the administration of health information systems.
- 431: Laboratory Practice in Administration of the Health Information System, 3-0-1. Preq. or Coreq., IIIM 430. Laboratory practice using evaluation procedures to assist in problem-solving and decision-making.
- 440: Basic Reimbursement and Compliance for Health Care. 0-3-3. An introduction to health care policy and practice including regulatory compliance, performance improvement, reimbursement methodologies.
- 477: Practica/Internship/Cooperative Education in Health Information Management. 40-0-8. Preq., Minimum of 2.25 GPA in curriculum and course work complete. Scheduled in the quarter of graduation. On site, supervised, structured work experiences located within a 100-mile radius of Ruston. Application and supervision fee required
- 478: Practica/Internship/Cooperative Education in Health Information Management. 40-0-8. Preq., Minimum of 2.25 GPA in curriculum and course work complete. Scheduled in the quarter of graduation. On site, supervised, structured work experiences located within a 101-200 mile radius of Ruston. Application and supervision fee required
- 479: Practica/Internship/Cooperative Education in Health Information Management. 40-0-8. Preq., Minimum of 2.25 GPA in curriculum and course work complete. Scheduled in the quarter of graduation. On site, supervised, structured work experiences located beyond a 201-mile radius of Ruston. Application and supervision fee required
- 499: Special Problems: 1-4 semester credit hours. Preq., Junior standing and consent of the instructor. Selected topics in an identified advanced area of study in Health Information Management.

HISTORY (HIST)

HIST 101 and 102 are normally regarded as prerequisites for advanced non-American history courses. HIST 201 and 202 are normally regarded as prerequisites for advanced American history courses. Exceptions can be made with permission of the department head.

- 101: World History to 1500. 0-3-3. A survey of civilization of the world to 1500. Major emphasis on Western Civilization. Statewide Transfer Agreement Course*.
- 102: World History since 1500, 0-3-3. A survey of civilization of the world since 1500. Major emphasis on Western Civilizations. Statewide Transfer Agreement Course*.
- 201: History of the United States, 1492-1877. 0-3-3. A survey of American history from discovery through Reconstruction. Statewide Transfer Agreement Course*.

- 202: History of the United States, 1877 to the Present. 0-3-3. A survey of American history from Reconstruction to the present. Statewide Transfer Agreement Course*.
- 333: History of Rome. 0-3-3. A survey of the political, economic, social, and cultural history of Rome from earliest beginnings through the fifth century AD.
- 360: History of Louisiana. 0-3-3. A study of Louisiana history from early explorations to the present.
- 395: Junior Seminar in History. 0-3-3 (6). Introduction to the sources and methods of historical inquiry through in-depth group study of a specific topic, problem, or era. May be repeated for credit as topic changes.
- 402: History of American Foreign Policy. 0-3-3. A study of the development and expansion of American foreign policy from colonial beginnings to the present. (G)
- 403: History of England to 1688, 0-3-3. A study of the development of the English people from the earliest times to the accession of William and Mary. (G)
- 404: History of England since 1688. 0-3-3. A study of English political, social, and economic institutions and policies in the eighteenth, nincteenth, and twentieth centuries. (G)
- 408: Hitler's Germany. 0-3-3. A study of German history since 1862 with special emphasis on the rise and impact of Adolph Hitler and National Socialism. (G)
- 410: History of Modern Russia. 0-3-3. A survey of Russian history with special emphasis on twentieth century developments. (G)
- 413: Medicval Europe. 0-3-3. A survey of Europe from the decline of Rome to the advent of the Renaissance. (G)
- 414: Renaissance and Reformation. 0-3-3. A study of the political, economic, and cultural evolution of Europe from 1300 to 1648. (G)
- 415: History of the Christian Church. 0-3-3. A study of the rise and expansion of the Christian Church and its enormous influence on world history. (G)
- 418: Europe in the Era of the French Revolution and Napoleon. 0-3-3. A study of early modern Europe during the transition from the aristocratic era of the Old Regime to the Age of Revolutions. (G)
- 419: Nineteenth Century Europe. 0-3-3. A survey of political, economic, and cultural developments in Europe from the defeat of Napoleon 1 to the outbreak of World War I. (G)
- 420: Twentieth Century Europe. 0-3-3. A survey of political, economic, and cultural developments in Europe since the outbreak of World War I. (G)
- 423: The Civil War and Reconstruction. 0-3-3. A study of American history from the beginning of the Civil War to 1877. (G)
- 430: History of the Ancient Near East. 0-3-3. A survey of the civilizations of the Near East from carliest beginnings to 330 B. C. (G)
- 431: History of Greece. 0-3-3. A political, economic, social, and cultural study of Greek history from earliest beginnings through the Hellenistic era. (G)
- 432: The Roman Republic. 0-3-3. A study of the political, cultural, economic, and social history of Rome from earliest beginnings to the end of the Republic. (G)
- 433: The Roman Empire. 0-3-3. A study of the political, cultural, economic, and social history of Rome during the period of the Empire. (G)
- 436: History of the Modern Near East. 0-3-3. A history of the Arabie world from the fifteenth century to the present. (G)
- 440: History of Latin America to 1824. 0-3-3. A survey of Latin American history from European and Indian backgrounds to 1824. (G)
- 441: History of Latin America since 1824. 0-3-3. A survey of political, economic and social developments in Latin America since 1824, (G)
- 442: History of Mexico. 0-3-3. A survey of the political, economic, and social evolution of the Mexican nation from its Indian origins to the present. (G)
- 444: History of Central America and the Caribbean. 0-3-3. The history of Central America and the islands of the Caribbean from 1492 to the present, with emphasis on the historical roots of contemporary problems. (G)
- 447: History of China. 0-3-3. Traces the development of Chinese civilization from its earliest origins to the present.
- 450: History of the Old South. 0-3-3. A study of the political, economic, and social development of the antebellum South. (G)
- 451: History of the New South. 0-3-3. A survey of the major topies of the history of the American South from Reconstruction to the present day. (G)

- 465: Early 20th Century America. 0-3-3. A study of the social, political and economic development of the United States from 1900 to the end of the New Deal. (G)
- 466: Contemporary America. 0-3-3. An examination of United States history from World War II. (G)
- 467: Vietnam, Watergate and After: America, 1960 to the Present. 0-3-3. An intensive study of United States history from the troubled 60's to the present. (G)
- 472: History of American Ideas. 0-3-3. A survey of the major forces and ideas that have shaped American history. (G)
- 474: The American Frontier. 0-3-3. A study of the American frontier from the colonial period to 1890, with special emphasis on social and economic growth. (G)
- 475: Women in History. 0-3-3. A study of women's contributions to history with special emphasis on the role of women in different eras and societies. (G)
- 478: African-American History. 0-3-3. A survey of how African Americans have contributed to US history and culture from 1500 to the present. (G)
- 480: History of Science. 0-3-3. Preq., advanced history courses and six hours of science. A descriptive survey of the history of science and its civilizational implications. (G)
- 483: The Intellectual and Cultural History of the Western World from the Hellenic Era to the End of the Middle Ages. 0-3-3. A survey of the philosophical, cultural, religious, scientific, artistic, and literary thought and achievement of western man from the Greeks to the beginning of the Renaissance. (G)
- 484: The Intellectual and Cultural History of the Western World in Modern Times. 0-3-3. A survey of the philosophical, cultural, religious, scientific, artistic, and literary thought and achievement of western man from the Renaissance to the present. (G)
- 486: Introduction to Public History. 0-3-3. Theoretical, practical, and career issues related to the practice of history in public venues, including muscums, historical sites, and similar professional environments. (G)
- 490: Selected Topics in History. 0-3-3 (6). Readings, discussions, and lectures in an area of current interest in the discipline of history, with topic designated by instructor. May be repeated for credit as topic changes. (G)
- 495: Senior Seminar in History. 0-3-3 (6). Advanced consideration of the sources and methods of historical inquiry through in-depth group study of a specific topic, problem, or era. May be repeated for credit as topic changes.
- 505: Introduction to Historical Research and Writing. 0-3-3. Lectures, readings, discussions, and practical exercises on the sources and methods of professional historical scholarship, with students producing papers based on original research.
- 506: Seminar in American History, to 1877. 0-3-3 (6). Intensive study of a restricted topic in American history, to 1877 (excluding the American Civil War), with topic designated by instructor. May be repeated for credit as topic changes.
- 507: Seminar in American History, Since 1877. 0-3-3 (6). Intensive study of a restricted topic in American history, since 1877, with topic designated by instructor. May be repeated for credit as topic changes.
- 510: Independent Study and Research. 3 hours credit. Independent reading and research in selected history topics.
- 515: Seminar in Louisiana History. 0-3-3. Selected reading and research in Louisiana History, with particular emphasis on the twentieth century.
- 516: Seminar in Southern History, to 1860. 0-3-3 (6). Intensive study of a restricted topic in the history of the American South, to 1860, with topic designated by instructor. May be repeated for credit as topic changes. Collahorative: transmission originates @ Tech.
- 517: Seminar on the American Civil War. 0-3-3. Lectures, readings, discussion, and research on the history of the American Civil War. Collaborative: transmission originates @ ULM.
- 518: Seminar in Southern History, Since 1860. 0-3-3 (6). Intensive study of a restricted topic in the history of the American South, since 1860 (excluding the American Civil War), with topic designated by instructor. May be repeated for credit as topic changes. Collaborative: transmission originates @ ULM.
- 526: Seminar in American Civilization. 0-3-3 (6). Intensive study of a restricted topic in the social, cultural, and intellectual history of the United States, with topic designated by instructor. May be repeated for credit as topic changes. Collaborative: transmission originates @ ULM.
- 528: Seminar on American Forcign Relations. 0-3-3 (6). Intensive study of a restricted topic in the diplomatic history of the United States, with topic

designated by instructor. May be repeated for credit as topic changes. Collaborative: transmission originates @ Tech.

- 530: Seminar in Ancient History. 0-3-3. Selected reading and research topics in Ancient History.
- 535: Seminar in Medieval History. 0-3-3. Selected reading and research topics in Medieval History.
- 540: Recent European History. 0-3-3. An intensive study of a restricted subject in recent history (to be chosen by the instructor), with an introduction to scholarly research in this field.
- 543: Seminar in Latin American History. 0-3-3. Lectures, reading and research on selected topic in Latin American history.
- 545: Seminar in Near East History. 3 hours credit. Independent study, research, and writing in Near East History, with an introduction to scholarly research in this field.
- 548: Seminar in East Asian History. 0-3-3. Selected reading and research topics in East Asian History.
- 551: European Traditions, to 1650. 0-3-3 (6). Intensive study of a topic in the history of Western civilization and culture, with topic designated by instructor. May be repeated for credit as topic changes. Collaborative: transmission originates @ Tech.
- 552: European Traditions, Since 1650. 0-3-3 (6). Intensive study of a topic in the history of Western civilization and culture, with topic designated by instructor. May be repeated for credit as topic changes. Collaborative: transmission originates @ ULM.
- 560: Seminar in Military History. 0-3-3 (6). Intensive study of a topic in the history of military institutions, wars, and warfare, with topic designated by instructor. May be repeated for credit as topic changes. Collaborative: transmission originates @ ULM.
- 580: Seminar in the History of Science & Technology. 0-3-3 (6). Intensive study of a topic in the history of science and technology, with topic designated by the instructor. May be repeated for credit as topic changes. Collaborative: transmission originates @ Tech.
- 595: Current Problems in History. 0-3-3 (6). Intensive study of an issue, question, topic, or debate of current interest in the historical profession. May be repeated for credit as topic changes.

HONORS (HNRS)

- 103: Foundations of Ancient Civilization. 0-3-3. Interdisciplinary study of major works of ancient Greek, Roman, and Old Testament civilization. HONORS students only. Satisfies ENGL 101, or 102, or HIST 101 as appropriate, depending on the instructor.
- 104: Foundations of Medieval and Renaissance Civilization. 0-3-3. Interdisciplinary study of major works of Medieval and Renaissance civilization. HONORS students only. Satisfies ENGL 101, or 102, or 201 or HIST 102 as appropriate, depending on the instructor.
- 203: Foundations of Modern Civilization. 0-3-3. Interdisciplinary study of major works of major works of Modern civilization. HONORS students only. Satisfies ENGL 102, or 201, or HIST 102 as appropriate, depending on the instructor.
- 204: Foundations of American Civilization. 0-3-3. Interdisciplinary study of major works of American civilization. HONORS students only. Satisfies ENGL 102, or 202, or HIST 201 or 202 as appropriate, depending on the instructor.

HUMAN ECOLOGY (HEC)

Courses in the School of Human Ecology are also listed under: Family and Child Studies, Food and Nutrition, and Merchandising and **Consumer** Studies.

- 267: Practica in Human Ecology, 1-3 hours credit (3). (Pass/Fail). Preq., Consent of director of practica. Structured experiences in specialized areas of human ecology. Application required.
- 327: Professional Communication and Media Planning in Human Ecology. 6-1-3. Preq., SPCH 110 or consent of instructor. Application of oral and written communication techniques and skills in promotion of products and services for a variety of publics.
- 398: Seminar in Human Ecology. 0-1-1. Preq., MCS 256. A study of the diverse field of human ecology, including historical perspective, theoretical framework, career opportunities, and current and future trends.
- 405: Family and Consumer Sciences Methods. 0-3-3. An understanding of the family and consumer sciences education programs with emphasis on philosophy, principles and methods of teaching in family and consumer sciences areas.

^{*}This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.

- **406:** Special Problems in Human Ecology. 1-3 hours credit (12). Special offerings selected by student with approval of adviser. May be repeated for credit with Dean's permission. (G)
- 415: Seminar in Family and Consumer Sciences Clinical Experience. 0-1-1. Coreq., EDCI 416. Investigation, analysis, and discussion of current problems, philosophy, and trends in family and consumer sciences education.
- 457: Issues in Professional Employment. 0-1-1. Preparation to assume professional roles in the field of human ecology. Designed to be taken one or two quarters prior to graduation.
- 467: Professional Practica in Human Ecology. 1-3 hours credit (6). (Pass/Fail). Preq., consent of instructor or director of practica. Structured experiences in specialized areas of human ecology. Application required.
- 477: Practica/Internship/Cooperative Education in Human Ecology. 1-6 hours credit (9). (Pass/Fail). On site, supervised, structured work experiences located within a 100-mile radius of Ruston. Application and supervision fee required.
- 478: Practica/Internship/Cooperative Education in Human Ecology, 1-6 hours eredit (9). (Pass/Fail). On site, supervised, structured work experiences located within 101-200 mile radius of Ruston. Application and program fee required.
- 479: Practica/Internship/Cooperative Education in Human Ecology, 1-6 hours credit (9). (Pass/Fail). On site, supervised, structured work experiences located beyond a 201-mile radius of Ruston. Application and program fee required.
- 504: Methodology in Human Ecology Research. 0-3-3. Techniques and principles of design for experimental and educational research.
- 505: Family, Consumer Sciences, and Early Childhood Education Supervision. 0-3-3. The value of supervision with emphasis on responsibilities and techniques desirable for effective working relationships with student teachers.
- 506: Special Problems in Human Ecology. 1-3 hours credit (12). Preq. or Coreq., HEC 504. Supervised research of adviser approved topics. May be repeated for credit with Dean's permission.
- 507: Graduate Seminar. 0-1-1 (3). Seminar designed to increase effectiveness of professional written and oral communications, as well as increase knowledge of research.
- 515: Applied and Natural Sciences Teaching Practicum. 10-1-3. Principles and techniques in teaching a specific area of applied and natural sciences at the post secondary level. Students work with faculty and undergraduate courses in area of specialty. Application required.
- 546: Microcomputer Applications in Professional Practice. 0-3-3. Preq., one graduate-level statistics course, and M&CS 246 or satisfactory score on computer competency exam. Use of software programs in professional and research settings.
- 551: Research and Thesis. 3 hours credit or multiples thereof. Maximum credit is 6 hours. Preq. or Coreq., HEC 504 and Statistics.
- 567: Advanced Practice in Human Ecology, 15-0-3. Preq., graduate student in Human Ecology. Advanced practice experiences enabling students to apply theory in practice settings.

INDEPENDENT STUDY (ISTY)

- 498: Readings and Research. 1-3 (6) hours credit. Preq., admission to Independent Study program. Departmental course for independent research and reading. Offered by each department in the College of Liberal Arts.
- **499: Readings and Rescarch.** 1-3 (6) hours credit. Preq., admission to Independent Study program. Departmental course for independent research and reading. Offered by each department in the College of Liberal Arts.

INDUSTRIAL ENGINEERING (INEN)

- 100: Introduction to Industrial Engineering, 3-0-1. Survey of topics to introduce the student to the profession, the program, and the curriculum.
- 101: Computers in Engineering. 0-3-3. Functional characteristics of computers and the Internet; overview of programming languages and systems; HTML and JAVA applications; analysis and solution of engineering problems.
- 300: Engineering Economics. 0-2-2. Economic analysis of engineering design alternatives; present, annual, and future worth; internal rate of return and benefit/cost analysis; depreciation and tax consequences; equipment replacement.

- 301: Industrial Cost Analysis. 0-2-2. Accounting, budgeting, and control of manufacturing costs.
- 400: Engineering Statistics I. 0-3-3. Preq., MATH 242. Application of probability and distribution theory to various branches of engineering. Confidence intervals, hypothesis testing.
- 401: Engineering Statistics II. 0-3-3. Preq., INEN 400. Regression analysis, analysis of variances, quality control.
- **402:** Introduction to Operations Research. 0-3-3. Coreq. INEN 400. Linear programming, dynamic programming, project scheduling, network flow, inventory control.
- 404: Operations Research. 0-3-3. Preq., INEN 400, 402. Industrial engineering applications of queuing theory, critical path methods, project evaluation review technique (PERT), game theory, and inventory systems.
- 405: Industrial Scheduling. 0-3-3. Techniques for scheduling machines, jobs, personnel, and material in industrial environment.
- 407: Simulation. 0-3-3. Preq., INEN 400, 404. Discrete simulation methodology, emphasizing statistical basis for simulation modeling and modeling experimentation. Use of simulation modeling language to illustrate model architecture, inference, and optimization.
- 408: Manufacturing Facilities Planning. 0-3-3. Preq., MEEN 321; Coreq., INEN 410.. Detail planning for facilities location, product development, equipment and manpower requirements, production line analysis, assembly line balancing.
- 409: Work Design. 3-2-3. Prcq., INEN 400. Methods engineering, work measurement, production standards, workplace analysis and design, ergonomics.
- 410: Manufacturing Systems Management. 0-3-3. Coreq., INEN 408. Operations planning and productivity enhancement techniques for efficient management of manufacturing systems. This course will emphasize capacity planning, materials management, inventory control and warehousing.
- **411:** Industrial Engineering Design I. 0-2-2. Preq., INEN 405, 407, 408, 409, 410. Open-ended design problem using industrial engineering skills including work measurement, human factors, quality control, facilities planning, plant layout, operations research, etc.
- 412: Industrial Engineering Design II. 0-2-2. Prcq., INEN 411. Continuation of INEN 411.
- 413: Industrial Robotics and Automated Manufacturing. 3-2-3. Background, structure, drive systems, effectors and the applications of robots in industrial systems.
- 424: Seminar. 0-1-1. Instruction and practice in conference-type discussions of technical and professional matters of interest to industrial engineers.
- 425: Industrial Safety. 0-3-3. Principles of domestic and industrial safety.
- **450: Special Problems.** 1-3 hours credit. Selected topics of current interest in Industrial Engineering not covered in other courses.
- 490: Applications of Artificial Intelligence and Expert Systems in Mechanical and Industrial Engineering, 3-2-3. Introduction to artificial intelligence, expert systems and their applications in industrial, mechanical and manufacturing engineering systems. (G)
- 502: Operations Research. 0-3-3. Applications of linear programming to industrial systems, such as production and inventory control. Sensitivity analysis. Transportation and transshipment algorithms. Parametric linear programming. Convex and integer programming.
- 504: Systems Simulation. 0-3-3. The use of digital computer programs to simulate the operating characteristics of complex systems. Statistical considerations in sampling from a simulated process.
- 506: Dynamic Programming, 0-3-3. The principles of optimality. One- and two-dimensional processes Markovian decision processes. Lagrange multiplier technique.
- 507: Engineering Administration. 0-3-3. Organization of the engineering function. Measurement and evaluation of engineering activities. Project management and control. Development of engineering managers.
- 508: Human Factors in Engineering Systems. 3-2-3. Testing and instrumentation of human response to environmental conditions. Designing equipment, work place and work environment for economy and effectiveness of human work systems.
- 509: Advanced Engineering Economy. 0-3-3. Effect of income tax on decision making. Retirement and replacement analysis. Capital management. Elements of economic measurement, analysis and forecasting in the face of uncertainty.
- 512: Reliability Engineering. 0-3-3. Application of statistical theory in engineering design. Testing methods for determining reliability. Design of components and assemblies for reliability.

- 513: Inventory Control. 0-3-3. Analytical methods of determining reorder size and minimum points of various inventory system. Mathematical models with restrictions and quantity discount. Forecasting techniques and production smoothing.
- 514: Industrial Statistics. 0-3-3. Application of statistical techniques to industrial problems, relationships between experimental measurements using regression, correlation theories and analysis of variance models.
- 516: Production Planning and Sequencing. 0-3-3. Advanced methods in production planning. Sequencing criteria and algorithms. Job shop and flow shop sequencing. Computer application and simulation.
- 530: Advanced Topics in Manufacturing Automation and Robotics. 3-2-3. Advanced issues in the strategic approach to product design and manufacturing systems design. Integration of islands of automation. Product design for automation.
- 550: Special Problems. 1-4 hour(s) credit. Advanced problems in industrial engineering.
- 551: Research and Thesis in Industrial Engineering. Registration in any quarter may be for three semester hours credit or multiples thereof. Maximum credit allowed is six semester hours.
- 555: Practicum. 0-3-3 (6). Preq., 12 semcster hours of graduate work. Analytical and/or experimental solution of an engineering problem; technical literature survey required; development of engineering research literature. (Pass/Fail)
- 557: Special Topics: Industrial Engineering. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of industrial engineering. May be repeated as topics change.

INTERIOR DESIGN (IDES)

- 250: Introduction to Interior Design. 0-2-2. Introductory examination of Interior Design with topical investigations into the process of design, design elements, lighting, color, surface treatments, and space planning.
- 352: Interior Design I. 9-0-3. Studio problems in space planning and design of interior environments with emphasis on design methodology, materials, furnishing systems, and presentation.
- 353: Interior Design II. 9-0-3. Prcq., IDES 352 and ARCH 474. Continuation of IDES 352. Studio problems in space planning and design of interior environments with emphasis on design methodology, materials, furnishing systems, and presentation.
- 354: Interior Design III. 9-0-3. Preq., IDES 353. Continuation of IDES 353. Culmination of a three-course series. Studio problems in space planning and design of interior environments with emphasis on design methodology, materials, furnishing systems, and presentation.
- 355: Interior Design Theory & Issues L 0-1-1. Preq., Junior standing. Examination and analysis of the formal, contextual, conceptual, and/or operational issues associated with the use of textiles in residential and commercial interiors.
- 356: Interior Design Theory & Issues II. 0-1-1. Preq., Junior standing. Examination and analysis of the formal, contextual, conceptual, and/or operational issues associated with the use of color in residential and commercial interiors.
- 357: Interior Design Theory & Issues III. 0-1-1. Preq., Junior standing. Examination and analysis of issues associated with various specialized design practices.
- 451: Furniture Design. 6-1-3. Original student furniture design concepts are developed through a coordinated study and analysis of function, anthropometric, structures, materials, construction, and industrial processes.
- 452: Interior Design IV. 9-0-3. Preq., IDES 354. Examination of large scale commercial and/or residential interior projects with emphasis on the integration of interior environments and architectural envelopes through detail design and development.
- 453: Interior Design V. 9-0-3. Preq., IDES 452. Continued examination of large scale commercial and/or residential interior projects with emphasis on the integration of interior environments with materials and systems.
- 454: Interior Design VI. 9-0-3. Preq., IDES 453. Continued examination of large scale commercial and/or residential interior projects with emphasis on the integration of interior environments with materials and systems.
- 456: Professional Practices. 0-3-3. Preq., Junior standing. Preparation for entering the professional practice of interior design; includes office procedures, business ethics, contract documents, specifications, and market sources, etc.
- 457: History of Furniture L 0-3-3. Preq., ARCH 211, 222, and 231. History of periods of furniture design from antiquity to industrial revolution,

including study of dominant influences and characteristics of historical interiors, furnishings, and ornamental design.

- 458: History of Furniture II. 0-3-3. Preq., IDES 457. A history survey of the development of contemporary design from art Noveau to the present, including architectural elements, furniture, lighting, wallcovering, flooring, and building materials.
- 500: Design Research Methods. 0-3-3. Preq., Graduate standing or consent of instructor. An introduction to research methods applicable to the execution of scholarly investigations in the discipline of interior design.
- 510: Interior Design Graduate Studio. 12-0-4 (12). Preq., Graduate standing. Guided studio projects involving exhibition, furniture, or universal design.
- 520: Interior Design Graduate Research. 6-1-3 (9). Preq., IDES 500. Guided research projects into various aspects of interior design.
- 530: Interior Design Graduate Seminar. 0-3-3 (9). Preq., Graduate standing. Reading and discussion of current topics associated with interior design education, research, or practice.
- 540: Graduate Interior Design Internship. 20-0-6 (18). Preq., Graduate standing and consent of graduate program coordinator. Supervised interior design experience emphasizing application of principles in a research, manufacturing, or practice setting.
- 550: Research & Thesis in Interior Design. 12-0-4 (12). Preq., IDES 500. Preparation, development, and execution of a well-designed thesis under the supervision of the student's graduate committee.
- 560: Research & Project in Interior Design. 12-0-4 (8). Preq., IDES 500. Preparation, development and execution of a comprehensive design project under the supervision of the student's graduate committee.
- 570: Graduate Design Exhibition. 12-0-4. Preq., IDES 560. Preparation and installation of an exhibition of a comprehensive design project or graduate design work.

JOURNALISM (JOUR)

- 101: News Writing, 0-3-3. May be taken with ENGL 101. Beginning course in news writing. Work on "leads" and other newspaper writing basics. Typing ability required.
- 102: News Writing. 0-3-3. Preq., JOUR 101. Involves principles of interviewing, advanced reporting and specialty writing such as police reporting, consumer reporting and coverage of public affairs.
- **222:** Using the Internet for Research. 0-3-3. Use of the Internet as a means of conducting research, with particular emphasis on the World Wide Web. Discussion and practical application of Internet-based research techniques.
- 310: Copy Editing, 0-3-3. Preq., JOUR 101. Course dealing with methods of editing copy and the writing of headlines.
- 311: Advanced Copy Editing. 0-3-3. Preq., JOUR 310. Techniques of
- newspaper makeup and layout; includes writing headlines, editing wire copy, cropping and sizing photography, principles of makeup and dummying of pages.
- 320: Feature Writing, 0-3-3. Preq., JOUR 101, 102. Practical instruction in gathering material for "human interest" and feature articles of various types for magazines as well as newspapers.
- 330: Editorial Writing. 0-3-3. Preq., JOUR 101. Course in the study of fundamentals and practice in editorial writing. Course includes units on recent history and current events.
- 350: Practical Reporting, 6-0-2 (4). Open only to journalism majors or minors. Preq., JOUR 101, 102, 310, 320. Writing of articles for the university newspaper upon assignment or consultation with faculty supervisor. May be repeated for two additional semester hours' credit.
- 353: General Newspaper Work. 6-0-2 (4). Open only to journalism majors or minors. Preq., JOUR 101, 102, 310, 320. Practical lab work on university newspaper. May he repeated for two additional semester hours credit.
- 355: Practical Reporting. 6-0-2 (4). Open to majors and minors only. Preq., JOUR 101, 102, 310, 320. Practical lab work on "The Tech Talk." May be repeated for two additional semester hours credit.
- 360: Advertising. 0-3-3. Fundamental study of advertising principles, including information on major media.
- 375: People and Events. 0-3-3. Creative writing, as it applies to magazines and newspapers. A "how-to-get-published" primer, with oral and written critiques of work.
- 400: Media and the Law. 0-3-3. Prcq., 9 hours of JOUR. Emphasis on legal rights, responsibilities related to the media, and the public's right to know. Media court cases to be considered.

^{*}This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.

- 420: Civic Journalism. 6-1-3. Introduction to concepts of engaging public in civic discussions and information flow using news media. Hands-on experience in news writing and data collection and analysis.
- **440:** Media and Culture. 3-2-3. Impact of mass media on culture through lectures and laboratory experiences. Examination of historical context and current processes that shape media and culture. (G)
- **450:** Public Relations. 0-3-3. Comprehensive approach into diverse functions of the practitioner as a specialist, analyst and counselor relevant to public relations' role involving monitoring public opinion.
- 451: Advanced Practical Reporting. 6-0-3. Junior and senior majors only and by permission of instructor. Consists of practical news work in professional media, work ranging from basic news beat coverage to news writing.

LIBERAL ARTS (LBAR)

- 189: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.
- 194: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.
- 289: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.
- 294: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.
- **336:** Integrated Music and Art Appreciation. 1-2-3. Designed to prepare teacher candidates to teach art and music within the regular curriculum and as an independent subject. For elementary education majors only.
- **389:** Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.
- 394: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.
- 435: Undergraduate Research. 1 3 hours credit (6). Introduction to methods of research. Preq., consent of instructor. Credit depends on nature and depth of problem assigned.
- 489: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.
- 494: Special Topics. 1-4 hours credit (4). Selected topics in an identified area of study in the College of Liberal Arts. May be repeated for credit.
- 500: Orientation to Professional Practice. 0-3-3. This course will familiarize graduate students with the principal issues concerning professional practice in their chosen fields of study.
- 503: Special Problems. 1-3 hours credit (6). Independent study. Topics arranged to meet the needs of the student.
- 551: Research and Thesis. 3 hours credit or multiple thereof. Maximum credit allowed is 6 hours.
- 589: Special Topics. 1-4 hours credit. Preq., graduate standing. Selected topics in an identified area of study in the College of Liberal Arts.
- **594:** Special Topics. 1-4 hours credit. Preq., graduate standing. Selected topics in an identified area of study in the College of Liberal Arts.

LIBRARY SCIENCE (LSCI)

LSCI courses numbered 300 and 400 are open only to juniors and seniors.

- 201: Books and Materials for the Elementary School. 0-3-3. A study of the reading interests of children. Selection and evaluation, sources and use of materials with children. Extensive reading of children's books.
- 210: Libraries and Librarianship. 0-3-3. Introductory survey of libraries and librarianship designed for students entering the profession.
- **401:** School Library Administration. 0-3-3. Administration of the school library with emphasis on planning for effective use of library services and materials in cooperation with instructional staff. (G)
- **402:** Acquisition and Organization of Library Materials. 0-3-3. Preq., LSCI 401 or consent of instructor. Basic principles of cataloging and classifying print and non-print inaterials. Study of Dewey Decimal Classification System. (G)
- 403: Introduction to Reference Materials and Service. 0-3-3. Selection, evaluation and use of basic reference works. Practice in solution of typical reference problems. Emphasis on school library as learning center.
 (G)
- 405: Books and Materials for the Young Adult. 0-3-3. Selection, evaluation, and source utilization of print and non-print materials meeting the needs of the young adult. Extensive reading of books for the young adult. (G)

- **435:** Internship in Library Science. 1-3 hours credit (6). Preq., twelve semester hours of Library Science. Supervised library science experience in the elementary or secondary school. (Pass/Fail).
- 440: Library Automation. 0-3-3. Preq., LSCI 210, 302 or consent of instructor. Planning and implementing automated library procedures using the most current technology. (G)
- 450: Literature for Children. 0-3-3. Designed to relate understanding of child development to knowing and using print and non-print materials with children. Practical experience in story-telling and creative drama. (G)
- 451: Workshop in School Librarianship. 0-3-3 (6). Preq., professional school experience and consent of instructor. An in-depth study of school library learning center programs. May be repeated for credit when topics vary. (G)

LOUISIANA EDUCATION CONSORTIUM (LEC)

- 700: Introduction to Doctoral Research Design. 0-3-3. This course is designed to extend the student's knowledge of and expertise in areas of research design, style, and format of writing a dissertation as well as use of graduate electronic resources and statistical analysis.
- 701: Utilizing Technology for Statistical Analysis in Education. 0-3-3. This course surveys procedures for using the computer in text editing, data management, and statistical processing of research data.
- 702: Evaluation Theory and Practice. 0-3-3. This course investigates the theories and practices associated with performance evaluation, focusing on individual, instrument, and program evaluation and the decision-making processes associated with each.
- 703: Qualitative Research in Education. 0-3-3. This course examines theories and methods of qualitative educational research, including ethnography, case studies, interview studies, and document analysis.
- **704:** Sociocultural Issues in Education. 0-3-3. This course examines and analyzes sociocultural issues relating to the delivery of educational services in school districts with diverse student populations.
- 705: Problem Solving and Decision-Making Processes. 0-3-3. Applied strategies and techniques involved in problem-solving behaviors are presented. Models of decision-making are explored with emphasis on methods and processes in decision-making.
- 706: Interpersonal Communication and Conflict Resolution, 0-3-3. Methods and styles of positive interpersonal communication and techniques and methods of conflict resolution utilized by administrators and faculty are presented.
- 707: Curriculum Theory and Design. 0-3-3. This course focuses on school curriculum theory, design, revision, reform and critical issues.
- **708:** Models of Teaching: Theories and Application. 0-3-3. Preq., LEC 707 or concurrent enrollment. This courses builds the requisite knowledge and skills for selecting and implementing various teaching models congruent with specific teaching and learning needs.
- 709: Research on Effective Teaching and Learning, 0-3-3. This course examines research-based theories and practices of teaching and learning, including diagnosing student needs and selecting appropriate learning strategies.
- 710: Foundations and Procedures for Professional Development. 0-3-3. This course focuses on analysis of the professional environment with emphasis on procedural strategies for professional development as evidenced by teaching, service, and research.
- 711: Advanced Theory and Research in Educational Leadership. 0-3-3. Conceptual models used to define and explain learning organizations and the investigation of leadership roles, strategies, and methods.
- 712: Advanced Principles of Organization and Administration of Schools. 0-3-3. Organization and administration of schools, including fundamental concepts of organization, administration, and management are explored.
- 713: Foundations of Human Resource Development. 0-3-3. Theories of human resource development and exemplary models are identified and analyzed. Utilization of human resource information system technology is included.
- 714: Policy Analysis and Power Structure. 0-3-3. Educational policy processes in school administration and supervision, authority and responsibility, public policy, power structure, school boards, principalships, and superintendency roles are presented.
- 715: Advanced Content Methodology and Techniques. 0-3-3. This courses analyzes and evaluates content-specific methods, techniques, and trends for early childhood, elementary, middle and secondary education.

- 716: Problems and Issues in Curriculum and Instruction. 0-3-3. This course analyzes and evaluates current curriculum concepts and designs as well as major trends in curriculum and instruction for K 12 settings.
- 717: Grants Planning and Management. 0-3-3. Strategies are presented to identify relevant funding sources at the local, regional, and national levels and to prepare, submit, and manage effective proposals.
- 718: Principles and Practices in Instructional Supervision.0-3-3. Strategies and techniques of supervising instruction are presented and reviewed. Models of supervising instructional programs are analyzed, interpreted, and evaluated.
- 750: LEC Cognate/Elective. 1-6 hours credit. Course number used to register and pay fees for cognates and approved electives, which are not listed in the respective course databases of LEC member institutions. Course number is replaced at the end of the enrollment period by actual cognates/electives titles.
- 776: Doctoral Internship Seminar. 0-3-3. This seminar is designed to enable students to demonstrate and apply knowledge bases and dispositions acquired/refined in the other program components and courses and to share their internship experiences with other students.
- 777: Internship. 3-6 hours credit (Pass/Fail). This course is a supervised onsite educational experience in curriculum, instruction, supervision, or administration.
- **788: Research Design Seminar.** 0-3-3 (6). This course is a research seminar concentrating on the selection and utilization of qualitative and quantitative field-based research designs.
- 799: Dissertation. 3 hours credit (12).

MANAGEMENT (MGMT)

- 201: Supervisory Techniques. 0-3-3. Basic supervision of small employee groups including employee hiring and dismissal, planning and organizing work assignments, evaluating performance, necessary records, and legal aspects.
- 305: Human Resources Management for Entrepreneurs. 0-3-3. Preq., BLAW 225. Not open to Management majors. Examines the unique challenges facing entrepreneurs with regard to recruiting and managing employees, including issues in personnel law.
- 310: Management of Organizations. 0-3-3. Preq., junior standing. Introduction to fundamental principles of management practice with a particular emphasis on developing an understanding of human behavior in organizations.
- 333: Operations Management. 0-3-3. Preq., MGMT 310 and QA 233. Concepts and strategies concerning the management of production and operations processes in manufacturing and service organizations; capacity; quality and inventory management; planning and control systems.
- 340: Small Business Management and Entrepreneurship. 0-3-3. Organizing and operating the small business, with special attention to personal qualifications, capital requirements, location, sources of assistance. MGMT 350 at GSU.
- 400: Entrepreneurship/New Venture Creation. 0-3-3. A study of the entrepreneur's role in business, including an introduction to the process of developing an idea into a feasible business plan.
- 401: Internship in Management I. 3 hours credit. (Pass/Fail) Preq., consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.
- 402: Internship in Management II. 3 hours credit. (Pass/Fail) Preq., consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.
- 419: Collective Bargaining, 0-3-3. Preq., ECON 202 or 215, and MGMT 470. History of American labor union movement, collective bargaining, labor-management problems, and government and labor relations. Considerable emphasis is given to case studies. MGMT 320 at GSU. (G)
- 447: Personnel Law. 0-3-3. Preq., MGMT 470. A survey of landmark cases involving the labor movement, federal and state wage and hour laws, industrial relations and current issues in personnel law. (G)
- **460:** Purchasing and Materials Controls. 0-3-3. Prcq., MKTG 300. Principles of procurement and analysis of purchasing problems, with emphasis on quality and quantity control, pricing policy inspection, and standards of performance. (G)
- 470: Personnel Management. 0-3-3. Preq., MGMT 310. A study of the functions and procedures in personnel management with emphasis on the procurement, development, maintenance and utilization of the work force. (G)

- 472: Compensation Systems. 0-3-3. Design of total compensation systems with emphasis on compensation policies, programs, and practices including job analysis, position descriptions, job evaluation and job design.
- 475: Industrial Management. 0-3-3. Preq., MGMT 333. Management principles as applied to industrial production with emphasis on manufacturing strategy, just in time, quality control, scheduling, plant layout, and supplier relations. (G)
- 476: Systems and Operations Management. 0-3-3. Preq., MGMT 333. Advanced studies and problems in the planning, management, and control of industrial operations. Scheduling, capacity, and shop floor control are emphasized. (G)
- 477: Supply Chain Management. 0-3-3. Preq., MGMT 333. The management of the supply chain from product/process design, procurement, and manufacturing to final delivery to the consumer using the SAP information system.
- 478: Seminar in Personnel and Industrial Relations. 0-3-3. Preq., MGMT 470. Readings, problems and cases in human resource management. Analysis of current problems and future prospects are emphasized. (G)
- 485: International Business Management. 0-3-3. Preq., MGMT 310. Readings and cases in international business: governmental activities, regionalism, market opportunities, structure of international companies, company intelligence, human relations, operating policies, procedures and problems. (G)
- 510: Contemporary Management. 0-3-3. An analysis of management principles, functions, and practices with a particular emphasis on the application of theory to contemporary management issues and problems.
- 537: Human Resources Management, 0-3-3. Preq., MGMT 510 or consent of instructor. An advanced course in human resource management with an emphasis on personnel functions, within the context of the strategy, structure, and environment of contemporary organizations.
- **539:** Organization Theory. 0-3-3. Preq., MGMT 510 or consent of instructor. A macro approach to the study of complex organization emphasizing current research findings.
- 544: Advanced Production and Operations Management. 0-3-3. Preq., MGMT 510 or consent of instructor. An in-depth analysis of production/operations concepts, methods, and techniques from a systems perspective.
- 547: Seminar in Industrial Relations. 0-3-3. Preq., MGMT 510 or consent of instructor. An in-depth study of current issues in the area of labormanagement relations.
- 550: Directed Study in Management. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of management.
- 560: Materials Management. 0-3-3. Preq., MGMT 510 or consent of instructor. Basic concepts of the materials management function including quality management, MRP II, scheduling, inventory management, purchasing, materials handling, JIT, and manufacturing strategy.
- 571: Organizational Behavior. 0-3-3. Preq., MGMT 510 or consent of instructor. A seminar with emphasis on theories and concepts of the behavioral sciences relevant to the internal operations of the organization.
- 580: Seminar in Venture Assessment and Management. 0-3-3. Preq., MGMT 510 or consent of instructor. An in-depth seminar applying the tools of analysis from functional business areas to the problems of proposed and existing firms utilizing actual cases.
- 595: Administrative Policy. 0-3-3. Preq., ACCT 505, CIS 510, ECON 510, FINC 515, MGMT 510, MKTG 530, QA 525. A synthesis of the material covered in the courses required for the MBA. Specific problems and cases are used to develop executive decision-making.
- 601: Research Methods I. 0-3-3. Preq., QA 605. An in-depth study of principles, theories, objectives, techniques, and problems as applied in social science research.
- **602:** Research Methods II. 0-3-3. Preq., QA 610 and MGMT 601 or MKTG 601. A course designed to introduce the student to the collection, analysis, and interpretation of survey research data with an emphasis on the application of multivariate statistical techniques.
- 610: Current Research Issues in Management, 0-3-3. A seminar emphasizing the nature of theory and theory development and the analysis of current theoretical and empirical literature within the field of management.
- 615: Seminar in Behavioral Research Methndology. 0-3-3. May repeat one time for credit. Analysis and intensive study of research and research

methodology utilized in the behavioral sciences. The method of science as applied to management is emphasized.

- 620: Doctoral Seminar in Research. 0-3-3 (6). May be repeated one time for credit, Research on individual topics. Should be taken near completion of course work.
- 629: Organization Theory. 0-3-3. Preq., MGMT 510 or consent of instructor. Requires Doctoral standing. May require additional class meetings. A macro approach to the study of complex organization emphasizing current research findings. Credit will not be given for MGMT 629 if credit is given for MGMT 539.
- 637: Human Resources Management. 0-3-3. Preq., MGMT 510 or consent of instructor. Requires Doctoral standing. May require additional class meetings. An advanced course in human resource management with an emphasis on personnel functions, within the context of the strategy, structure, and environment of contemporary organizations. Credit will not be given for MGMT 637 if credit is given for MGMT 537.
- 639: Seminar in Strategy & Organizational Theory. 0-3-3. Preq., MGMT 510 or consent of instructor. A doctoral seminar focusing on strategy and organization theory with emphasis on theoretical and empirical research and its application.
- 644: Advanced Production and Operations Management. 0-3-3. Preq., MGMT 510 or consent of instructor. Requires Doctoral standing. May require additional class meetings. An in-depth analysis of production/operations concepts, methods, and techniques from a systems perspective. Credit will not be given for MGMT 644 if credit is given for MGMT 544.
- 645: Evolution of Management Thought. 0-3-3. Preq., MGMT 510 or consent of instructor. Seminar with emphasis on important contributions to moderu management thought as evidenced in the writings of major contributors.
- 647: Seminar in Industrial Relations. 0-3-3. Preq., MGMT 510 or consent of instructor. Requires Doctoral standing. May require additional class meetings. An in-depth study of current issues in the area of labormanagement relations. Credit will not be given for MGMT 647 if credit is given for MGMT 547.
- 650: Directed Study in Management. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of management.
- 660: Materials Management. 0-3-3. Preq., MGMT 510 or consent of instructor. Requires Doctoral standing. May require additional class incetings. Basic concepts of the materials management function including quality management, MRP II, scheduling, inventory management, purchasing, materials handling, JIT, and manufacturing strategy. Credit will not be given for MGMT 660 if credit is given for MGMT 560.
- 671: Organizational Behavior. 0-3-3. Preq., MGMT 510 or consent of instructor. Requires Doctoral standing. May require additional class meetings. A seminar with emphasis on theories and concepts of the behavioral sciences relevant to the internal operations of the organization. Credit will not be given for MGMT 671 if credit is given for MGMT 571.
- 680: Seminar in Venture Assessment and Management. 0-3-3. Prcq., MGMT 510 or consent of instructor. Requires Doctoral standing. May require additional class meetings. An in-depth seminar applying the tools of analysis from functional business areas to the problems of proposed and existing firms utilizing actual cases. Credit will not be given for MGMT 680 if credit is given for MGMT 580.
- 685: Comprehensive Exam in Management. No credit. Doctoral standing required. Required for all business administration doctoral students seeking to take the comprehensive exam in management. Successful completion is a prerequisite to the oral comprehensive exam for those seeking a primary field or examined minor in management. Requires consent of graduate director.

MARKETING (MKTG)

- 300: Marketing Principles and Policies. 0-3-3. Preq., ECON 202 or 215 and junior standing. Marketing functions; institutions; policies and strategies with their business, economic, and social implications.
- 307: Salesmanship. 0-3-3. Preq., junior standing. A study of the selling process with emphasis on the economic aspects of salesmanship and the role of the salesman in buyer-seller relationships.
- 320: Consumer Behavior. 0-3-3. Preq., junior standing. A study of the consumer and the relation to the marketing process.

- 401: Internship in Marketing I. 3 hours credit. (Pass/Fail) Preq., consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.
- 402: Internship in Marketing II. 3 hours credit. (Pass/Fail) Preq., consent of instructor and senior standing. On site, supervised, structured work experiences in the field of business.
- 420: Business Advertising, 0-3-3. Preq., MKTG 300. A study of the analysis of principles of successful advertising enabling the student to appraise their effectiveness as marketing tools and their social and economic significance. (G)
- 425: Sales Management, 0-3-3. Preq., MKTG 307 or consent of instructor. Relation of sales department to other departments; types of sales organizations, management of sales force; market analysis; price policies, sales budgets; distribution costs.
- 435: Retailing Management. 0-3-3. Preq., MKTG 300 and senior standing. Merchandise distribution by retail organization; emphasis on retailing in the distributive system and problems of management and control. (G)
- 473: Marketing Administration. 0-3-3. Preq., MKTG 320, 420, or 435, or consent. An in-depth analysis and use of marketing principles to construct marketing plans and decisions utilizing current studies, readings, and simulations.
- 482: Marketing Research. 0-3-3. Preq., QA 233. A consideration of marketing research as a management tool; application of research techniques to various marketing problems. (G)
- 485: International Marketing, 0-3-3. Preq., MKTG 300 or consent of instructor. International marketing opportunities and principles; marketing tools as a means of adapting the individual domestic business firm and its marketing methods to the international environment. (G)
- 530: Marketing Management. 0-3-3. A course to introduce the student to the role of the marketing manager in the development and implementation of strategies in the areas of products, pricing, channels, and promotion.
- 533: Advanced Marketing Research. 0-3-3. Preq., MKTG 530 or consent of instructor. An in-depth study of research philosophy, theory, objectives, techniques, and problems as applied to marketing.
- 537: Seminar in Buyer Behavior. 0-3-3. Preq., MKTG 530 or consent of instructor. An in-depth examination of the conceptual and theoretical foundations of consumer and industrial buyer behavior.
- 550: Directed Study in Marketing. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of marketing.
- 600: Survey of Marketing and Strategy. 0-3-3. Prcq., MKTG 530 or consent of instructor. A survey of the marketing literature examining theoretical and empirical research including promotion, buyer behavior, distribution, ethics, global marketing, pricing, product development, and marketing strategy.
- 601: Research Methods I. 0-3-3. Preq., QA 605. An in-depth study of principles, theories, objectives, techniques, and problems as applied in social science research.
- 602: Research Methods II. 0-3-3. Preq., QA 610 and MGMT 601 or MKTG 601. A course designed to introduce the student to the collection, analysis, and interpretation of survey research data with an emphasis on the application of multivariate statistical techniques.
- 610: Seminar in Marketing Management. 0-3-3. Preq., MKTG 530 or equivalent. A survey of two of the four elements of the marketing mix (place, price, product, and promotion). An emphasis is placed on major topics of managerial and research interest.
- 615: Seminar in Marketing. 0-3-3 (6). May be repeated one time for credit. An examination of concepts and research findings related to selected topics in marketing. Presentation and critical evaluation of reports from related disciplines.
- 620: Advanced Topics in Marketing Management. 0-3-3. Preq., MKTG 530 or equivalent. A survey of two of the four elements of the marketing mix (place, price, product, and promotion). An emphasis is placed on major topics of managerial and research interest.
- 637: Seminar in Buyer Behavior. 0-3-3. Preq., MKTG 530 or consent of instructor. Requires Doctoral standing. May require additional class meetings. An in-depth examination of the conceptual and theoretical foundations of consumer and industrial buyer behavior. Credit will not be given for MKTG 637 if credit is given for MKTG 537.
- 640: Marketing Theory. 0-3-3. Preq., MKTG 530 or equivalent. A survey of the philosophy of science and the evolution of marketing ideas, concepts, and theories. The influence and contribution of individuals to marketing concepts are emphasized.

- 650: Directed Study in Marketing, 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of marketing.
- 685: Comprehensive Exam in Marketing. No credit. Doctoral standing required. Required for all business administration doctoral students seeking to take the comprehensive exam in marketing. Successful completion is a prerequisite to the oral comprehensive exam for those seeking a primary field or examined minor in marketing. Requires consent of graduate director.

MATHEMATICS (MATH)

- 099: Preparation for College Mathematics. 0-4-4. Required if Mathematics ACT score is less than 18, or Mathematics SAT is less than 430, unless a passing score is achieved on Placement Exam A. Real numbers; exponents; polynomials and factoring; algebraic fractions; linear equations and inequalities; quadratic equations; graphing; radicals. (Pass/Fail)
- 100C/100B: College Algebra. 0-5-5. Preq., Mathematics ACT score between 18 and 21 inclusive, or Mathematics SAT score between 430 and 510 inclusive, or Placement by Exam to bypass MATH 099, or successful completion of MATH 099. MATH 100B-C covers the same material as MATH 101 and includes additional supplementary review material. Credit will not be given for MATH 100B-C if credit is given for MATH 101. Statewide Transfer Agreement Course*.

MATH100C: 0-3-3. Radical expressions; rational exponents; complex numbers; quadratic, absolute value, rational equations; systems of linear equations; inequalities; functions; conics; graphs; inverse, exponential, logarithmic functions; applications. Concurrent enrollment in the corresponding section of MATH 100B is required. Statewide Transfer Agreement Course*.

MATH100B: 2-0-2. (Pass/Fail) Supplementary review material including rational exponents, integer exponents, multiplying polynomials, factoring, rational expressions. Concurrent enrollment in the corresponding section of MATH 100C is required. A grade of S will be assigned in MATH 100B if and only if the student earns a minimum grade of D in MATH 100C. A student who drops MATH 100C and wishes to continue attending class to be better prepared for repeating MATH 100B-C may remain enrolled in MATH 100B for the remainder of the quarter. Such a student who does continue to attend class will be assigned a grade of NC in MATH100B. Statewide Transfer Agreement Course*.

- 101: College Algebra. 0-3-3. Preq., Mathematics ACT score is greater than or equal to 22, or Mathematics SAT score is greater than or equal to 520. Radical expressions; rational exponents; complex numbers; quadratic, absolute value, rational equations; systems of linear equations; inequalities; functions; conics; graphs; inverse, exponential, logarithmic functions; applications. Credit will not be given for both MATH 100 and MATH 101. Statewide Transfer Agreement Course*.
- 112: Trigonometry. 0-3-3. Preq., Mathematics ACT score is greater than or equal to 26, or Mathematics SAT score is greater than or equal to 590, or Placement by Exam or MATH 101. Solution of right triangles, reduction formulas, functions of multiple angles, trigonometric equations, inverse functions, and complex numbers. Credit will not be given for MATH 112 if credit is given for MATH 212. Statewide Transfer Agreement Course*.
- 113: Plane Geometry, 0-3-3. Preq., MATH 240. A course in plane Euclidean geometry for a student who is planning to teach high school geometry.
- 125: Algebra for Management and Social Sciences. 0-3-3. Preq., Mathematics ACT score is greater than or equal to 26, or Mathematics SAT score is greater than or equal to 590, or Placement by Exam or MATH 101. Linear and quadratic equations and functions, graphs, matrices, systems of linear equations, mathematics of finance, sets, probability and statistics, exponential and logarithmic functions.
- 203: Introduction to Number Structure. 0-3-3. Preq., MATH 101; Elementary Education majors only. Developing number sense and concepts underlying computation, estimation, pattern recognition, and function definition. Studying number relationships, systems, and theory. Applying algebraic concepts to solve problems.
- 204: Conceptual Geometry and Quantitative Analysis. 0-3-3. Preq., MATH 203; Elementary Education majors only. Studying the geometry of one, two, and three dimensions and applications to problems in the physical world. Exploring probability and statistics in real-world situations.
- 212: Applied Technical Mathematics with Calculus. 0-3-3. Preq., Mathematics ACT score greater than or equal to 26, or Mathematics SAT

score is greater than or equal to 590, or Placement by Exam, or MATH 101. Applied trigonometry, vectors, basic applied differential and integral calculus for professional aviation. Credit will not be given for MATH 212 if credit is given for MATH 112.

- 220: Applied Calculus. 0-3-3. Preq., MATH 101 and MATH 112 or Placement by Exam. Functions and graphs, the derivative, applications of derivatives, indefinite integrals, application of definite integrals. Credit will not be given for MATH 220 if credit is given for MATH 222 or 240 or 241 or 242.
- 222: Calculus for Business Administration and Economics. 0-3-3. Preq., MATH 125 or MATH 240, or placement by exam. Functions and graphs, the derivative, the indefinite integral and the definite integral; applications as applied to business and economics. Credit will not be given for MATH 222 if credit is given for MATH 220 or 241 or 242. Statewide Transfer Agreement Course*.
- 223: Applied Calculus for Electrical Technology. 0-3-3. Preq., MATH 220. Applications of calculus and differential equations to electrical technology; includes integration techniques, series, differential equations, and transforms.
- 240: Mathematics for Engineering & Science I. 2-3-3. Preq., one of (A) or
 (B): (A): High school trigonometry or MATH 112 and one of the following: Mathematics ACT score of 26 or better, or Mathematics SAT score of 590 or better, or MATH 101, or (B): MATH 100 and 112.

Functions, graphs, polynomial functions; trigonometric functions, exponential and logarithmic functions and equations; inverse functions; introduction to analytic geometry; limits; derivatives; continuity. Credit will not be given for MATH 240 if credit is given for MATH 220.

- 241: Mathematics for Engineering & Science II. 0-3-3. Preq., MATH 240. Differentiation rules; trigonometric reduction formulas, trigonometric equations, derivatives of algebraic, exponential, logarithmic, and trigonometric functions; application of differentiation; optimization. Credit will not be given for MATH 241 if credit is given for MATH 220 or 222.
- 242: Mathematics for Engineering & Science III. 0-3-3. Preq., MATH 241. Anti-differentiation, definite integrals, techniques of integration, areas and volumes, separable differential equations and linear constant coefficient differential equations (homogenous and inhomogenous). Credit will not be given for MATH 242 if credit is given for MATH 220 or 222.
- 243: Mathematics for Engineering & Science IV. 0-3-3. Preq., MATH 242. Numerical integration, improper integrals, single variable continuous statistics, vectors, three-dimensional coordinates, introduction to multivariate integration.
- 244: Mathematics for Engineering & Science V. 0-3-3. Preq., MATH 243. Triple integrals, space curves, differentiation of functions of several variables, vector calculus, Green's and Stokes' theorem.
- 245: Mathematics for Engineering & Science VI. 0-3-3. Preq., MATH 244. Infinite sequences, power series, Taylor series, elementary partial differential equations, use of series to solve differential equations, LaPlace transforms.
- 307: Fundamentals of Mathematics. 0-3-3. Preq., MATH 243. Sets, relations, functions, equations, inequalities, proofs, development of the integers and rational numbers, evaluation of experimental programs in mathematics.
- **308: Introduction to Linear Algebra.** 0-3-3. Preq., MATH 244. Matrices, systems of linear equations, vectors, vector spaces, linear transformations, eigenvalues and eigenvectors.
- 311: Discrete Mathematics I. 0-3-3. Prcq., MATH 242. Logic, sets, functions, finite and infinite sets, permutations and combinations.
- 312: Discrete Mathematics II. 0-3-3. Preq., MATH 311. Binomial and Multinomial Theorems, principle of inclusion-exclusion, recurrence relations, directed graphs, network flows, and selected topics.
- 313: Introductory Numerical Analysis. 0-3-3. Preq. MATH 243 and knowledge of FORTRAN. Introduction to numerical techniques in finding roots of equations, solving systems of equations, approximating functions, derivatives and integrals.
- 318: Introduction to Abstract Algebra. 0-3-3. Preq., MATH 307. Fundamental set concepts, groups, rings, integral domains, fields, polynomials.
- 340: Introduction to Real Analysis. 0-3-3. Preq., MATH 244 and MATH 311 or 307. A rigorous introduction to the calculus of functions of one real variable.
- 401: College Geometry. 0-3-3. Preq., MATH 113 or equivalent, and MATH 243. Logical systems and basic laws of reasoning, axiomatic geometry,

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geometric transformations, selected Euclidean geometry, non-Euclidean and projective geometrics. (G)

- **405:** Linear Algebra. 0-3-3. Preq., MATH 308. Study of linear systems, matrices, and algebra of matrices, determinants, vector spaces and subspaces, linear transformations and representations by matrices. (G)
- 407: Partial Differential Equations. 0-3-3. Preq., MATH 245. Solution of linear first order equations. Formation and solution of second order problems of parabolic, elliptic, and hyperbolic type. (G)
- 410: Advanced Engineering Mathematics, 0-3-3. Prcq., MATH 245. Mechanical systems and electrical circuits, Fourier series, Laplace transforms, partial differential equations. (G)
- **411:** Advanced Engineering Mathematics. 0-3-3. Preq., MATH 244. Vectors spaces and linear transformations, applications of matrices, vector analysis, calculus of variations. (G)
- 412: Vector and Tensor Analysis. 0-3-3. Preq., MATH 411. The algebra of vectors, differential vector calculus, differential geometry, integration, static and dynamic electricity, mechanics, hydrodynamics, and electricity, tensor analysis and Riemann geometry, further applications of tensor analysis. (G)
- 414: Numerical Analysis. 0-3-3. Preq., MATH 308, Knowledge of FORTRAN, Roots of polynomial and other nonlinear equations. Solutions of systems of simultaneous equations. Numerical applications of matrix theory and linear algebra. Interpolating polynomials. (G)
- 415: Numerical Analysis. 0-3-3. Preq., MATH 245 and 414,. Curve fitting techniques. Function approximation techniques. Numerical differentiation. Numerical integration. Numerical solution of differential equations and systems of differential equations and boundary value problems. (G)
- 416: Abstract Algebra. 0-3-3. Preq., MATH 318. Number theory, equivalences, and congruences, groups, ideals. (G)
- **430:** Projective Geometry. 0-3-3. Proq., MATH 244 and 308. Ideal elements, duality, harmonic sets, projectivity, projective theory of conics, theory of poles and polars. (G)
- 440: Linear Programming. 0-3-3. Prcq., MATH 241 and 308,. Characteristics of linear programming problems, properties of linear programming solutions, the simplex method with variations, optimality analysis, the dual problem, the transportation problem. (G)
- 441: Non-linear Programming, 0-3-3. Preq., MATH 440. Advanced topics in linear programming, quadratic programming, dynamic programming.
 (G)
- 445: Theory of Functions of Complex Variables. 0-3-3. Preq., MATH 244. Complex numbers, analytic functions, elementary functions, mapping elementary functions, integrals, power series, residues, poles, conformal mappings, applications of conformal mappings. (G)
- **450:** Ordinary Differential Equations. 0-3-3. Preq., MATH 245 and 340. First-order equations, second-order linear equations, general linear equations and systems, existence and uniqueness theorems, plane autonomous systems. (G)
- 460: Number Theory. 0-3-3. Prcq., MATH 318. Divisibility properties of integers, prime numbers, congruences, number theoretic functions. (G)
- 470: Introduction to Topology. 0-3-3. Preq., MATH 244, Introduction of concepts, metric spaces, countability axioms, separation axioms, connectedness, compactness, product spaces, continuous mappings and homeomorphisms, homotopy, quotient spaces. (G)
- 480: Introductory Analysis. 0-3-3. Preq., MATH 340. A study of functions in metric spaces-limits, continuity, integration, uniform convergence, approximations. (G)
- 490: Topics in Mathematics. 0-3-3 (6). Various topics in the field of Mathematics. May be repeated for credit. (G)
- 507: Partial Differential Equations. 0-3-3. Preq., MATH 407. Continuation of MATH 407. Existence, uniqueness, and representation of solutions, problems in bigher dimensions, Green's formulas, multiple Fourier series, Fourier transforms, boundary value problems in infinite domains.
- 510: Functional Analysis. 0-3-3. Preq., MATH 405, 470. Linear spaces, normed spaces, metric spaces, Banach spaces, Hilbert spaces.
- 511: Functional Analysis. 0-3-3. Preq., MATH 510. Linear topological spaces, metric spaces, Banach spaces, Hilbert spaces.
- 515: Numerical Analysis. 0-3-3. Preq., Consent of instructor. Numerical analysis of problems in linear algebra, norms for vectors and matrices, convergence properties of sequences and series of vectors and matrices, convergence of iterative techniques for linear systems. Numerical differentiation and integration. Numerical solutions of differential equations.

- 517: Advanced Numerical Analysis. 0-3-3. Preq., MATH 515 or consent of instructor. Curve fitting techniques. Function approximation techniques. Approximating eigen values. Numerical solutions of nonlinear systems of equations. Numerical solution of differential equation and systems of differential equations and boundary value problems.
- 520: Theory of Ordinary Differential Equations. 0-3-3. Preq., MATH 450. Existence and uniqueness theorems, dependence of solutions on a parameter, linear and nonlinear differential equations, differential inequalities, oscillation and comparison theorems, stability of solutions, perturbation theory.
- 544: Modern Operational Mathematics. 0-3-3. Preq., MATH 245. Theory and applications of transforms of Laplace and Fourier, inverse transforms by complex variable methods. Applications to analysis and linear operations.
- 545: Complex Analysis. 0-3-3. Preq., MATH 445. Rigorous development of limits, continuity, analyticity, sequences, uniform convergence, power series, exponential and trigonometric functions, conformality, linear transformations, conformal mapping and elementary Riemann surfaces.
- 551: Research and Thesis in Mathematics. 3 credit hours (6). Registration in any quarter may be for three semester hours credit or multiples thereof. Maximum credit allowed is six semester hours.
- 555: Practicum. 0-3-3 (3). (Pass/Fail) Preq., 12 semester hours of graduate work. Solution of a problem in mathematics; appropriate literature survey; development of mathematical research techniques. Maximum credit allowed is 3 hours.
- 562: Advanced Linear Algebra. 0-3-3. Preq., MATH 405. Eigenvalues, linear functionals, bilinear and quadratic forms, orthogonal and unitary transformations, normal matrices.
- 566: Advanced Abstract Algebra. 0-3-3. Preq., MATH 416. Concepts from set theory, groups, rings, integral domains, fields, extensions of rings and fields, modules, ideals.
- 574: Numerical Solution for PDE I. 0-3-3. Preq., MATH 407, 414. Finite difference schemes and their accuracy, stability, and convergence. Schemes for parabolic and hyperbolic PDEs.
- 575: Numerical Solution for PDE II. 0-3-3. Preq., MATH 407, 414, 574. Finite difference schemes for elliptic PDEs, iterative methods, and introduction to finite element methods and multigrid methods.
- 578: Probability Theory. 0-3-3. Preq., MATH 480. Probability spaces and random variables, characteristic functions and distribution functions, probability laws and types of laws, limit distributions, independent and dependent sums of random variables.
- 580: Mathematical Analysis. 0-3-3. Preq., MATH 480. Real number system, measures with emphasis on Lebesque measure, abstract integration with emphasis on the Lebesque integral.
- 584: Topics in Algebra. 0-3-3 (15). May he repeated for 3 hours credit each time.
- 586: Topics in Analysis. 0-3-3 (15). May be repeated for 3 hours credit each time.
- 587: Topics in Applied Mathematics. 0-3-3 (15). May be repeated for 3 hours credit each time.
- 588: Topics in Topology, 0-3-3 (15). May be repeated for 3 hours credit each time.
- 599: Graduate Training Seminar. 1-4 hours credit (15). Preq., Consent of instructor. Guided and/or directed study, readings, discussion, observation, and training in the teaching of college mathematics. (Pass/Fail)
- 655: Mathematical Modeling. 0-3-3. Preq., MATH 245 and STAT 620, Building deterministic and probabilistic models; applications from physical and life sciences. Transient and stationary models, stability, and optimal solutions. Model validation: acceptance, improvement, or rejection.

MECHANICAL ENGINEERING (MEEN)

- 215: Engineering Materials Laboratory. 3-0-1. Coreq., MEMT 201. A laboratory course studying the experimental behavior of engineering materials. Labs will include hardness testing, impact testing, tensile testing, and heat treating of materials.
- 292: Mechanical Engineering Computer Applications. 0-3-3. Preq., credit or registration in MATH 245. Application of modern computer programming principles to mechanical engineering problems. Numerical solutions of linear and nonlinear algebraic equations, numerical quadrature problems, and ordinary differential equations.
- 321: Manufacturing Prucesses. 3-1-2. Preq., MEMT 201 and MEEN 351. A study of the processes used in manufacturing machine parts. Designing

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for manufacturability. Laboratory is operational practice and demonstrations of machine tool, foundry, and welding.

- 334: Thermodynamics II. 0-2-2. Preq., ENGR 222. Continuation of ENGR 222. Study of gas mixtures, thermodynamic property relations, chemical reactions, combustion, and thermodynamics of fluid flow.
- 351: Computer-Aided Modeling. 3-1-2. Preq., MATH 244. Construction of virtual systems models using constructive solid geometry, swept volumes and trimmed parametric surfaces with engineering applications.
- 353: Heat Transfer. 0-3-3. Preq., MEEN 292 and ENGR 222. Fundamental concepts of heat transfer including conduction, convection, and radiation. Introduction to thermal systems design.
- 361: Advanced Mechanics of Materials. 0-3-3. Preq., MEMT 211, 312. Theories of stress and strain, failure criteria, energy methods, design for static strength, design for fatigue strength.
- 363: Dynamics of Machine Elements. 0-3-3. Preq., MEMT 312. Kinematics and kinetics of machine elements such as linkages, cams, and gear trains.
- 371: Dynamic Systems. 3-2-3. Preq., MEEN 292, MEMT 312; Coreq., ENGR 222. Modeling and design of dynamic mechanical and fluid systems. Introduction to linear vibrations and automatic controls. Numerical and Laplace transform solutions to ordinary differential equations.
- 382: Basic Measurements. 3-1-2. Preq., ENGR 221. Techniques and instruments for making and analyzing measurements in engineering.
- 400: Mechanical Engineering Seminar. 3-0-1. Preq., Senior standing. Professionalism, ethics, and service for mechanical engineers.
- 413: Composite Materials Design. 0-3-3. Preq., MEEN 361. An introduction to modern composite materials. Application of lamination theory to analysis of composites. Deformation and failure of composites. Structural design using composite materials. (G)
- 414: Failure Analysis. 0-3-3. Preq., MEEN 361. An introduction to failure analysis. Using analysis of failed parts to determine the cause of failure. Using failure analysis techniques to design to avoid failure.
- 431: Energy Conversion Systems. 0-3-3. Analysis and design of energy conversion systems. Emphasis on steam turbine and gas turbine electrical power plants. Introduction to emerging energy conversion technologies.
- **434:** Cryogenic Systems. 0-3-3. Preq., MEEN 334 or equivalent. Analysis and design of systems which produce, maintain, or utilize low temperatures; liquefaction systems; refrigeration systems; separation and purification systems; storage systems. (G)
- **435: Internal Combustion Engines.** 0-3-3. Preq., MEEN 334. Theory of IC engines. Fuels, combustion and thermodynamics. Carburation and fuel injection. Lubrication. Mechanical design of a typical engine. (G)
- **436:** Air Conditioning and Refrigeration. 0-3-3. Preq., MEEN 334 and 353. Analysis and design of heating, ventilating and air conditioning systems for residential, commercial, and industrial applications. (G)
- 446: Advanced Fluid Mechanics. 3-2-3. Preq., MEMT 313 and MATH 245. Principles of viscous fluid flow including dimensional analysis and similarity, duct flows, boundary layer flow, turbomachinery, flow measurement and control and design of fluid systems. (G)
- 448: Gas Dynamics. 0-3-3. Preq., MEEN 334 and MATH 245. Study of the fundamental laws applied to compressible fluid flow. Isentropic flow, normal and oblique shocks, Prandtl-Meyer, Fanno, Rayleigh flow and supersonic design. (G)
- 449: Introduction to Computational Fluid Dynamics. 0-3-3. The fundamentals of computational fluid dynamics (CFD); review of numerical methods and fluid mechanics; application of numerical techniques for solution of sample fluid dynamics problems.
- **450:** Special Problems. 1-4 hours credit. Preq., senior standing and consent of instructor. Topics selected will vary from term to term for the purpose of covering selected topics of current importance or special interest.
- **451:** Thermal Design. 3-2-3. Preq., MEEN 353 and MEMT 313. Design of thermal components and systems.
- **465:** Machine Element Design. 0-2-2. Prcq., MEEN 292 and 361. Application of principles of strength of materials to the design of typical machine elements.
- 469: Prevention of Mechanical Failure. 0-3-3. Preq., MEEN 361. Analysis, prediction and prevention of failures in a structure or machine part during the design phase. (G)
- 475: Mechatronics. 4-2-3. Preq., MEEN 292, MATH 245 or equivalent. A study of the interface between controllers and physical systems; principles of electromechanical design, digital and analog circuitry, actuation, sensing, embedded control, and real-time programming. (G)
- 476: Feedback Control Systems. 3-2-3. Preq., MEEN 371. The analysis, design and synthesis of mechanical systems employing feedback control.

Methods of determining system stability. Typical mechanical control elements and their transfer functions.

- 477: Mechanical Vibrations. 3-2-3. Preq., MEEN 371. Introduction to free and forced linear vibration of discrete and continuous mechanical systems. Analysis of translational and rotational systems using analytical and numerical methods.
- **478: Engineering Acoustics.** 0-3-3. Preq., MATH 245. Analysis and design of systems for noise control, including vibration isolation, silencers, room acoustic treatment and acoustic barriers. (G)
- 480: Capstone Design Project I. 3-0-1. Preq., MEEN 215, 321, 451, 465, ENGL 463, and INEN 300. Open-ended, team-based engineering design project that draws on the student's entire academic experience with emphasis on idea generation and conceptual design.
- 481: Capstone Design Project II. 3-0-1. Preq., MEEN 480. A continuation of MEEN 480 project with emphasis on detailed system design.
- 482: Capstone Design Project III. 3-0-1. Preq., MEEN 481. A continuation of MEEN 481 project with an emphasis on prototype construction and testing.
- **486: Mechanical Engineering Laboratory.** 3-0-1. Preq., ENGL 463, MEEN 353, 361, 382, MEMT 313. Design and performance of laboratory experiments in mechanical engineering.
- 488: Solids Modeling in Engineering Design. 0-3-3. Preq., Instructor's consent. Engineering design using 3-d graphics, constructive solid geometry, boundary representations, parametric surfaces and data exchange standards. (G)
- 492: Mechanical Engineering Design I. 3-1-2. Preq., MEEN 215, 321, 451, 465, ENGL 463 and INEN 300. Open-ended design problems calling for the integration of thermal sciences, machine design, economics, etc. This course will be replaced by MEEN 480, 481, and 482 after the 2004 academic year.
- **494:** Mechanical Engineering Design II. 3-0-1. Preq., MEEN 492. A continuation of MEEN 492. This course will be replaced by MEEN 480, 481, and 482 after the 2004 academic year.
- 497: Finite Element Methods for Engineers. 0-3-3. Preq., MEEN 334 and 361. Introduction to approximation methods in engineering using finite elements. Physical and mathematical theory, computer applications. (G)
- **499:** Technical Enrichment Course. 3-0-1. (6) Preq., consent of instructor. (Pass/Fail). May be repeated for a maximum of 6 hours of credit. Varying new technologies. Does not count toward graduation in Mechanical Engineering. Contact the department for more information.
- 531: Advanced Thermodynamics, 0-3-3. Fundamental laws of thermodynamics; entropy and entropy production; kinetic theory of gasses; statistical thermodynamics; quantum thermodynamics for various systems.
- 542: Advanced Heat Transfer I. 0-3-3. Steady and transient conduction heat transfer; analytical solutions; approximate solutions; numerical methods.
- 543: Advanced Heat Transfer II. 0-3-3. Continuation of MEEN 542. Principles of forced and natural convection in laminar and turbulent flow; thermal radiation.
- 545: Potential Flow. 0-3-3. Basic principles and analytical methods for the motion of an inviscid, incompressible fluid. Eulerian equations. Conformal transformation. Mapping of flows. Rotation, circulation, and vorticity.
- 546: Viscous Flow I. 0-3-3. Study of the governing principles and methods in viscous fluid flow. Solutions of the integral and differential equations for laminar flow. Digital computer applications.
- 547: Viscous Flow II. 0-3-3. Preq., MEEN 546. Study of transition, turbulence, and compressibility in viscous flow. Theory of stability of laminar flows. Fundamentals of turbulent flow.
- 549: Computational Fluid Dynamics. 0-3-3. The fundamentals of computational fluid dynamics (CFD); review of numerical methods and fluid mechanics; application of numerical techniques for solution of sample fluid dynamics problems.
- 550: Special Problems. 1-4 semester hours. Advanced problems in mechanical engineering. The problems and projects will be treated by current methods used in professional practice.
- 551: Research and Thesis in Mechanical Engineering. 3 hours credit (6). Registration in any quarter may be for three semester hours credit or multiples thereof. Maximum credit allowed is six semester hours.
- **553: Thermal Stresses.** 0-3-3. Thermal stresses in structures; plane stress problems; thermal stresses in plates and shells; thermoelastic instability; thermal fatigue, creep and inelastic thermal stresses at high temperatures.
- 555: Practicum. 0-3-3 (6). Preq., 12 semester hours of graduate work. Analytical and/or experimental solution of an engineering problem;

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technical literature survey required; development of engineering research techniques. (Pass/Fail)

- 557: Special Topics: Mechanical Engineering, 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-arcas of mechanical engineering. May be repeated as topics change.
- **566: Design Optimization.** 0-3-3. Preq., MEEN 467. Constrained nonlinear minimization algorithms applied to mechanical engineering design problems.
- 568: Advanced Vibrations. 0-3-3. Analytical and numerical treatment of nonlinear and multidegree-of-freedom vibration problems in mechanical engineering.
- 571: Advanced Engineering Dynamics. 0-3-3. Fundamentals of Newtonian dynamics principles of work and energy, D'Alembert's principle, Hamilton's principle, LaGrange equation. Central force motion, virial theorem. Rigid body motion and robotics.
- **593:** Advanced Finite Element Methods. 0-3-3. Development of the finite methods element using the variational formulation. Applications in structures, fluid mechanics and heat transfer.

MECHANICS AND MATERIALS (MEMT)

- 201: Engineering Materials. 0-2-2. Preq., ENGR 122, PHYS 201. A study of the basic principles which relate the internal structure of materials to their mechanical, physical, and electrical properties.
- 206: Statics and Strength of Materials. 3-2-3. Preq., PHYS 209. Mechanics of rigid and deformable bodies, force systems, stresses and strains, fundamental concepts of static equilibrium, centroids, moments of inertia, and friction, and basic beam design.
- 211: Intermediate Strength of Materials. 3-1-2. Prcq., ENGR 220. Mechanics of deformable bodies. Axial, shear, torsion and bending. Inelastic and indeterminate problems.
- **312:** Dynamics. 0-2-2. Preq., ENGR 220 and PHYS 201. Kinematics and kinetics of particles and solid bodies in rectilinear, rotational and plane motion, energy methods, linear impulse and momentum.
- 313: Elementary Fluid Mechanics. 3-2-3. Preq., ENGR 220 and MATH 242. Properties of fluids, fluid statics. Continuity, energy, and impulse-momentum equations. Steady flow in pipes and open channels. Fluid measurements. General fluid mechanics/hydraulics laboratory.
- 411: Advanced Engineering Materials. 0-3-3. Preq., MEMT 201 and MEEN 361. An introduction to modern engineering materials. Examination of newer materials such as high strength steels, polymers and composites.
- 508: Finite Element Analysis. 0-3-3. Linear and nonlinear finite element analysis of continual and discretized structures; use of finite element computer programs to solve typical structural problems.
- 511: Modern Engineering Materials. 0-3-3. An introduction to modern engineering materials with an emphasis on light weight or high strength materials such as polymers, composites, and high strength steels.
- 563: Theory of Elasticity. 0-3-3. General equations of elasticity; plane stress and plane strain; torsion and flexure of bars; Hertz contact stresses.
- 564: Plates and Shells. 0-3-3. Pure bending of plates; laterally-loaded plates; membrane theory of shells; bending of cylindrical and spherical shells.
- 565: Continuum Mechanics. 0-3-3. Introductory treatment of the fundamental, unifying concepts of the mechanics of continua.
- 577: Advanced Strength of Materials. 0-3-3. Energy methods, advanced bending theory, torsion, stress concentrations, failure theory and elastic stability.
- 588: Inelastic Deformation. 0-3-3. Analytical and numerical modeling of inelastic deformation in metals, polymers and ceramics, including plasticity, creep, viscoelasticity, and viscoplasticity.

MERCHANDISING AND CONSUMER STUDIES (MCS)

- 108: Professional Career Orientation. 0-2-2. Structured experiences in career assessment and exploration, leadership, and communication in the professional arena. Includes a field study tour. Open to non-majors.
- 118: Pattern Design and Construction. 6-1-3. Introduction to basic pattern making techniques, fit, and construction. Some emphasis on techniques, commercial patterns, and ready-to-wear construction.
- 146: Internet for Personal and Family Management. 0-1-1. An introduction to the use of internet for personal and family activities.
- 219: Textiles I. 0-3-3. Study of fiber properties and production of textiles.
- 238: Apparel Selection and Analysis of Fashion. 0-3-3. Contemporary apparel needs of individuals and families with recognition of cultural, economic, and psychological factors.

- 246: Microcomputers in Personal and Family Management I. 3-2-3. An introduction to the use of microcomputers for more effective management of personal and family related tasks.
- **256:** Individual and Family Management. 0-3-3. A systems approach to the management of personal and family resources.
- 258: Professional Selling Experience. 8.5-1-3. Preq., MCS 108 or consent of instructor. Supervised professional selling experience with emphasis on customer satisfaction and service. Field experience with cooperating firms.
- **268:** Apparel Design I. 3-2-3. Preq., MCS 219. Application of principles related to the creation, fabrication and execution of apparel design.
- 308: Buying, 0-3-3. Preq., MCS 258. Buying function in retail organizations. Includes merchandising concepts essential for buyers.
- 338: Intermediate Apparel Construction. 6-0-2. Preq., MCS 118 or consent of instructor. Emphasis on evaluation and use of advanced construction techniques including tailoring and couture methods.
- 348: Merchandising and Computer Management. 1-2-2. Preq., MCS 246 and 308 or consent of instructor. Plocedures and task management for the retailer through computer application.
- 356: Families as Consumers. 0-3-3. Preq., ECON 215. Application of principles of consumerism to family decisions related to time and money use.
- 366: Consumer Issues. 0-3-3. Issues that arise between sellers/government and consumers including legislation, regulation and safety issues.
- 388: Media Planning and Promotion. 3-2-3. Preq., HEC 327 and MCS 466. Study and application of principles of product promotion. Emphasis on coordination of customer targeting, communications, media presentation, and special events.
- 419: Textiles II. 0-3-3. Preq., MCS 219 or consent of instructor. Study of textile products in relation to end-use, product quality, technology and trade regulations. (G)
- 426: Housing Policy. 0-3-3. Social aspects of housing including zoning, government regulations, and purchase considerations. (G)
- 429: Issues in Merchandising. 0-3-3. Preq., junior or senior standing. Domestic and international issues affecting merchandising and consumer studics. (G)
- **436:** Advanced Individual and Family Management. 4-2-3. Preq., MCS 256, and advanced junior standing. Planning, coordinating, and evaluating all phases of individual and family management.
- **439:** Historic Costume I. 0-3-3. Development of costume from ancient Egypt through the 17th century, with emphasis on social, economic, and aesthetic influences on its design.
- 440: Historic Costume II. 0-3-3. Development of costume from 18th century until the present, with emphasis on social, economic, and aesthetic influences. (G)
- 446: Microcomputers in Personal and Family Management II. 0-3-3. Preq., MCS 246. Advanced study in the use of microcomputers in personal and family management.
- **456:** Consumer Decision Making. 0-3-3. Behavior of the consumer with reference to economic decision making and expenditure patterns relevant to current lifestyles. (G)
- 466: Consumer Relations. 0-3-3. Preq., HEC 327 or JOUR 450 or consent of instructor. Professional strategies and tactics in consumer studies programs. (G)
- 488: Visual Merchandising, 3-2-3. Preq., MCS 268 and 466 or consent of instructor. Promotion of products through visual merchandising techniques including display, store layout and design, and the fashion show.
- 498: Field Study Tour in Merchandising and Consumer Studies. 3-1-3 (6). Structured educational experiences in major industry centers in the United States. Application required. (G)
- 516: Family and Consumer Economics Issues. 0-3-3. (12) Analysis of family and consumer in the larger economic and political systems.
- 528: Consumer Motivation and Factors in Apparel. 0-3-3. Relationship of consumer behavior to fashion; analysis of factors relative to production, distribution, and consumption of apparel and textiles.
- 536: Consumer Needs of Older Population. 0-3-3. Issues facing consumer affairs professionals working with the older consumer.
- 556: Current Trends in Consumer Decision Making. 0-3-3. (12) Preq., MCS 456 or consent of instructor. Recent advances and current research in behavior of the consumer with reference to economic decision making and expenditure patterns relevant to current lifestyles.

^{*}This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at <u>http://www.regents.statc.la.us/</u> and the school you are transferring to for additional information.

MICRO SYSTEMS ENGINEERING (MSE)

- 401: Microsystems Principles. 0-3-3. Fundamentals of microsystems, emphasizing the basic principles, materials, fabrication, measurement, and applications of microsystems.
- 402: Microfabrication Principles. 0-3-3. Preq., MSE 401. Fundamentals of microfabrication processes for the realization of microelectromechanical and microelectronic devices.
- 403: Microfabrication Applications and Device Fabrication. 3-2-3. Prcq., MSE 402. Microfabrication processes, process integration and applications for the realization of microelectromechanical and microelectronic devices.
- 404: Advanced Materials for Micro/Nano Devices and Systems. 0-3-3. Preq., MSE 401. Fundamentals of advanced materials used for the realization of micro/nano devices and systems, emphasizing the properties and characteristics of various materials.
- 405: Nanotechnology Principles. 0-3-3. Fundamentals of nanotechnology, emphasizing the basic principles, materials, fabrication, measurement, and applications of nanotechnology.
- 406: Micro/Nano Scale Materials Measurements and Analysis. 0-3-3. Fundamentals of micro/nano scale materials measurements and analysis, based on modern techniques.
- 457: Special Topics: Micro Systems Engineering. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of micro systems engineering. May be repeated for a maximum of 9 credit hours with a change of course content.
- 501: Microsystems Principles, 0-3-3. Fundamentals of microsystems, emphasizing the basic principles, materials, fabrication, measurement, and applications of microsystems.
- 502: Microfabrication Principles. 0-3-3. Preq., MSE 501. Fundamentals of microfabrication processes for the realization of microelectromechanical and microelectronic devices.
- 503: Microfabrication Applications and Device Fabrication. 3-2-3. Preq., MSE 502. Microfabrication processes, process integration and applications for the realization of microelectromechanical and microelectronic devices.
- **504:** Advanced Materials for Micro/Nano Devices and Systems. 0-3-3. Preq., MSE 501. Fundamentals of advanced materials used for the realization of micro/nano devices and systems, emphasizing the properties and characteristics of various materials.
- 505: Nanotechnology Principles. 0-3-3. Fundamentals of nanotechnology, emphasizing the basic principles, materials, fabrication, measurement, and applications of nanotechnology.
- 506: Micro/Nano Scale Materials Measurements and Analysis. 0-3-3. Fundamentals of micro/nano scale materials measurements and analysis, based on modern techniques.
- 507: Advanced Microfabrication with Computer-Aided Design. 0-3-3. Preq., MSE 503. Advanced microfabrication process development and integration with the aid of computer process modeling and simulation.
- 508: Advanced Microelectronic Devices with Computer-Aided Design. 0-3-3. Preq., MSE 507 and ELEN 535. Principles of operation and analysis of advanced microelectronic devices with the aid of computer device modeling and simulation.
- 510: Microsystems Design, Fabrication, and Testing Laboratory. 8.5-1-3. Prereq., MSE 502, Coreq., MSE 503. Topics include simulation, statistical analysis, and project planning. Course requires the design, fabrication, and testing of a simple microsystem and a technical project report.
- **512:** Biotechnology Principles. 0-3-3. Fundamentals of molecular biotechnology, emphasizing the basic principles, the tools and techniques employed, and the widespread applications of this technology.
- 557: Special Topics: Micro Systems Engineering, 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-areas of micro systems engineering. May be repeated for a maximum of 9 credit hours with a change of course content.
- 609: Microsystems Analysis with Computer-Aided Design. 0-3-3. Preq., MSE 507. Principles of operations of Microsystems and their analysis with the aid of computer-based design and modeling tools.
- 610: Microsystems Design with Computer-Aided Design. 0-3-3. Preq., MSE 609. Design and development of Microsystems with the aid of computer-based design and modeling tools.

MOLECULAR SCIENCES AND NANOTECHNOLOGY (MSNT)

- 502: Research Methods. 0-3-3. An introduction to basic methods used in scientific research, including formulation of problems, literature search, proposal preparation, and communication of research findings.
- 503: Topics in Molecular Sciences and Nanotechnology, 1 3 hours credit (6). Independent study. Topics and course policies to be established by instructor for each student. May be repeated for credit up to 6 semester hours with topic change.
- 504: Molecular Sciences and Nanotechnology Seminar. 0-1-1. Supervised organization and presentation of topics from peer-reviewed literature or student's own research, as well as attendance at and recording of seminars given by others. Maximum credit applicable towards the degree is one semester hour.
- 505: Nanotechnology Principles. 0-3-3. Fundamentals of nanotechnology, emphasizing the basic principles, materials, fabrication, measurement, and applications of nanotechnology.
- 506: Nanofabrication by Self-Assembly. 0-3-3. Principles and techniques for self-assembly of films and structures on the nanometer scale. Topics covered will include Langmuir-Blodgett, nanolithography and nanodevices based on nanoassembly, layer-by-layer self-assembly techniques, and electrochemical polymerizations.
- 510: Selected Topics in Molecular Sciences. 0-3-3 (6). Topic or topics will be selected by the instructor from the various scientific disciplines that fall under the umbrella of molecular sciences. May be repeated for credit up to 6 semester hours with topic change.
- 511: Selected Topics in Nanotechnology. 0-3-3 (6). The topic or topics will be selected so as to expose students to current research areas in nanotechnology. May be repeated for credit up to 6 semester hours with topic change.
- 521: Principles of Cell and Molecular Biology. 0-3-3. Principles of cell and molecular biology, including molecular structure and function, cellular processes, bioenergetics, and regulation of metabolism.
- 549: Practicum in Molecular Sciences and Nanotechnology. 0-3-3. (Pass/Fail). Preq., 12 semester hours of graduate work. Experimental or computational study of a relevant problem in one of molecular sciences and nanotechnology research areas.
- 551: Research and Thesis in Molecular Sciences and Nanotechnology. (Pass/Fail). Preq., 12 semester hours of graduate work. Registration in any quarter is for three semester hours credit or multiples thereof. Maximum credit applicable towards the degree is six semester hours.

MUSIC APPLIED, CLASSES & RECITALS (MUAP)

- 100: General Recital. 1-0-0. A weekly, live performance laboratory for all music majors and minors taken concurrently with private lessons. Includes evening recital and concert attendance as required by the respective private lesson studio.
- 102: Class Voice. 1-1-1. Group instruction in the techniques of the singing voice.
- 111: Class Piano I Major. 3-0-1. Prcq., Permission of instructor. Introduction to the piano for the music major. Students work on reading two clefs, basic piano technique, sightreading, and repertory.
- 112: Class Piano II Major. 3-0-1. Preq., MUAP 111 or permission of instructor. Continuation of MUAP 111, with more fundamental playing skills. Students work on two octave scales, harmonization, sightreading, and repertory.
- 113: Class Piano II Major. 3-0-1. Preq., MUAP 112 or permission of instructor. Continuation from MUAP 112. Students work on more advanced playing skills, improvisation, and score-reading.
- 232: French Diction. 1-1-1. Pronunciation of French art song (melodie).
- 233: Italian Diction. 1-1-1. Pronunciation of Italian art song.
- 234: German Diction. 1-1-1. Pronunciation of German art song (Lieder).
- 399: Undergraduate Recital. 1-0-0. Preq., Recital Committee approval. For all music majors, preparation and performance of a degree recital of not less than 25 minutes of music.
- **499:** Undergraduate Recital. 1-0-0. Preq., Recital Committee approval. For Bachelor of Fine Arts in Music Performance degree candidates, preparation and performance of a degree recital of not less than 50 minutes of music.

MUSIC APPLIED, PRIVATE LESSONS (MUPV)

Music Applied courses refer to private lessons taken in the appropriate studio in an area declared by the student. In order to be eligible to register for 400level courses a student must pass an upper-division jury. This is usually done in the Spring of the Sophomore year. This rule applies only to music majors. Non-music majors may enroll at the 100 level according to the limitation of the applied instructor's schedule. All students must have the approval of the applied music instructor before registering for private lessons.

Minor Level

These courses are designed for students electing to minor in music, majors studying a secondary instrument, and non-music majors. Students register in the specific area or instrument as designated by the course number. Students minoring in music must also register for MUAP 100: General Recital concurrently with private study.

111: Applied Piano - Minor. 1-0-1.

- 121: Applied Organ Minor. 1-0-1.
- 131: Applied Voice Minor. 1-0-1.
- 151: Applied Violin Minor, 1-0-1.
- 152: Applied Viola Minor. 1-0-1.
- 153: Applied Cello Minor. 1-0-1.
- 154: Applied Bass Minor, 1-0-1.
- 155: Applied Guitar Minor. 1-0-1.
- 161: Applied Flute Minor. 1-0-1.
- 162: Applied Oboe Minor. 1-0-1.
- 163: Applied Bassoon Minor. 1-0-1.
- 164: Applied Clarinet Minor. 1-0-1.
- 165: Applied Saxophone Minor. 1-0-1.
- 171: Applied Trumpet Minor. 1-0-1.
- 172: Applied French Horn Minor. 1-0-1.
- 173: Applied Trombone Minor. 1-0-1.
- 174: Applied Euphonium Minor. 1-0-1.
- 175: Applied Tuba Minor. 1-0-1
- 181: Applied Percussion Minor. 1-0-1.
- 191: Applied Composition Minor. 3-0-1.
- Lower Division

These courses are designed for the music major studying privately at the lower division level whose declared major is in the specific area designated by the course number. The letter "A" is added to the end of the course number to indicate 1 hour of credit and the letter "B" indicates 2 hours of credit.

211: Applied Piano - Major. 1-2 semester hours.

- 221: Applied Organ Major. 1-2 semester hours. 231: Applied Voice - Major. 1-2 semester hours.
- 251: Applied Violin Major. 1-2 semester hours.
- 252: Applied Viola Major, 1-2 semester hours.
- 253: Applied Cello Major. 1-2 semester hours.
- 254: Applied Bass Major. 1-2 semester hours.
- 255: Applied Guitar Major. 1-2 semester hours.
- 261: Applied Flute Major. 1-2 semester hours.
- 262: Applied Oboe Major. 1-2 semester hours.
- 263: Applied Bassoon Major. 1-2 semester hours.
- 264: Applied Clarinet Major. 1-2 semester hours.
- 265: Applied Saxophone Major. 1-2 semester hours.
- 271: Applied Trumpet Major. 1-2 semester hours.
- 272: Applied French Horn Major. 1-2 semester hours.
- 273: Applied Trombone Major. 1-2 semester hours.
- 274: Applied Euphonium Major. 1-2 semester hours.
- 275: Applied Tuba Major. 1-2 semester hours.
- 281: Applied Percussion Major. 1-2 semester hours.

Upper Division

These courses are designed for the music major studying privately at the upper division level whose declared major is in the specific area designated by the course number. Students must have passed the upper division exam to be eligible. The letter "A" is added to the end of the course number to indicate 1 hour of credit and the letter "B" indicates 2 hours of credit. 411: Applied Piano - Major. 1-2 scmester hours. 421: Applied Organ - Major, 1-2 semester hours. 431: Applied Voice - Major. 1-2 semester hours. 451: Applied Violin - Major. 1-2 semester hours.

- 452: Applied Viola Major. 1-2 semester hours.
- 453: Applied Cello Major. 1-2 semester hours.
- 454: Applied Bass Major. 1-2 semester hours.

461: Applied Flute - Major. 1-2 semester hours.

- 462: Applied Oboe Major. 1-2 semester hours.
- 463: Applied Bassoon Major. 1-2 semester hours.
- 464: Applied Clarinet Major. 1-2 semester hours.
- 465: Applied Saxophone Major. 1-2 semester hours. 471: Applied Trumpet - Major. 1-2 semester hours.
- 472: Applied French Horn Major. 1-2 semester hours. 473: Applied Trombone - Major. 1-2 semester hours.
- 474: Applied Euphonium Major. 1-2 semester hours.
- 475: Applied Tuba Major. 1-2 semester hours.
- 481: Applied Percussion Major. 1-2 semester hours.

MUSIC DIRECTED STUDIES (MUDS)

450: Directed Studies. 1-4 semester hours (6). Preq., consent of advisor. Selected study in an identified area in Music. Credit depends on the nature of problem and work accomplished. May be repeated for credit,

550: Directed Studies. 1-4 semester hours (6). Preq., consent of advisor. Selected study in an identified area in Music. Credit depends on the nature of the problem and work accomplished. May be repeated for credit.

MUSIC ENSEMBLE (MUEN)

Students of Freshman or Sophomore standing sign up for 200 level. Students who have achieved Junior or Senior level standing sign up for 400 level.

- 200/400: Chamber Ensemble. 1-0-1 (6). Instruction and performance in small instrumental or vocal ensembles.
- 231/431: University Concert Choir. 4-0-1 (12). Preq., audition. Major Ensemble. Instruction and performance in large vocal ensemble.
- 232/432: Chamber Singers. 2-0-1 (12). Preq., audition. Major Ensemble. Instruction and performance in advanced vocal ensemble.
- 233/433: Gospel Choir. 2-0-1 (6). Instruction and performance in vocal ensemble with emphasis on ethnic, religious material.

234/434: Opera Workshop, 1-0-1 (3). A function study in opera performance including vocal, dramatic, and technical aspects of opera production.

- 251/451: Chamber Orchestra. 4-0-1 (6). Preq., audition. Instruction and performance in string ensemble.
- 260/460: Musical Stage Orchestra. 3-1-2 (8). Orchestral experience with literature and techniques of music theatre.
- 261/461: Musical Stage Production. 3-1-2 (8). Practical study of theories, practices and techniques of musical stage production.
- 271/471: University Marching Band. 4-0-1 (4). Preq., audition required. Major Ensemble. Instruction and performance in the college marching band. Includes performance in designated football games, bowl games, pep rallies and other presentations as directed.
- 272/472: Fall Wind Ensemble. 1-0-1 (2). Preq., audition. Open to any major. Instruction and performance in concert band. Includes reading and study of selected works from the major standard band repertoire for participating music majors.
- 273/473: Symphonic Wind Ensemble. 4-0-1 (4). Preq., audition. Major ensemble. Instruction and performance in advanced band ensemble.
- 274/474: University Concert Band. 4-0-1 (4). Preq., audition. Major ensemble. Instruction and performance in band ensemble.
- 275/475: University Jazz Ensemble. 3-0-1 (6). Preq., audition. Performance and instruction in stage band ensemble covering a variety of jazz styles and genres.
- 276/476: Low Brass Ensemble. 3-0-1 (6). Preq., consent of instructor. Performance and instruction in low brass ensembles and literature.
- 281/481: Percussion Ensemble. 2-0-1 (6). Preq., audition. Performance and instruction in the various combinations of percussion ensemble.

MUSIC GENERAL (MUGN)

- 112: Beginning Piano. 2-0-2 (6). Preq., consent of instructor. Instruction in beginning piano techniques for the non-music major.
- 152: Beginning Guitar. 2-0-2 (6). Preq., consent of instructor. Instruction in beginning guitar techniques for the non-music major.
- 290: Music Appreciation. 0-3-3. Satisfies General Education Requirement for Fine Arts Appreciation. For non-music majors. Attempts to answer the question "What is Music?" by acquainting students with knowledge and appreciation of music from several cultures and eras. Statewide Transfer Agreement Course*.
- 400: Beginning Your Music Career. 0-3-3. Prcq., consent of instructor. Course designed to prepare students for a career in music.

*This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.

^{455:} Applied Guitar - Major, 1-2 semester hours.

MUSIC HISTORY AND LITERATURE (MUHS)

- 101: Music Literature I. 0-2-1. A broad survey of music literature from the Middle Ages to the Early Baroque. Includes selected music of Native American peoples.
- **102:** Music Literature II. 0-2-1. A broad survey of music literature from the Baroque through the Classical era.
- 103: Music Literature III. 0-2-1. A broad survey of music literature from the Romantic era to the modern era. Includes selected world music.
- **301:** Music History I. 0-2-2. Preq., MUTH 102 or permission of instructor. A survey of the specific periods of music and its literature, from antiquity through the Renaissance.
- 302: Music History II. 0-2-2. Preq., MUTH 102 or permission of instructor. Continuation from MUHS 301, from the Baroque and into the Classical era.
- 303: Music History III. 0-2-2. Preq., MUTH 102 or permission of instructor. Continuation from MUHS 302, from the Romantic to the present era. Includes music of sub-Saharan Africa and Indonesia.
- **306:** Introduction to Non-Western Music, 0-2-2. Preq., MUHS 305 or permission of instructor. An introduction to the music and musical life of the world's peoples by sampling and by synthesis.
- 307: Introduction to Jazz History. 0-2-2. Preq., MUHS 305 or permission of instructor. Cultivate in the music major an understanding of jazz music through a comprehensive study of major artists and styles from 1900 to the present.
- 410: Piano Literature. 0-3-3. A survey of piano literature from the Classic Period to the present including literature composed for earlier keyboard instruments.
- 430: Vocal Literature. 0-3-3. A survey of vocal literature covering a wide diversity of composers, styles, and historical periods through discussion and analysis of representative works including assignments in listening, performance, and reading.
- 431: Choral Literature. 0-2-2. A survey of choral literature covering a diversity of composers, styles, and historical periods through discussion and analysis of representative works.
- **432:** Survey of Opera. 0-3-3. Preq., permission of instructor. Designed to cultivate in students an understanding and enjoyment of opera by surveying selected, significant operatic works through viewing and analysis.
- 433: Survey of American Music Theatre. 0-3-3. Preq., MUGN 290 or SPTH 290. Designed to increase the understanding and appreciation of the American Music Theatre genre through the study of musical theatre works, composers, lyricists, directors, and performers.

MUSIC PEDAGOGY (MUPD)

- 200: Teaching Techniques Middle School Band. 3-0-1. Teaching techniques for middle school band put into practice through hands on teaching with the A.E. Phillips Lab School Band.
- **300:** Beginning Conducting. 1-1-1. Elementary methods, principles and practice of conducting.
- **301:** Choral Conducting, 1-2-2. Preq., MUTH 201 and MUPD 300. Principles of interpretation and score reading with emphasis on choral conducting. Includes laboratory experience with the choral ensembles.
- 302: Instrumental Conducting. 1-2-2. Preq., MUTH 201 and MUPD 300. Principles of interpretation and score reading with emphasis on instrumental conducting. Includes laboratory experience with the instrumental ensembles.
- **303:** Instruments, 1-1-1. Preq., MUTH 102. Group instruction in the functional knowledge of wind, string, fretted, and percussion instruments for vocal majors.
- **304:** Marching Band Drill Design. 3-0-1. This course provides practical application in the elements of marching band show planning, design, and teaching.
- 311: Piano for Vocal Educatinn. 2-0-2. Preq., students must have passed all parts of the piano proficiency exam and have the consent of the instructor. Experiences in improvising, transposing and performing vocal accompaniments at the piano. These skills are required for vocal music education majors.
- 331: Vocal Methods. 1-1-1. Group instruction in the singing voice including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.
- 334: Elementary Teachers Appreciation/Methods. 0-3-3. Provides an understanding and appreciation of the elements of music.

- 351: String Methods. 2-0-1. Group instruction in strings including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.
- 352: Guitar Methods. 2-0-1. Group instruction in fretted instruments including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.
- 361: Flute Methods, 2-0-1. Group instruction in flute including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.
- 362: Single Reed Methods. 2-0-1. Group instruction in single reed instruments including methods and materials of instruction for the music educator. Includes laboratory experiences and observations at the elementary and secondary levels.
- 363: Double Reed Methods. 2-0-1. Group instruction in double reed instruments including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.
- 371: High Brass Methods. 2-0-1. Group instruction in high brass instruments including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.
- 372: Low Brass Methods. 2-0-1. Group instruction in low brass instruments including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.
- 381: Percussion Methods I. 2-0-1. Group instruction in percussion instruments including methods and materials of instruction for the music educator. Includes laboratory experiences and observation at the elementary and secondary levels.
- 382: Percussion Methods II. 2-0-1. Preq., MUPD 381. Continuation of MUPD 381.
- 410: Piano Pedagogy I. 1-1-2. Methods and materials used in teaching piano to beginners. Required by the State Department of Education for teachers wishing to be certified in piano.
- **411: Piano Pedagogy II.** 1-1-2. Preq., MUPD **410.** Continuation of MUPD **410.** Practice teaching of beginning students in integral to this course.
- **430:** Vocal Pedagogy, 1-1-2 (4). Methods and materials of teaching voice in private studio and/or in the school.
- 455: Guitar Pedagogy I. 3-1-2. Methods and materials of teaching guitar in private studio and/or in school.
- **456:** Guitar Pedagogy II. 3-1-2. Continuation of MUPD 455. Practice teaching of beginning students is integral to this course.
- **461:** Flute Pedagogy I. 3-1-2. Methods and materials of teaching flute in private studio and/or in school..
- 462: Flute Pedagogy II. 3-1-2. Continuation of MUPD 461. Practice teaching of beginning students is integral to this course.
- **464: Elementary Music Methods.** 0-3-3. An overview of the methodologies of Orff, Kodaly, and Dalcroze. Learning to plan, execute and evaluate music programs in the elementary school. Includes observation at the elementary level.
- **465:** Secondary Vocal Methods. 0-3-3. Examines the materials and methods for the teacher and supervisor of vocal music, e.g., program building, contests, festivals, requisitions, grading, materials, scheduling, and rehearsing. Includes observation at the secondary level.
- **466:** Secondary Instrumental Methods. 0-3-3. Examines the materials and methods for the teacher and supervisor of instrumental music, e.g., program building, contests, festivals, requisitions, grading, materials, scheduling, and rehearsing. Includes observation at the secondary level.
- **467: Clarinet Pedagogy 1.** 3-1-2. Methods and materials of teaching clarinet in private studio and/or in school..
- 468: Clarinet Pedagogy II. 3-1-2. Practice teaching of beginning students is integral to this course.
- 471: Trumpet Pedagogy I. 3-1-2. Methods and materials of teaching trumpet in private studio and/or in school..
- **472:** Trumpet Pedagogy **II.** 3-1-2. Practice teaching of beginning students is integral to this course.
- 475: Tuba Pedagogy I. 3-1-2. Methods and materials of teaching tuba in private studio and/or in school.
- 476: Tuba Pedagogy II. 3-1-2. Practice teaching of beginning students is integral to this course.

MUSIC TECHNOLOGY (MUTC)

- 141: Music Technology, 1-2 semester hours. Individualized instruction in the techniques of working with various sound sources and resources in the field of music technology.
- 301: Computer Science in Music. 2-2-3. Study of general computer applications and music related applications including notation, graphics, sound generation, sequencing, audio manipulation, and other related uses.

MUSIC THEORY (MUTH)

100: Rudiments of Music Theory. 0-2-2. Instruction in the fundamentals of music theory including reading, notation, and aural skills.

- 101: Music Theory I. 2-2-2. Preq., diagnostic exam. Beginning study of fundamentals of music covering the areas of notation, ear-training, sight singing, and functional keyboard.
- 102: Music Theory II. 2-2-2. Preq., MUTH 101. Continuation of MUTH 101, increasing emphasis on common-practice harmonic vocabulary.
- 103: Music Theory III. 2-2-2. Preq., MUTH 102. Continuation of MUTH 102.
- 201: Music Theory IV, 2-2-2. Preq., MUTH 103. Continuation of MUTH103 with emphasis on the organization and interaction of melodic, harmonic and rhythmic concepts and music forms. Aural training and functional keyboard is intensified in proportion to the depth of course content.
- 202: Music Theory V. 2-2-2. Preq., MUTH 201. Continuation of MUTH 201.
- 203: Music Theory VI. 2-2-2. Preq., MUTH 202. Continuation of MUTH 202.
- **301:** Music Composition. 0-3-3. Preq., MUTH 203. A survey of the techniques of 20th century composition with projects consisting of the writing of short compositions illustrating these techniques.
- 302: Form and Analysis. 0-3-3. Preq., MUTH 203. A study of specific examples of the major forms of composition to show the relative importance of detail to the overall comprehension of a composition.
- 330: Choral Arranging. 0-2-2. Preq., MUTH 203. A study of writing for the individual voices and the combinations of voices in choral ensembles.
- 370: Instrumental Arranging. 0-2-2. Preq., MUTH 203. A study of writing for the individual instruments of the band and orchestra, the combinations of instruments in the various sections, and the combination of all the sections.
- **401:** Counterpoint. 0-3-3. Preq., MUTH 203. A study of contrapuntal practice of the 18th and 19th centuries with emphasis on the understanding of counterpoint within a harmonic context.

NURSING (NURS)

- 109: Introduction to Nursing. 0-2-2. An introduction to the health care system and professional nursing. Basic human needs, the elderly client, and concepts related to death and dying are introduced.
- 110: Introduction to Application of the Nursing Process. 8-0-3. Coreq., NURS 109, and credit or registration in BISC225 and 226. Acquaints student with basic nursing principles and techniques of safe nursing care to meet basic human needs. Emphasis on interpersonal skills, communication, interviewing and observation.
- 112: Adult Health Maintenance I. 8-3-5. Preq., NURS 109 and 110 and BISC 225 and 226 and credit or registration in BISC227. Study, identification and application of nursing knowledge and skills related to adult health needs. Emphasis on patient-centered care utilizing the nursing process.
- 113: Introduction to Associate Degree Nursing. 0-0-10. Emphasizes the nursing process and basic human needs with introduction to associate degree nursing roles. Principles are applied with validation in the clinical setting.
- 114: Adult Health Maintenance II. 8-3-5. Preq., NURS 112 and BISC 225, 226, and 227. Continuation of the study, identification and application of nursing knowledge and skills related to adult health needs. Emphasis on patient-centered care utilizing the nursing process.
- 116: Adult Neuro/Psycho-Social Health Maintenance. 8-3-5. Preq., NURS 114 and PSYC 102. Utilizes nursing knowledge/skills in provision of health care. Emphasis on nursing care of clients experiencing threats to needs as a result of neuro-psycho-social dysfunction.
- 210: Maternal/Newborn Health Maintenance. 8-3-5. Preq., NURS 116. Study/application of principles and concepts of family-centered maternal/newborn care. Emphasis on meeting specific needs of clients during the childbearing cycle and newborn period.
- 212: Child Health Maintenance. 8-3-5. Preq., NURS 116 and PSYC 408. Study/application of nursing knowledge/skills related to children's and

adolescent's health needs. Includes growth and development, family, and prevention of and intervention in illness.

- 214: Nursing Seminar. 0-1-1. Preq., Credit in all previous nursing courses. Study of current nursing trends in light of evolving patterns and practices. Emphasis on professional opportunities and obligations and legal aspects of nursing practice.
- 216: Nursing Practicum. 24-4-7. Coreq., NURS 214. Preq., Credit in all other nursing courses. Integration of knowledge and skills acquired in previous nursing courses in caring for clients with complex and/or multiple threats to basic needs.
- 280: Selected Topics. 1-3 hour(s) credit (6). Preq., Approval by Nursing Division Director. Independent study course designed for students to become involved with creative learning opportunities related to nursing research, theory and practice.

PHILOSOPHY (PHIL)

- 201: Introduction to Philosophy. 0-3-3. Prcq., junior standing or permission of the instructor. Philosophical vocabulary; types and problems of philosophy; major philosophical positions. Statewide Transfer Agreement Course*.
- 305: Ethics. 0-3-3. Preq., PHIL 201 or permission of the instructor. A study of the writings of the major moral philosophers, beginning with the Greeks and continuing to the present.

PHYSICS (PHYS)

- 102: Introductory Physics. 2-1-1. An introductory survey of physics, use of library resources, and basic computation.
- 103: Introductory Physics. 2-1-1. A continuation of PHYS 102.
- 104: Introductory Physics. 2-1-1. A continuation of PHYS 103.
- 201: Physics for Engineering and Science I. 0-3-3. Preq., MATH 241. Thorough treatment of fundamental principles and their application, with emphasis on mechanics..
- 202: Physics for Engineering and Science II. 0-3-3. Preq., PHYS 201 and MATH 242. A continuation of PHYS 201, with emphasis on electromagnetic phenomena and optics.
- 205: Conceptual Physics L 0-3-3. Qualitative discussion of physical principles and concepts, intended for non-technical majors and those interested in the cultural aspects of the subject.
- 206: Conceptual Physics II. 0-3-3. A continuation of PHYS 205.
- 209: General Physics I. 0-3-3. Preq., MATH 112. A study of the fundamental principles of physics and their applications to mechanics, thermodynamics, and waves. An algebra and trigonometry based problem solving course. Statewide Transfer Agreement Course*.
- 210: General Physics II. 0-3-3. Preq., PHYS 209. A continuation of PHYS 209, with emphasis on problems in electricity and magnetism, optics, and modern physics. Statewide Transfer Agreement Course*.
- 220: Astronomy The Solar System. 0-3-3. An introduction to astronomy, covering the history of astronomy and the solar system. Statewide Transfer Agreement Course*.
- 221: Introduction to Astrophysics. 0-3-3. Introduction to astronomy, with emphasis on physical principles. Application of mechanics to orbits of planets and multiple stars. Atomic theory applied to stellar spectra. Nuclear reactions in stars.
- 230: Astronomy The Stars and Galaxies. 0-3-3. An introduction to Astronomy, covering the stars, galaxies, and the universe.
- 261: General Physics Laboratory. 4 1/2-0-1. Preq., MATH 112 or 241. Laboratory investigations of basic physical principles. Statewide Transfer Agreement Course*.
- 262: General Physics Laboratory. 4 1/2-0-1. Preq., PHYS 261. A continuation of PHYS 261. Statewide Transfer Agreement Course*.
- **303:** Geometrical Optics. 0-3-3. Preq., PHYS 202. The study of thick lenses, lens system layouts, aberrations, photometric theory applied to optical systems, optical instruments and matrix optics.
- 304: Physical Optics. 0-3-3. Preq., PHYS 202. A thorough position of the wave theory of light and an introduction to the quantum theory.
- 307: Thermodynamics. 0-3-3. Preq., PHYS 202. Classical thermodynamics and introductory classical and quantum statistical mechanics.
- 320: Optics Laboratory I. 4 1/2-0-1. Experiments in optics to demonstrate optical phenomena.
- 350: Introduction to Lasers. 0-3-3. Preq., six hours of physics. Introduction to modern laser technology. A semi-quantitative approach presents all known types of lasers. Applications such as measurements,

instrumentation, communications, biological, medical, and health hazards are concluding topics.

- 406: Electricity and Magnetism. 0-3-3. Preq., MATH 245, PHYS 202. A study of the fundamental theories of electricity and magnetism. An application of basic principles is stressed.
- 407: Electricity and Magnetism. 0-3-3. Preq., PHYS 406. A continuation of PHYS 406.
- **408: Electricity and Magnetism Laboratory.** 4 1/2-0-1. Experiments in circuitry and in classical electricity and magnetism.
- 409: Electricity and Magnetism Laboratory. 4 1/2-0-1. Preq., PHYS 408. A continuation of PHYS 408.
- 415: Introduction to Lasers. 0-3-3. Preq., PHYS 304, 417. Introduction to modern laser technology. Topics included are spectra of simple systems, lifetimes and energy levels, atomic, molecular and solid state lasers, and laser applications.
- 416: Modern Physics. 0-3-3. Preq., PHYS 202. An advanced course in general physics stressing the modern developments of the subject.
- 417: Modern Physics. 0-3-3. Preq., PHYS 416. A continuation of PHYS 416.
- **418: Modern Physics Laboratory.** 4 1/2-0-1. Laboratory exercises involving the electron and the nucleus.
- 419: Modern Physics Laboratory. 4 1/2-0-1. Prcq., PHYS 418. A continuation of PHYS 418.
- 420: Optics Laboratory II. 4 1/2-0-1. Experiments in optics to demonstrate advanced optical phenomena.
- 422: Physical Mechanics. 0-3-3. Preq., PHYS 202, MATH 245. Statics, particle dynamics, dynamics of a rigid body, kinetic theory, elasticity, wave motion, and behavior of fluids. Fundamental importance of mechanical principles in all fields of physics emphasized. (G)
- 423: Physical Mechanics. 0-3-3. Preq., PHYS 422. A continuation of PHYS 422. (G)
- 424: Quantum Mechanics. 0-3-3. Preq., PHYS 423 or equivalent, PHYS 416, and MATH 245. An extension of mechanics into the microscopic world. The statistical nature of physical law is developed to augment the classical Newtonian picture of the macroscopic world.
- 430: Introduction to Medical Physics. 0-3-3. Preq., PHYS 209-210 or 201-202. A basic course in Physics of radiology, designed for students interested in therapeutical and diagnostic uses of ionizing radiation. (G)
- 435: Undergraduate Physics Research. 1-3 hours credit (6). Preq., consent of instructor. Introduction to methods of research.
- 440: Fourier Optics. 0-3-3. Preq., PHYS 406, 407, or ELEN 411. An introduction to the theory of Fourier Optics including optical data processing and holography. (G)
- 450: Modern Optics. 0-3-3. Preq., PHYS 350. Selected topics in modern optics.
- 462: Modern Physics for Teachers. 0-3-3. Preq., 8 hours of Physics or permission of instructor. A survey of modern physics as used by the high school teacher of physics. Emphasis is placed on experimental techniques.
- 463: Modern Physics for Teachers. 0-3-3. Preq., 8 hours of Physics or permission of instructor. Hands-on experience for teachers developing a physics science program that emphasizes the observational side of Physics.
- 465: Physics of Sound. 0-3-3. Preq., PHYS 205. The physical and psychophysical processes associated with sound are studied so that the basic mechanisms of hearing, speech and music can be better understood.
- 470: Seminar. 1-6 hours credit. Preq., Permission of instructor. An opportunity is given for students to present current topics and actively participate in discussions concerning new developments in physics.
- **480:** Modern Astrophysics. 0-3-3. Preq., PHYS 417. Astrophysics is discussed in light of the tremendous amount of data accumulated from areas such as high energy experimental physics and elementary particle theory.
- **503:** Topics in Physics. 1-3 hours credit (6). Independent study. Topics arranged to meet the needs of the student.
- 510: Mathematical Methods in Physics, 0-3-3. An advanced treatment of the approaches used to formulate solutions to physical problems, such as boundary value problems, variational methods and approximate solutions.
- 511: Electromagnetic Theory, 0-3-3. An advanced treatment of the theory of electricity and magnetism.
- **512:** Solid State Physics. 0-3-3. An advanced treatment of the structure and the thermal, electrical and magnetic properties of solid materials.
- 521: Theoretical Mechanics. 0-3-3. A presentation of advanced classical mechanics oriented towards modern theories of physics.

- **522:** Quantum Mechanics. 0-3-3. An outline of the principles of wave mechanics and quantum mechanics, followed by their application to problems in atomic and nuclear theory.
- **523:** Classical Theory of Fields. 0-3-3. Preq., PHYS 511, 522. A concentrated study of the dynamics of relativistic particles and electromagnetic fields utilizing the Langrangian and Hamiltonian formulations for fields.
- 524: Quantum Theory of Fields. 0-3-3. Preq., PHYS 523. An advanced course on the quantum structure of field theories. Functional techniques are used to discuss the quantum theory of electroweak and strong interactions.
- 531: Theories of Physics. 0-3-3. Selected topics. Contemporary theories dealing with recent trends in physics.
- 532: Theories of Physics. 0-3-3. A continuation of PHYS 531.
- 533: Statistical Mechanics. 0-3-3. Preq., PHYS 521. A study of the statistical aspects of modern physical theory. Considers the classical and quantum aspects of many-particle systems.
- 540: Computational Methods in Physics Modeling and Simulation I. 0-3-3. Computational methods for implementing modeling and simulation of physical systems.
- 541: Computational Methods in Physics Modeling and Simulation II. 0-3-3. Preq., PHYS 540. Computational methods for implementing modeling and simulation of physical systems.
- 549: Physics Research & Reporting, 0-3-3 (6). Preq., 12 semester hours of graduate work. Experimental or computational study of a problem in physics. A survey of the relevant literature and a formal written report are required. This course fulfills the research and reporting requirement for a master's degree non-thesis option. (Pass/Fail)
- 551: Research and Thesis in Physics. Registration in any quarter may be for three semester hours credit or multiples thereof. Maximum credit allowed is six semester hours.
- 557: Advanced Topics in Physics. 0-3-3 (9). The topic or topics will be selected by the instructor from the various sub-disciplines of physics.

PLANT SCIENCE (PLSC)

- 101: Introduction to Plant Science. 0-3-3. Basic concepts of production and management of agronomic and horticultural crops.
- 211: Forage Crops and Pasture Management. 3-2-3. A study of the growth adaptation and culture of forage crops including types of plants, methods of establishment and improvement, and use of forages.
- 284: Woody Plants. 3-2-3. Identification of woody landscape plants, including culture, propagation, and use.
- **300:** Horticulture Field Trip. 9-0-1. Field trips to experiment stations, large wholesale and retail nurseries, botanical gardens, and arboreta.
- **301:** Landscape Design. 3-2-3. Elements and principles of design as applied to the home and other small properties.
- 302: Environmental Design. 3-2-3. Environmental factors affecting the landscape, including discussion of natural systems, remote sensing and large-scale design.
- 303: Irrigation Principles & Practices. 3-2-3. Procedures of design and installation of irrigation systems appropriate to turf, landscape, greenhouse, nursery, and agricultural applications.
- 309: Field Crops. 3-2-3. Fundamentals of production, harvesting, storage, marketing, and utilization of grain, fiber, oil, and sugar crops.
- 310: Soil Science. 0-3-3. Preq., CHEM 100, 101, 102. A general study of soil science, emphasizing the relation of soil properties and processes to plant growth. Cannot be taken for credit if student has credit for ENSC 310.
- 311: Soil Science Laboratory. 3-0-1. Coreq. or Preq., PLSC 310. Laboratory exercises to elaborate fundamental principles of soil properties, soil testing, and soil survey reports. Cannot be taken for credit if student has credit for ENSC 311.
- 312: Turf Management. 3-2-3. Establishment, maintenance, and management of turf grasses for homes, athletic fields, golf courses, playgrounds, parks, highways, airfields, and other uses.
- 320: Plant Propagation, 3-2-3. Principles and practices of sexual and asexual methods or propagating horticultural plants.
- 384: Herbaceous Plants. 3-2-3. Identification of annual, perennial, and tropical plants, including culture, propagation, and use.
- 400: Special Problems. 1-3 hours credit. May be repeated for credit. Permission of instructor required. Assignments in floral or landscape design, greenhouse or field production projects or other horticulture practica.

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- **403: Edible Horticultural Crops.** 3-2-3. Methods and practices of home and commercial production of vegetable and fruit crops, with emphasis on those adapted to the South.
- **409:** Plant Breeding. 3-2-3. A study of the application of the fundamental principles of genetics to the development and maintenance of improved plant varietics. (G)
- 412: Golf Course & Sports Turf Management. 3-2-3. Best Management Practices; including construction, turfgrass selection and establishment, soil and water management, fertilization, cultural practices, pest management and pesticide safety.
- 420: Greenhouse Management. 3-2-3. Principles and practices involved in greenhouse operation, including production of flowering and foliage crops.
- 421: Weed Science. 3-2-3. Weed control in Agricultural crops, including weed ecology, classification, dormancy, dissemination; seed anatomy and germination; herbicidal action and practical application techniques. (G)
- **422:** Pest Management I. 0-3-3. Basic concepts of integrated pest management; pesticides, biological control agents, varietal resistance, pheromones and trap crops, laws and regulations, labeling requirements, pesticide classification and safety. (G)
- 423: Pest Management II. 3-2-3. Identification of insects, nematodes and disease-causing organisms affecting row crops of the south; monitoring procedures, economic threshold levels; steps in solving pest problems.
 (G)
- 440: Nursery Management. 3-2-3. Production, handling and sales practices in the nursery, greenhouse and garden center. (G)
- 441: Landscape Contracting. 3-2-3. Landscape contracting operations; estimating and bidding, plant installation, care and maintenance, design considerations, use of structural elements and irrigation systems. (G)
- 450: Management of Soil and Water Quality. 3-2-3. Prcq., PLSC 310 or ENSC 310. Study of agricultural practices and other activities that affect soil and water quality with an emphasis on solutions that avoid or minimize adverse environmental impacts. Cannot be taken for credit if student has credit for ENSC 450

POLITICAL SCIENCE (POLS)

- 201: National Government in the United States. 0-3-3. A study of the development of the national government with emphasis on problems connected with the federal system and separation of powers. Statewide Transfer Agreement Course*.
- **302:** Comparative Foreign Governments. 0-3-3. Preq., POLS 201 or consent of instructor. A study of the political systems and governments of the major European nation-states of the twentieth century.
- 303: State Government and Administration in the United States. 0-3-3. Preq., POLS 201. A study of the role of the state in the American Union including nation-state and interstate relations. Statewide Transfer Agreement Course*.
- 310: Government and the Economy. 0-3-3. Preq., POLS 201. Political/economic issues (employment, inflation, poverty, energy, environment, health care, etc.) are studied according to competing theories of political economy.
- **320:** Legislation in the United States: Federal and State. 0-3-3. Preq., POLS 201. A study of the legislative process and of the influences that determine the nature of the legislative product.
- 322: Political Parties in the United States. 0-3-3. Preq., POLS 201. A study of American political parties, including historical origins, their broad role in the political system, and their current place in American politics.
- 325: History of European Political Theory, 0-3-3. Preq., POLS 201, and junior class standing, or consent of instructor. A study of Western political philosophy from its beginnings to the nineteenth century.
- 327: Modern Political Theory and Ideologies. 0-3-3. Preq., POLS 201. A study of nineteenth and twentieth century political theory with emphasis on the principal modern ideologies (Anarchism, Communism, Socialism, Fascism, Democracy).
- 330: The American Presidency. 0-3-3. Preq., POLS 201. A study of the American Presidency including its origins, roles, functions, and prohlems.
- 340: Race, Class, and Gender in American Politics. 0-3-3. Preq., POLS 201. An examination of three crucial political variables (race, class, gender), including their theoretical and historical impact and their combined relevance in contemporary American politics.
- 345: Scope and Methods in Social Sciences. 0-3-3. Preq., POLS 201. An introduction to basic statistics, computer and data analysis, research design, and the application of the qualitative and quantitative methods to the social sciences.

- 350: International Relations. 0-3-3. Preq., POLS 201. An introductory study of political contacts between modern nation-states, the origin of nationalism and imperialism, and the causes and effects of power politics.
- 355: American Foreign Policy. 0-3-3. Preq., POLS 201. America's foreign policy doctrines and the factors involved in their formulation, including constitutional framework, presidential and congressional leadership, pressure groups, public opinion, and international environment.
- **420:** Contemporary Problems in Government. 0-3-3. Preq., One of the following courses: POLS 201, or 303, and junior standing.
- 426: American Constitutional Law I. 0-3-3. Preq., POLS 201. Introduction to judicial institutions and processes as well as a case method study of the constitutional issues of judicial review, federalism, government economic regulation, and others.
- 427: American Constitutional Law II. 0-3-3. Preq., POLS 201. A continuation of the case method study of constitutional law, with emphasis on political and civil rights (speech, press, assembly, religion, race, criminal procedure, etc.).
- 460: Politics of Developing Nations, 0-3-3. Preq., POLS 201. An analysis of the relationship of politics to rapid economic and social change in developing nations and evaluation of policies intended to promote development.
- 465: Asian Politics. 0-3-3. Preq., POLS 201. A survey of interrelationships among Asian nations, their relationships with occidental powers, their international roles, and politics of the region as a whole.

PROFESSIONAL AVIATION (PR AV)

- 101: Private Pilot Ground I. 0-3-3. An introduction to basic aerodynamics, aircrafl systems, instrumentation, performance, and aviation weather. Initial preparation for FAA Private Pilot Certificate.
- 102: Private Pilot Ground II. 0-3-3. Preq., PRAV 101. An introduction to FAA regulations and procedures, communications, navigation, aviation physiology, aviation safety and emergency procedures. Final preparation for the FAA Private Pilot Written Certificate.
- 110: Private Pilot Flight I. 4-0-1. Preq., PRAV 102 or concurrent enrollment. Provides student with approximately 11 hours of simulator/dual/solo flight instruction. Designed to meet FAA flight requirements for the Private Pilot Certificate. Special Fec.
- 111: Private Pilot Flight II. 4-0-1. Preq., PRAV 102 or concurrent enrollment. Provides student with approximately 24 hours of dual/solo flight instruction. Designed to meet FAA flight requirements for the Private Pilot Certificate. Special fee.
- 200: Aircraft Powerplant Systems. 0-3-3. Preq., PRAV 102. Theory of piston engines. A study of the internal combustion process in the radial, opposed and V-typed engines including engine driven accessories.
- 205: Aircraft Electrical Systems. 0-3-3. Preq., PRAV 102. Fundamentals of aircraft electrical systems.
- 208: Introduction to Computers, 1-2-2. Introduction to computers to acquire computer literacy. Study of hardware, software, systems, and application in aviation.
- 223: Fixed Base Operations. 0-3-3. Preq., PRAV 102. Detailed study of the functions and responsibilities of the typical Fixed Base Operator.
- 239: Aviation Weather. 0-3-3. Preq., PRAV 102. Weather systems, weather reporting, airborne weather radar, weather safety, and severe weather avoidance. Designed to meet weather knowledge requirements for instrument, commercial, and CFI ratings.
- 240: Instrument Pilot Ground I. 0-3-3. Preq., PRAV 102 and 111 or concurrent enrollment. Attitude instrument flying, instrumentation, navigation systems for general aviation and air carriers. Designed to meet the FAA ground training requirements for the Instrument rating.
- 241: Instrument Pilot Ground II. 0-2-2. Preq., PRAV 240 and Private Pilot Certificate. Navigation/approach charts, regulations pertinent to instrument flight, instrument flight planning, communications. Departure, en-route, and approach procedures. Final preparation for FAA Instrument rating.
- 242: Instrument Flight 1. 3-0-1. Preq., Private Pilot Certificate. Provides the student with approximately 15 hours of instrument flight instruction necessary to meet the FAA requirements for the Instrument rating. Special Fee.
- 243: Instrument Pilot Flight II. 3-0-1. Preq., PRAV 242. Provides the student with approximately 60 hours of dual instrument flight instruction necessary to meet the FAA requirements for the Instrument rating. Special Fee.
- 303: Aerodynamics. 0-3-3. A study of advanced aircraft design, acrodynamics, and performance.

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- 305: Jet Propulsion Systems. 0-3-3. Preq., PRAV 200. Theory of jet propulsion to include turbojet, turbofan, and turboprop engines.
- 315: Airport Planning & Management. 0-3-3. Provides the student with introductory exposure to the field and scope of airport planning and management.
- 316: Human Factors in Aviation. 0-3-3. For recognition of the comprehensive role of human factors in enhancing aviation safety.
- 320: Corporate Aviation. 0-3-3. Value/Benefit analysis of the corporate aviation decision. Topics include aircraft selection, flight department administration and operations, aircraft maintenance, FAA regulatory requirements, and future considerations.
- 322: Aviation Law, 0-2-2. Study of aviation law development and application. Case studies.
- 331: Air Carrier Systems: 0-3-3. Study of air carrier operations to include flight planning, large airplane systems, and performance systems. A capstone course designed to prepare students for a career with a commercial carrier.
- 332: Air Carrier Operations. 0-3-3. Study of required pilot operations, dispatcher procedures, and FAA certification requirements.
- 340: Commercial Pilot Ground I. 0-3-3. Preq., PRAV 240. Aerodynamics, performance, instrumentation, stability and control, aircraft limitations, aircraft systems, aviation safety. Designed to meet FAA ground instruction requirements for Commercial Pilot Certificate.
- 341: Commercial Pilot Ground II. 0-2-2. Preq., PRAV 340. Advanced navigation, aircrew decision making, crew resource management, physiology of flight. FAA Part 121, 125, and 135 operations. Final preparation for FAA Commercial Pilot Certificate.
- 342: Commercial Pilot Flight 1. 6-0-1. Preq., PRAV 341 or Private Instrument Certificate. Provides students with approximately 21 hours of flight instruction. Designed to meet the flight requirements for the FAA Commercial Pilot Certificate.
- 343: Commercial Pilot Flight II. 6-0-1. Preq., PRAV 342. Provides students with approximately 23 hours of flight instruction. Designed to meet the FAA flight requirements for the Commercial Pilot Certificate. Special Fre
- 344; Commercial Pilot Flight III. 6-0-1. Preq., PRAV 343. Provides students with approximately 22 hours of flight instruction. Designed to meet the FAA flight requirements for the Commercial Pilot Certificate. Special Fee.
- 400; Multi-Engine Ground. 0-2-2. Preq., PRAV 341 and 343. Ground instruction for FAA Multi-Engine rating. Emphasizes systems, crew concept procedures, emergency procedures, performance, weight/balance and air carrier flight planning procedures.
- 405: Instrument Flight Instructor. 3-2-3. Preq., PRAV 414 and Certified Flight Instructor Rating and approval of Department Head. Provides students with fundamentals necessary to analyze and instruct instrument referenced flight maneuvers and procedures. Prepares student for FAA Instrument Flight Instructor rating (CFII).
- 407: The National Airspace System. 0-3-3. A survey course designed to instruct the student on the National Airspace Systems to include Air Traffic Control issues and procedures.
- 410: Multi-Engine Pilot Flight. 3-0-1. Preq., PRAV 400 or concurrent enrollment. Provides students with flight instruction necessary for FAA Multi-Engine rating. Special fee.
- 411: Instructor Pilot Flight. 3-0-1 (3). Preq., PRAV 414 or concurrent enrollment and a Commercial Instrument Pilot Certificate. Provides students with flight instruction necessary to meet the requirements for an FAA Flight Instructor Certificate (CFI). Special fee
- 414: Flight Instructor Ground. 0-3-3. Preq., PRAV 241 and 243 and a Commercial Instrument Pilot Certificate. Fundamentals of flight instruction and analysis of visual reference flight maneuvers. Preparation for FAA Instructor Pilot Certification (CFI).
- 415: Air Transport Pilot Flight. 3-0-1 (3). Preq., approval of Department Head. Provides the student with flight instruction necessary to meet the requirements for FAA Airline Transport certificates and ratings. Special fee.
- 419: Supervised Practice Flight/Ground Instruction. 3-0-1 (4). Preq., completion of PRAV 411 and 414. Directed observation and instructional critique of the student's performance in developing lesson plans and presenting actual flight and ground instruction.
- 440: Airline Economics and Management. 0-3-3. An advanced study of airline operation, fleet acquisition, management techniques, economic considerations, public benefits applications.

- 490: The Government Role in Aviation. 0-3-3. Preq., Senior standing. Historic, current and future governmental control. A study of congressional action, the NAS, the FAA, ICAO, and state and local aviation laws.
- 491: Aviation Safety. 0-3-3. Historical development of aviation safety, accident/incident analysis and reporting, introduction to accident investigation, human factors, accident prevention and development of aviation safety programs.
- 495: Aviation Professionalism. 0-3-3. Preq., senior standing. Study of aerospace industry and career opportunities. Emphasis on business climate and job acquisition. Overview of business, management, labor practices, and professional responsibility.
- 496: Internship in Aviation. 3-12 hours credit. Preq., Department Head's approval. Internship in area(s) of specialization. Supervised work in government or industry to gain experience in aviation fields. Minimum 90 clock hours; maximum 360 clock hours.
- 498: Independent Study, 0-3-3 (6), Preq., Department Head's approval. Directed study of air transportation as part of a foreign and domestic, multi-model transportation system. May be repeated once for credit.

PSYCHOLOGY (PSYC)

- 102: General Psychology. 0-3-3. A survey of fundamental processes and concepts of human behavior. Statewide Transfer Agreement Course*.
- 202: Advanced General Psychology. 0-3-3. Preq., PSYC 102. An intensive survey of literature and procedures in general psychology.
- 204: Educational Psychology. 0-3-3. Education Majors only. A survey course designed to meet the needs of prospective teachers by bringing an application of psychological principles to the instructional setting.
- 205: Child Psychology. 0-3-3. Education Majors only. A study of the physical and mental growth of the child, the social, emotional, motor development, interests, and imaginative activities.
- 206: Adolescent Psychology. 0-3-3. Education Majors only. A study of the physical and mental growth of youth during the period of adolescence and the transition from childhood to adulthood.
- 207: Learning and Development. 1-3-3. An in-depth study of human development with emphasis on contemporary research relating to human learning and the application of psychological principles.
- 300: Elementary Statistical Methods in the Social Sciences. 0-3-3. A course designed to provide an orientation to statistical concepts used in the behavioral science field.
- 301: Fields of Psychology. 0-3-3. A study of the history of major fields and trends in psychology.
- 302: Physiological Psychology. 0-3-3. Preq., BISC 225 (or concurrent enrollment), PSYC 202. An intensive study of the physiology of the nervous system, and its relation to behavior.
- 303: Parapsychology. 0-3-3. Preq., PSYC 102 and 202 Critical examination of theoretical and methodological issues in the study of non-conventional sensory, perceptual, and cognitive processes.
- 304: Social Psychology, 0-3-3. Preq., PSYC 202. A study of the nature of social behavior, social stimulation and response; a psychological analysis of society and social institutions.
- 305: Practical Psychology. 0-3-3. Preq., PSYC 102. A survey of the practical application of psychological concepts to daily life. Emphasis on human social relationships, self-concept and personal growth.
- 308: Human Growth and Development. 0-3-3. A survey of human development from conception to old age and death.
- 310: Psychology of Personality. 0-3-3. Preq., PSYC 202. A study of major theories of personality.
- 315: Research Design and Statistics I. 3-2-3. Preq., PSYC300 or STAT200. A beginning course in the scientific method in psychology including design and statistical analysis.
- 320: Learning and Cognition. 0-3-3. A survey of the current theories of learning and cognition.
- 321: Psychological Testing, 0-3-3. Prcq., PSYC 300. An introduction to the principles and practices of psychological testing and evaluation.
- 400: Behavior Modification, 0-3-3. Applied analysis to individual behaviors using concepts, and principles from experimental analysis of behavior. (G)
- 404: Seminar In Psychology. 0-3-3-(9). An intensive survey in selected current topics in the field of psychology. (G) (Graduate students should contact instructor for more specific criteria.)
- 411: Crisis Intervention. 0-3-3. Preq., 6 hours in PSYC and COUN 400 or approval of department head. Overview of theories, strategies, and service delivery systems in crisis intervention. (G)

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- 414: Dynamics of Adjustment. 0-3-3. A comprehensive study of the problems of self-adjustment and self-management and the development of a well integrated personality. (G)
- 415: Research Design and Statistics II. 3-2-3. Preq., PSYC 315. An advanced course in experimental psychology and statistics with an emphasis on computer and internet applications in research.
- 418: Abnormal Psychology. 0-3-3. Preq., PSYC 310 and 312. A study of the nature and development of abnormal behavior from a psychological viewpoint (G)
- 430: Evolutionary Psychology. 0-3-3. Preq., PSYC 202. An introduction to the field of evolutionary psychology.
- 450: Introduction to Clinical Psychology. 0-3-3. Preq., consent of instructor. Introduction to clinical psychology as a science and profession. Lectures, discussions, demonstrations, and field observations are provided for an overview of clinical psychology.
- 455: Environmental Psychology. 0-3-3. Preq., PSYC 102. A survey of concepts about individual's interaction with the physical environment. Emphasis is placed upon designing physical surroundings to serve social and personal needs.
- 459: Research Methods in Psychology. 0-3-3. Preq., PSYC 300. An examination of the practical problems of designing, conducting, and interpreting research and of the structure and organization of research writing.
- 460: Field Research in Psychology. 1 3 hours credit (9). Preq., PSYC 459. Consent of the instructor. Supervised practice in methods of field research as a basic tool of psychology. Each student develops and executes a field research project. May be repeated for a maximum of 9 hours credit.
- 461: Data Analysis and Interpretation. 1-3 hours credit (3). Prcq., PSYC 300 or equivalent. A course designed to provide the skills necessary to use currently existing computer software to analyze data encountered in the social sciences.
- 462: Undergraduate Thesis. 9-0-3 (9). Preq., PSYC 407, Department Head and instructor approval. An original research project (conception, data collection, analysis, and presentation) completed under faculty supervision and offered to students with stellar academic records. By application only. May be repeated for up to 9 semester hours credit.
- 465: Industrial Psychology. 0-3-3. The application of psychological findings and concepts to the industrial environment. (G)
- 469: Psychology of Sexual Behavior. 0-3-3. Preq., PSYC 102 and junior standing. Survey of both normal and abnormal sexual behavior and selected techniques employed in sex therapy and counseling. (G)
- 474: Psychology of Adult Learning and Development. 0-3-3. Provides understanding of cognitive and psychosocial development in young, middle, and later adulthood. Emphasis is on aging process and factors, which affect adult learning.
- 475: Death, Dying and Grievance Process. 0-3-3. Exploration of one's personal values toward death and the grieving process, funeral customs and practices, counseling the terminally ill, and various customs of death. Graduate students should contact instructor for more specific criteria. (G)
- 480: Psychology of Sex Roles. 0-3-3. Overview of psychology of sex roles including history, theory, methodology, sex differences, and implications for development, socialization, abnormal behavior, counseling and gender. (G)
- 484: Introduction to Human Relations. 0-3-3. An introduction to human relations factors in various work settings.
- 485: Industrial Behavioral Analysis. 0-3-3. Application to behavior change techniques in work settings. A study of how to effectively manage others' as well as one's own work habits.
- 486: Introduction to Decision Making. 0-3-3. An introduction to decision making models and methods.
- 487: Human Relations Communication. 0-3-3. A study of how communications influences human relation in different contexts.
- 490: Social and Psychological Aspects of Blindness. 0-3-3. Preq., enrollment in Educational Psychology Visual Impairments program or permission of instructor. Psychological and environmental aspects of blindness. Current and historical overview of practices & trends in the rehabilitation and education of individuals with visual impairments. (G)
- 494: Special Topics. 1-4 hours credit (9). Preq., 21 hours in psychology. Selected topics in psychology. May be repeated for credit up to a total of 9 semester hours with a change in topic.
- 499: Health Psychology. 0-3-3. Prcq., PSYC 102. A survey of the systematic application of psychology to the relevant areas of health, disease and the health care system.

- 502: Cognitive Psychology. 0-3-3. Preq. enrollment in graduate program in psychology, counseling, or permission of instructor. Contemporary approaches to cognitive psychology; a broad survey of social cognition including attention, cognitive organization, mental reasoning, information processing, decision making, and human memory.
- 505: Theories in Marriage and Family Therapy. 0-3-3. An overview of marital development and change; principles of family dynamics and functioning.
- 506: Strategies for Marriage and Family Therapy. 0-3-3. Techniques for aiding married couples and families in distress; parenting strategies.
- 507: Learning and Development. 0-3-3. Provides an understanding of forces, which propel learning and development and enables teachers to help students successfully meet the unique demands of school.
- 508: Psychological Aspects of Disability. 0-3-3. An examination of attitudes, adjustment problems, sexuality, family and program implications for disabled populations.
- 509: Psychology of Aging. 0-3-3. An analysis of changes that occur in middle and late adulthood from psychological, cognitive, and social viewpoints.
- 510: Principles of Human Development. 0-3-3. Biological, psychological, and cultural interrelationships in human development.
- 512: Advanced Abnormal Psychology. 0-3-3. Preq., Enrollment in Counseling MA Program or permission of instructor. Comprehensive review of the major characteristics, etiology, and implications for treatment of the major psychological disorders. Clinical and research findings are emphasized.
- 513: Organizational Psychology. 0-3-3. A survey of current research and theories comprising organizational psychology. Critical-thinking skills are used to evaluate empirical research and current theories in the field.
- 516: Personnel Psychology. 0-3-3 Topics covered include the professional and legal requirements for personnel selection instruments; design and evaluation of personnel selection systems, designing and conducting job analyses and selection interviews.
- 517: Training and Development. 0-3-3. Provides the skills necessary to analyze, design, and evaluate training in organizations. Topics include determining training needs, task analysis, learning objectives, training methodologies, and evaluation.
- 518: Behavioral Analysis in Industry. 0-3-3. Application of behavioral analysis in industry. A study of concepts, principles, and skills essential for designing and implementing a behavior change plan in organizational settings.
- 519: Advanced Theories in Counseling. 0-3-3. Preq., COUN 508. Further analysis of theories of counseling as is evidenced by a review of current counseling literature.
- 522: Communication in Human Relations. 0-3-3. A review of the concepts, principles, and skills essential for effective communication in working with people.
- 523: Leadership and Decision-Making. 0-3-3. Examination of the various skills, behaviors, and attitudes required for effective leadership. Includes practices, decision-making, communication and ethical issues related to leadership.
- 524: Internship in Industrial/Organizational Psychology. 20-1-3 (6). Supervised experiences in an applied setting involving application of skills and field work in Industrial/Organizational Psychology.
- 533: Community Psychology/Rural Mental Health. 0-3-3. A study of community systems, intervention techniques, consultation methods, history and current status of the community mental health movement with particular emphasis on rural mental health research. Addresses psychological practice issues in the rural environment.
- 534: Psychology of Creativity. 0-3-3. Preq., cnrollment in Educational Psychology or Counseling Psychology graduate programs or permission of instructor. Reviews theories, defining characteristics, and empirical research literature on the creative process. Identifies relationships of creativity to ability/personality variables, and measurement/research issues.
- 541: Research Methods in Behavioral Sciences. 0-3-3. Preq., PSYC 542. A study of the research methods and designs commonly used in the Behavioral Sciences. Emphasis on quantitative methodology and APA writing style.
- 542: Statistical Methods in Behavioral Sciences, 0-3-3. A study of the statistical methods used to study problems in Behavioral Sciences.
- 543: Psychometrics. 0-4-3. Preq., Graduate enrollment in I/O Psychology, Educational Psychology, or Counseling Psychology, or permission of instructor. Test and measurement theory, including classical, true score,

and item response theory models. Covers reliability, validity, scaling, norms, and score transforming issues.

- 544: Qualitative Research Methods. 0-3-3. Concepts and applications of qualitative research methods including techniques for data collection and analysis are explored.
- 580: Developmental Psychology of Blindness. 0-3-3. This course emphasizes knowledge of physical, social, and emotional development of the blind including acquisition of motor, language, and cognitive skills, birth through adulthood.
- 589: Special Topics in Psychology. 1-4 hours credit, may be repeated. Prcq., enrollment in relevant graduate program in Psychology or permission of instructor, Current or specialized topics in psychology.
- 599: Master's Thesis. 0-3-3 (6 hours minimum). Original research conducted under the supervision of a departmental faculty member in the student's program area. Student must be enrolled whenever university facilities or faculty are used. (Pass/Fail).
- 600: Seminar: Issues in Academic Psychology & Teaching. 0-1-1 (9). May be repeated. Required of resident Counseling Psychology PhD students each quarter. Study of professional issues and research applications in counseling psychology. Non-degree credit.
- 601: Historical Foundations of Modern Psychology. 0-3-3. Historical development of psychology from its philosophical beginnings to the present.
- 602: Physiological Psychology. 0-3-3. A study of the neuroanatomical and neurochemical bases of behavior, contributions of physiological processes to fundamental behavioral processes.
- 603: Sensation and Perception. 0-3-3. Sensory and perceptual phenomena that influence motivation, cognition, and learning.
- 604: Theories of Social Psychology. 0-3-3. Theory and research concerning interpersonal perceptions, attitude formation and change, social motivation, and interactive processes.
- 605: Child Psychopathology. 0-3-3. Examines diagnosis and treatment of child and adolescent disorders from empirical, theoretical, and practical viewpoints.
- **606:** Comparative Psychology. 0-3-3. A study of the phylogenetic bases of behavior. Interspecies behavioral similarities and differences are examined as they relate to human behavior.
- 607: Fundamentals of Psychopharmacology. 0-4-3. Preq., enrollment in Ph.D. program in Counseling Psychology or permission of the instructor. Biochemical substrates of emotion, affect, and hehavior are reviewed. Psychopharmaceutical mechanisms and intervention strategies are emphasized along with a review of the treatment research literature
- 608: Developmental Psychology. 0-3-3. An advanced theory and research based study of the biological, psychological, social, and cultural processes in human growth and development. Counseling Psychology PhD students only.
- 609: Personality Theory. 0-3-3. Comparative approach to personality theory from the framework of philosophical issues, definitional problems, and current rescarch issues.
- 610: Professional Issues and Ethics. 0-3-3. An investigation of legal and ethical issues relevant to the practice of counseling psychology.
- 611: Advanced Group Counseling and Psychotherapy. 2-3-3. Group counseling theories with emphasis on advanced techniques and application, ethical responsibilities, and current trends with group research methodology. Practicum experience required.
- 612: Advanced Learning Theory. 0-3-3. Psychological aspects of learning, including theoretical and practical applications.
- 613: Career Assessment and Counseling. 4-3-4. Preq., enrollment in Counseling Psychology Ph.D. program, PSYC 531, 616, and 617. Assessment and counseling of career clients using interest, ability, and personality tests.
- 614: Professional Seminar in Counseling Psychology. 0-3-3. Preq., Counseling Psychology PhD students only. A survey of trends and issues pertinent to the professional activities of counseling psychologists.
- 616: Intellectual Assessment. 0-3-3. Preq., Enrollment in Counseling Psychology PhD program and approval of instructor. This course focuses on psychological assessment and interpretation of tests of ability, achievement, and higher cognitive functions. Differential psychodiagnosis and formal report writing are emphasized.
- 617: Personality Assessment: Objective and Projective. 0-3-3. Preq., approval of instructor. This course focuses on psychological assessment using tests of personality, DSM-IV psychodiagnosis, and DSM-IV Axis II disorders. Psychological report writing and interpretation are emphasized.

- **618:** Motivation. 0-3-3. The study of levels of motivation from ethological to cognitive-social motives; relevant motivational theories are used to explain human behaviors.
- 619: Psychopathology. 0-3-3. Comprehensive review of the etiology of psychological disorders and their diagnosis; clinical research findings are emphasized.
- 620: Sex Roles and Behavior. 0-3-3. An investigation of the effect of gender upon cognition, affect, and behavior.
- 621: Career Development Theories. 0-3-3. Preq., Counseling Psychology PhD students only. Intensive review of theories and research literature on career development across the life span. Application of theories to current career- and work-related problems.
- 622: Theories of Counseling and Psychotherapy. 0-3-3. Preq., Counseling Psychology PhD students only. A comparative approach to theories of counseling and psychotherapy at an advanced level.
- 623: Integrative Assessment. 0-3-3. Preq., PSYC 616 & 617, Counseling Psychology PhD students only. Emphasis on selection, administration, and combination of results from various assessment instruments into an integrated whole. Integrative report writing is emphasized.
- 624: Counseling Psychology Internship. 1-3 hours credit. Minimum credit allowed is 12 hours. Preq., completion of departmental requirements and approval of Counseling/Psychology Program Director and Department Head. One calendar year (or two half-years) of supervised full-time, counseling psychology experience in a Department-approved (typically, APA-approved) internship facility.
- 625: Research Seminar. 0-3-3. Preq., Counseling Psychology PhD students only, or signature of instructor. Integration of research design, methodology, and statistics in psychological research.
- 627: Advanced Assessment Topics. 0-3-3 (9). Prcq., Counseling Psychology PhD students only. A rotating topics course providing advanced training in selected assessment instruments and processes. May be repeated twice.
- 628. Special Topics in Psychology. 1-3 hours credit (9). May be repeated. Counseling Psychology PhD students only or permission of instructor. Intensive study of a selected topic in psychology.
- 629: Advanced Seminar in Counseling Theories & Techniques. 0-3-3 (9). May be repeated. Preq., Counseling Psychology PhD students only. A rotating topics course providing advanced study of selected counseling theories and therapeutic techniques.
- 630: Supervision in Counseling & Psychotherapy. 0-3-3. Preq., Counseling Psychology PhD students only. Overview of supervision/consultation models, including application of principles to clinical practice.
- 631: Multiculturalism and Diversity. 0-3-3. Preq., Counseling Psychology PhD students only. In-depth examination of issues related to multiculturalism and diversity, with a focus on implications for professional practice at the doctoral level.
- 632: Psychotherapy Research. 0-3-3. Preq., Counseling Psychology PhD students only. Investigation of research on change elements and outcome research in psychotherapy, including factors impacting change processes and cost-benefit issues raised hy managed mental health care.
- 641: Advanced Experimental Design and Analysis. 0-3-3. Theory and technique for maximizing the validity of psychological experiments and analyzing results via ANOVA, factorial ANOVA, ANCOVA, repeated measures ANOVA, and higher-order analyses.
- 642: Advanced Statistical Methods. 0-3-3. Techniques such as multiple regression, canonical correlation, discriminant analysis, MANOVA, and factor analyses in behavioral research are present.
- 643: Multivariate Statistics. 0-4-3. Advanced multivariate topics including multiple regressions, factor analyses, MANOVA, multi-dimensional scaling, structural equation modeling, path analysis, discriminant analysis, and meta-analyses.
- 650: Practicum in Counseling Psychology. 3 hours credit (9). (Pass/Fail). May be repeated. Supervised counseling experience within a practicum setting.
- 651: Advanced Practicum in Counseling Psychology. 1-3 hours credit (9). (Pass/Fail). Preq., PSYC 650 (9 hours total). May be repeated. Progressive development of advanced clinical skills within an approved practicum setting. Counseling Psychology PhD students only.
- 652: Field Placement in Practicum Setting, 1-3 hours (18). (Pass/Fail). May be repeated. Preq., PSYC 650 & 651 (three quarters each), Counseling Psychology PhD students only. Advanced practicum in a field setting.
- 660: Dissertation Research. 1-3 hours credit. Proposal, research, and defense of original doctoral-level research study. May be repeated each quarter for 3 credit hours per quarter. Minimum credit allowed is 6 hours. Enrollment is minimally required during the term in which the

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^{*}This course will be accepted for general education transfer credit. A course MAY or MAY NOT be accepted as equivalent to or substitute for a course in a specific discipline or major. Please check the Board of Regents Web site at http://www.regents.state.la.us/ and the school you are transferring to for additional information.

dissertation proposal is defended and the term in which the dissertation research is defended.

QUANTITATIVE ANALYSIS (QA)

- 233: Basic Business Statistics. 0-3-3. Preq., MATH 125. Descriptive statistics, probability, sampling distributions, confidence intervals, inference, and regression and correlation. Emphasis is given to business applications.
- 390: Quantitative Methods for Business and Economics. 0-3-3. Preq., junior standing. Presentation and review of pertinent quantitative topics to furnish the necessary background for the graduate quantitative methods field of study.
- 430: Management Science Methods. 0-3-3. Preq., MGMT 333. Linear programming including sensitivity analysis, the transportation problem, inventory analysis, and PERT.
- 432: Intermediate Business Statistics. 0-3-3. Preq., QA 233. Applied statistical methods utilizing the computerized Statistical Analysis System; multiple regression and correlation, Chi-Square, analysis of variance, and non-parametric methods. (G)
- 522: Advanced Business Statistics. 0-3-3. Prcq., QA 432. Applied statistical methods utilizing the computerized Statistical Analysis System (SAS): multiple regression and correlation, biased regression, analysis of variance, multiple comparisons, and non-parametric methods.
- 525: Quantitative Approaches for Decision-Making. 0-3-3. Preq., QA 233 and QA 390 or consent of instructor. Survey of the quantitative and statistical methods for managerial decision making.
- 540: Advanced Management Science Methods, 0-3-3. Preq., QA 430 or consent of instructor. Quantitative decision-making including linear, integer and parametric programming; project planning and scheduling with CPM/PERT and MAP as applied to business management.
- 550: Directed Study in Quantitative Analysis. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of quantitative analysis.
- 605: Methods of Business Research. 0-3-3. Preq., QA 522 or consent of instructor. Formulation of statistical hypotheses germane to business research. Determination of the experimental conditions and extraneous conditions. Methods of measurement and the statistical analysis required.
- 610: Multivariate Statistics: Business Applications. 0-3-3. Preq., QA 522. Regression extensions, canonical correlation, multivariate ANOVA, discriminant, business applications, principal components using SAS, SPSS, and BMD, factor and cluster analysis.
- 620: Seminar in Management Science. 0-3-3. Study of current topics in the discipline of Management Science. In-depth analysis of a specialized field along with an investigation of the literature.
- 622: Advanced Business Statistics. 0-3-3. Preq., QA 432. Requires Doctoral standing. May require additional class meetings. Applied statistical methods utilizing the computerized Statistical Analysis System (SAS): multiple regression and correlation, biased regression, analysis of variance, multiple comparisons, and non-parametric methods. Credit will not be given for QA 622 if credit is given for QA 522.
- 640: Advanced Management Science Methods. 0-3-3. Preq., QA 430 or consent of instructor. Requires Doctoral standing. May require additional class meetings. Quantitative decision-making including linear, integer and parametric programming; project planning and scheduling with CPM/PERT and MAP as applied to business management. Credit will not be given for QA 640 if credit is given for QA 540.
- 650: Directed Study in Quantitative Analysis. 1-3 hours credit. Hours and credits to be arranged. Consent of instructor and approval of department head required. Special problem or specific area of quantitative analysis.
- 685: Comprehensive Exam in Quantitative Analysis. No credit. Doctoral standing required. Required for all business administration doctoral students seeking to take the comprehensive exam in quantitative analysis. Successful completion is a prerequisite to the oral comprehensive exam for those seeking a primary field or examined minor in quantitative analysis. Requires consent of graduate director.

READING (READ)

099: Developmental Reading. 0-3-3. Builds reading fundamentals that are essential for comprehension of college-level textbooks. Develops skills in word recognition, comprehension, functional reading, vocational, library and reference skills. (Pass/Fail)

- 200: Reading Skills Improvement. 0-3-3. This course is designed to assist any student who would like to improve basic reading skills. Emphasis on comprehension, concentration and speed.
- 531: Foundations of Reading. 0-3-3. Clinical experience in diagnosing reading problems of school children.
- 532: Reading Curriculum Materials and Development, 0-3-3. Analysis of reading curriculum and development of instructional materials for various levels of reading ability.
- 535: Clinical Reading I. 10-2-3. Clinical experience in diagnosing reading problems of school children.
- 536: Clinical Reading II. 10-2-3. Practicum in remedial reading for school children.
- 538: Supervision and Curriculum Development in Reading. 0-3-3. Construction of an innovative curriculum in reading, plans for implementation of new curriculum, and supervision of the reading program.
- 544: Reading in the Content Areas. 0-3-3. Provides teaching methods and research findings related to the reading process as it applies to the various content areas of the curriculum.

RUSSIAN (RUSS)

- 101: Elementary Russian I. 0-3-3. Introduction to contemporary spoken and written forms of Russian; emphasis on communicative competence.
- 102: Elementary Russian II. 0-3-3. Preq., RUSS 101. Continuation of introduction to contemporary spoken and written forms of Russian; emphasis on communicative competence.
- 201: Intermediate Russian I. 0-3-3. Preq., RUSS 102. Study of the more complex grammatical structures of Russian; emphasis on developing communicative competence and basic skills in reading and writing.
- 202: Intermediate Russian II. 0-3-3. Preq., RUSS 201. Study of the more complex grammatical structures of Russian; emphasis on developing communicative competence and basic skills in reading and writing.
- 203: Intermediate Russian III. 0-3-3. Preq., RUSS 202. Study of the more complex grammatical structures of Russian; emphasis on developing communicative competence and basic skills in reading and writing.
- 301: Russian Conversation. 0-3-3. Preq., RUSS 203. Emphasis on developing conversational fluency in Russian in a variety of academic and social contexts.
- 302: Russian Composition. 0-3-3. Preq., RUSS 203. Development of skills in writing Russian in a variety of academic and social contexts.
- 303: Russian Phonetics. 0-3-3. Preq., RUSS 203. Intensive study of the Russian phonological system; exercises for refining skills in pronunciation, intonation, and stress patterns.
- 310: Russian Short Prose Fiction. 0-3-3. Preq., RUSS 301 or permission of department head. In Russian. Russian short story, skazka, rasskaz, povest' and the novella. Includes works by Pushkin, Gogol, Lermontov, Chekhov, Babel, Rasputin, Tolstaya, Makanin, and others.
- 425: Russian Literature in English Translation. 0-3-3 (6). Representative works of Russian literature from the 19th and 20th centuries; repeatable for credit with different course content. May not be counted towards a minor in Russian. Also listed as ENGL 425. (G)

SOCIAL SCIENCE (SOSC)

470: Senior Reading Program. 3 hours credit (9). A reading/research course optional for all majors in geography, political science, and sociology.

SOCIOLOGY (SOC)

- 201: Principles and Elements of Sociology. 0-3-3. An introduction to the structures and processes of group behavior. Statewide Transfer Agreement Course*.
- 202: Social Problems. 0-3-3. Selected social problems in contemporary American society. Statewide Transfer Agreement Course*.
- 205: Introduction to Anthropology. 0-3-3. Introduction to the origin and development of man; the nature and development of culture. Statewide Transfer Agreement Course*.
- 210: Introduction to Criminal Justice. 0-3-3. A survey of the criminal justice system, its history and organization at the local, state and federal levels.
- 230: The Social Welfare System in the United States. 0-3-3. A study of the social welfare system and the effort to prevent or resolve social problems encountered by individuals, groups, families, and communities.

304: Social Psychology, 0-3-3. Preq., PSYC 102 or SOC 201. A study of the nature of social behavior; a psychological analysis of society and social institutions.

306: Juvenile Delinquency. 0-3-3. Preq., PSYC 102 or SOC 201 or 202. The nature, causes, extent, and methods of treatment of juvenile delinquency.

- 308: The Family. 0-3-3. A study of the family as a social institution with comparisons of family life in various societies.
- 312: Race and Ethnic Relations. 0-3-3. Preq., SOC 201 or GEOG 205 or 210. Factors & conditions which underlie disagreement about fundamental values; their relation to social maladjustment; evaluation of theories; group approaches to reintegration. Also listed as GEOG 312.
- 313: The Sociology of Deviance. 0-3-3. Factors and conditions which underlie disagreement about fundamental values; their relation to social maladjustment; evaluation of theories; group approaches to reintegration.
- 314: Criminology. 0-3-3. Theories of the origins of crime; analysis of specific types of offenders, prevention, control, and treatment.
- 320: Research Methods. 0-3-3. Preq., Statistics course or consent of instructor. Scientific methods and their application in social analysis; procedures in testing sociological theory; computer and data analysis.
- **330:** An Introduction to Social Work. 0-3-3. An examination of Social Work within the social welfare system. A review of the multiple roles of the social worker in service delivery and practice.
- 340: Urban Sociology. 0-3-3. Preq., SOC 201. The influence of socio-cultural factors and their consequences for urban America.
- 345: Social Stratification. 0-3-3. Types and results of social inequality; social class, status and power as determinants of behavior, values and life chances.
- 401: Social Theory. 0-3-3. Preq., SOC 201, Junior standing or consent of instructor. The development of sociological theory and its relation to research.
- 410: Family Violence. 0-3-3. A sociological examination of the types, extent, causes, and consequences of violence between family members and intimate partners; policy implication are explored.
- 416: Sociology of Education. 0-3-3. The education system and the larger society; education as a social structure and process; implications for students, parents, teachers, and administrators.
- 418: Social Control. 0-3-3. Preq., SOC 201. Informal and formal regulative processes in social behavior, with reference to techniques and processes of social control.
- 420: Treatment of Offenders. 0-3-3. Preq., SOC 314. A study of principles of treatment of offenders; application of social science principles to treatment of offenders; interviewing, guidance, and counseling of offenders.
- 424: The Sociology of Corrections. 0-3-3. Trends, issues and problems in the field of corrections.
- 425: Family Therapy. 0-3-3. Preq., SOC 201 or FCS 210 or SOC 308. A survey of family therapy; the family as a system; theoretical models of modern practice, state laws and policies; code of ethics governing family therapy.
- **435:** Sociology of Aging. 0-3-3. Preq., SOC 201 or consent of instructor. Social and biological problems as a consequence of aging. Current issues, deficiencies and resources available to deal with specific problems.
- **436:** Grieving and Loss. 0-3-3. An analysis of loss, grief and bereavement. An assessment of services, programs, treatments, stress reduction techniques and communication skills.
- 437: Retirement and Community. 0-3-3. Preq., SOC 201 or consent of instructor. Seminar for advanced students. An examination of retirement and the various environments in which people age.
- **438:** Illness & Healing, 0-3-3. A sociological examination of the illness experience, and social and ethical aspects of treatment.
- 444: Substance Abuse. 0-3-3. Social, cultural and individual problems associated with alcohol and drug use. Family and other group responses. The nature and treatment of alcoholism and drug addiction.
- 450: Sociology of Religion. 0-3-3. Seminar for advanced students in social sciences. An examination of religion as a multilevel sociological phenomenon.
- 455: Social Movements and Collective Behavior. 0-3-3. Preq., SOC 201. Seminar for advanced students in social sciences. Social movements and collective behavior as studied in sociology, such as fads, migrations, mass hysteria, disaster reactions, and riots.

SPANISH (SPAN)

- 101: Elementary Spanish. 0-3-3. Conversation reading and grammar. Nonnative speakers only. Statewide Transfer Agreement Course*.
- 102: Elementary Spanish. 0-3-3. Preq., SPAN 101. Conversation reading and grammar. Non-native speakers only. Statewide Transfer Agreement Course*.
- 201: Intermediate Spanish. 0-3-3. Preq., SPAN 102. Structure, cultural reading, conversation. Non-native speakers only. Statewide Transfer Agreement Course*.
- 202: Intermediate Spanish. 0-3-3. Preq., SPAN 201. Structure, cultural reading, conversation. Non-native speakers only. Statewide Transfer Agreement Course*.
- 301: Spanish Conversation and Composition. 0-3-3. Preq., SPAN 202. Non-native speakers only. Conversation on everyday topics and review of elements of Spanish through structured compositions.
- 302: Spanish Conversation and Composition. 0-3-3. Preq., SPAN 202. Non-native speakers only. Conversation on everyday topics and review of elements of Spanish through structured compositions.
- 380: Readings in Spanish Literature. 0-3-3. Preq., SPAN 301 and/or 302 or permission of department head. Required for major in Spanish. A survey of the masterpieces of Spanish literature.
- 381: Readings in Spanish American Literature. 0-3-3. Preq., SPAN 301, 302 or permission of department head. Required for major in Spanish. Survey of the masterpieces of Spanish American literature.
- 403: The Novel in Spain. 0-3-3. Preq., SPAN 380, 381 or permission of department head. Study of the novel in Spain from the sixtcenth century to the present.
- 405: The Modern Drama of Spain. 0-3-3. Preq., SPAN 380, 381 or permission of department head. Study of the drama in Spain in the 19th and 20th centuries.
- 407: The Novel of Latin America. 0-3-3. Preq., SPAN 380, 381 or permission of department head. Study of representative novels of Latin America. Mexico excepted.
- 408: Spanish Civilization. 0-3-3. Preq., SPAN 380, 381 or permission of department head. Lectures and readings in Spanish history, geography, government, language, music art, etc.
- 425: The Novel in Mexico. 0-3-3. Preq., SPAN 380, 381 or permission of department head. A study of outstanding novels from 1800 to the present.
- **426:** Spanish Literature in English Translation. 0-3-3 (6). Representative works of Spanish literature from the Middle Ages to the 20th century. Offered in English translation; repeatable for credit with different course content. May not be counted towards a major or minor in Spanish. Also listed as ENGL 426. (G)
- 427: Latin American Literature in English Translation. 0-3-3 (6). Representative works of 20th century Latin American literature; repeatable for credit with different course content. May not be counted towards a major or minor in Spanish. Also listed as ENGL 427.(G)
- 450: The Spanish Language. 0-3-3. Preq., 21 hours of Spanish or permission of department head. Advanced grammar. General characteristics of the language, including sources, etymology, dialects.
- 460: Applied Linguistics for Spanish. 0-3-3. Preq., SPAN 450 or permission of department head. Pertinent theories of psycholinguistics and sociolinguistics. Contrastive study of Spanish and English patterns and structures.
- 480: Commercial Spanish. 0-3-3. Preq., SPAN 450 or permission of department head. Study of common commercial forms for use in Spanish correspondence and business.

SPECIAL EDUCATION (SPED)

- 300: Introduction to Exceptional Students. 0-3-3. A survey of the physical, emotional, social, and learning characteristics of exceptional students; educational programs; incidence and prevalence.
- **301:** Specific Learning Problems in Students. 0-3-3. Preq., SPED 300. Learning principles, issues, specific deficits in learning; assessment and remediation of problems in visual and auditory perception, cognitive processes, language; gross and fine motor coordination.
- 302: Characteristics of Exceptional Students. 0-3-3. Preq., SPED 300. Specific problems in cognitive, language and social skills related to academic and vocational training, special educator's role in management, planning, and resource or community interaction.
- 303: Characteristics of Severely and Profoundly Handicapped Students. 0-3-3. Preg., SPED 300. An overview of education of student classified as

scvcrely and profoundly handicapped, including educationally relevant physical, cognitive and behavioral characteristics.

- 325: Introduction to Mental Retardation. 0-3-3. Preq., SPED 301. Medical, psychological, social, and educational aspects of mental retardation.
- 335: Information on Childhood Diseases and Crippling Conditions. 0-3-3. Emphasis on orthopedic conditions and chronic medical health problems with implications for education, psychology, social work, and occupational, physical, and speech therapy.
- 340: Management of Behavior Disorders. 4-2-3. Preq., SPED 300. Foundations of behavioral science, operant analysis of human behavior, learning principles, behavior modification principles and techniques; educational programs, supervised application of skills and techniques covered.
- 341: Psycho-social Management of Exceptional Students. 4-2-3. Preq., SPED 300. Non-bchavioral teaching interventions emphasizing biophysical, psychodynamic, sociological, and ecological strategies; supervised application of skills and techniques using an instructional model that synthesizes strategies covered.
- 360: Education of the Partially Seeing Child. 0-2-2. Preq. SPED 301. Learning behavior, curriculum adaptation, educational programs, environmental movement and control, and behavioral characteristics of children with visual impairment.
- 375: Education Procedures and Materials in Special Education. 4-2-3. Preq., SPED 300 and 302 or permission of instructor. Educational procedures in developing and implementing curricula in the areas of selfhelp, language, social skills, motor skills, vocational skills, cognitive skills, and functional academics.
- 376: Materials and Methods for Severely and Profoundly Handicapped Students. 4-2-3. Prcq., SPED 303 or permission of instructor. Educational procedures in developing and implementing curricula in the areas of self-help, language, social skills, motor skills, vocational skills, cognitive skills, and functional academics.
- 460: Introduction to the Education of Exceptional Preschool Children. 2-3-3. An introduction to the nature and needs of preschool handicapped children. Students will review literature, publications, trends, and model programs. (G)
- 461: Teaching Strategies for Exceptional Preschool Children. 4-2-3. Preq., SPED 300, 460, and FCS 301. Emphasis on specific programs, materials and strategies for teaching young preschool children who have serious handicapping conditions. Areas covered include perceptual, motor, and intellectual development. (G)
- 462: Language and Cognitive Development in Exceptional Preschool Children. 4-2-3. Preq., SPED 461. An emphasis on the identification, assessment and remediation of problems in language and cognitive development of preschool handicapped children.
- 463: Early Identification and Evaluation of Exceptional Children, 4-2-3. Preq., SPED 460. Early identification and evaluation principles and procedures, parent interviews, norm-and criterion-referenced measure; diagnostic evaluation assessment incorporated into individualized educational planning. (G)
- 464: Parent Involvement and Community Resources for Education for the Exceptional Student. 0-3-3. Preq., SPED 300 and 460. Parentteacher duality roles and the dyadic process between student and teacher; material planning and implementation hy parents through teacher modeling; community services. (G)
- 465: Interagency Services in Special Education. 4-2-3. Preq., SPED 300 and 460. Study of related services to the handicapped, team control and contributions, strategies used in integrating overall life-experience planing and implementation. (G)
- 471: Prevocational Skills and Procedures for Exceptional Students. 4-2-3. Preq., SPED 375 and 475. Competency-based prevocational education incorporated with curriculum design and informal assessment; long-term planning for vocational needs, occupational guidance.
- 477: Advanced Procedures in Educating Severely and Profoundly Handicapped Students. 4-2-3. Preq., SPED 303 and 376 or permission of instructor. Diagnostic-prescriptive teaching procedures for educating severely and profoundly handicapped students, including criterionreferenced assessment procedures and individualized educational programming. (G)
- 490: Psycho-social and Educational Appraisal of Exceptional Students. 3-2-3. Preq., EDUC 402 and SPED 300 or consent of instructor. Concepts of measurement applied to exceptional students; normative assumptions; measures of receptive and expressive language; social maturity; and perceptual-motor functions, observations of procedures. (G)

- **495:** Psycho-social and Educational Appraisal of Exceptional Students II. 7-2-3. Preq., SPED 490. Supervised administration of individual diagnostic tests, developmental scales, measure for the handicapped, interpretation and application to individualized educational planning and report writing. (G)
- 500: Curriculum Design for Exceptional Students. 4-2-3. A examination of issues and strategies required in selecting and developing curriculum for exceptional students. Emphasis on the scope and sequence of curriculum for all areas of exceptional students.
- 501: Contemporary Issues in Special Education. 0-3-3 (6). Historical and comparative approaches to theoretical issues and research, critical examination of assumptions, sampling, and factics of research.
- 503: Educationally Disadvantaged. 0-3-3. Biological, learning, interpersonal, and motivational determinants of behavior, cultural deprivation as a factor in school learning; educational implications.
- 510: The Exceptional Adolescent Student. 0-3-3. Advanced course designed to acquaint the student with the complex challenges of the exceptional adolescent. Emphasis on remedial efforts, pre-vocational and vocational skills needed by the exceptional adolescent.
- 517: Curriculum for the Gifted/Talented. 0-3-3. Preq., consent of area coordinator. Curriculum models in gifted/talented education, emphasizing essential principles and skills necessary for designing, implementing, and evaluating educational plans for gifted/talented students.
- 520: Advanced Study: Mental Retardation. 0-3-3. Preq., EDUC 541 and SPED 501. Advanced study of the biological, social, and psychological factors in retarded behavior.
- 530: Advanced Study: Nonsensory Physically Impaired. 0-3-3. Preq., EDUC 541 and SPED 501. Advanced study of the biological, social and psychological factors in crippling conditions and special health problems.
- 540: Advanced Study: Behavior Disorders. 0-3-3. Preq., EDUC 541 and SPED 501. Advanced study of the biological, social, and psychological factors in behavior disorders.
- 560: Administration in Special Education. 0-3-3. The major administrative and supervision functions necessary for the effective operation of special education programs and the major areas of knowledge necessary to carry out these basic functions.
- 562: Advanced Study: School-Related Language Problems in Special Education. 0-3-3. Analysis of language deviations and disorders in classroom situations, understanding of assessment, approaches and models for remediation/enrichment. Intervention and flexibility in curriculum development.
- 570: Advanced Study: Learning Disabilities. 0-3-3. Advanced study of the biological, social, and psychological factors in learning disabilities.
- 575: Behavior Technology in Special Education. 3-2-3. Preq., SPED 475. Remediation of severe learning and behavior problems in students through programming and behavior modification; use of automated equipment for direct control of stimuli and contingencies.

SPEECH THEATRE (SPTH)

- 101: Stagecraft. 4-2-3. Practical experience in scenery construction, painting, stage lighting, and organizational techniques.
- 201: Introduction to Theatre. 0-3-3. A comprehensive overview of the elements that comprise the theatre; intended as a basic preparation for an understanding of theatre art.
- 240: Acting. 4-2-3 (9). Basic training in the art of acting with emphasis upon physical and vocal skills as well as fundamentals of relaxation and public performance.
- 290: Theatre Appreciation. 0-3-3. A study of Theatre and its different forms and how they affect our life and society. Statewide Transfer Agreement Course*.
- **307:** Play Production. 3-3-3 (9). Preq., SPTH 201, 240, or 409. The director's introduction to play production: script analysis, research, staging, actor coaching, scenery, lighting, and costuming.
- 400: Stage Makeup. 3-0-1. Practical experience in the design and application of stage makeup. (G)
- 402: Advanced Acting, 8-1-3 (9). Preq., SPTH 240 or consent of instructor. A study in the practice of the major period styles of acting from ancient Greece to the present. (G)
- **403:** Stage Lighting, 4-2-3. Preq., SPTH 201 or consent of instructor. Practical and theoretical experience in stage lighting, design, and equipment. (G)
- **404:** Theatre Practicum. 4-0-1 (12). Practical experience in interpretation, acting, directing, or technical theatre.

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- 405: Scene Painting, 3-0-1. Preq., SPTH 101. Practical experience in the art of scene painting, using both historical and modern techniques and solutions. (G)
- 407: Play Direction. 3-3-3 (9). Preq., SPTH 307. Advanced course in directing methodologies, including the practical experience of directing a publicly performed short play. (G)
- 408: Technical Direction and Stage Technology. 4-2-3. Preq., SPTH 101. Practical experience in advanced theories of stage technology, shop management, budgeting, cost effective solutions and construction practices. (G)
- 409: Stage Management. 0-3-3. Preq., SPTH 201. A study of the responsibilities, organization, and methods used in the operations of the stage manager in theatre. (G)
- 410: Studies in Scene and Costume Design. 0-3-3. Preq., SPTH 201 or consent of instructor. A study of the theories of color, design, rendering, graphic techniques, and perspective as they pertain to scene and costume design for the stage. (G)
- 414: Sound for the Theatre. 4-2-3. Preq., SPTH 201 or consent of the instructor. Practical and theoretical experience in sound reinforcement, design, and equipment, and their uses in both commercial and non-commercial stage. (G)
- 415: Shakespeare. 0-3-3. The major plays and the poems. (Same as English 415.) (G)
- **423:** Dance for the Theatre. 3--1-1 (3). A course in the advanced movements of Ballet, Jazz, and Modern Dance that are used in musical Theatre. (G)
- 427: Movement for the Stage. 3-1-1 (6). A performance class that introduces traditional techniques of movement styles for the stage and offers a survey of contemporary movement theory. (G)
- **428:** Contemporary Developments in Theatre. 0-3-3. A study of theatre development since 1900. This course will cover trends, movements, and genres in all areas of theatre. (G)
- 434: History of the Theatre 1. 0-3-3. Study of the theatre from ancient origins through the Restoration. Focus on literature, production, style, performance, and historical context. (G)
- **435:** History of the Theatre II. 0-3-3. Study of the theatre from the 18th Century to 1960. Focus on literature, production, style, performance, and historical context. (G)
- 471: The Craft of Dramatic Writing. 0-3-3. An introduction to writing for the actor with emphasis on projects aimed at focusing on the structures of character, action, and dialogue. (G)
- 472: Advanced Dramatic Writing. 0-3-3 (6). Preq., SPTH 471 or signature of instructor. Studies in the craft of dramatic writing with varying areas of concentration including research, adaptation, writing for the screen, stage, radio, video, etc. (G)
- 480: Voice for the Stage. 0-3-3. A study of the use and training of the human voice for performance utilizing the Lessac system of voice training. (G)
- 490: Arts Management. 0-3-3. An overview of arts management in the fields of performing and visual arts. Included are basic management principles, personal management, and organizational structures and procedures. (G)
- 491: Promotion. 2-3-3. Study of promotional theory that enables students to design, produce and evaluate promotional campaigns for fine arts institutions and events. (G)
- 502: Studies in Scene Design. 0-3-3. Preq., SPTH 401. A seminar course in the theory, practice, and history of scene design for the theatre.
- 503: Studies in Lighting Design. 0-3-3. Preq., SPTH 403. A seminar course in the history, theory, and practice of lighting design for theatre, opera, dance, and other media.
- 511: Studies in Stage Costuming. 0-3-3. Preq., SPTH 406. A seminar course in the history, theory, and practice of design and construction of stage costumes.
- 515: Theatre Management. 0-3-3. Preq., SPTH 491. Study of theatre management concentrating on organization of business and administrative areas of theatre.
- 516: Arts Administration. 0-3-3. Study of arts administration concentrating on the theories and practices involved in the business aspects of theatre.
- 518: Interpretation of Contemporary Drama. 0-3-3. Preq., SPTH 315 and 319. A study of American and European drama from 1940 to the present.
- 531: History of Drama. 0-3-3. Preq., SPTH 424. A survey of dramatic literature from ancient times to the present.
- **533:** Theories of Performance. 0-3-3. A seminar course examining the theories of major innovators in acting and directing from the ancient Greeks to the present.
- 536: Analysis and Criticism of Drama. 0-3-3. A seminar course in the theory of critical analysis of drama from Aristotle to the present.

SPEECH (SPCH)

- 110: Principles of Speech. 0-3-3. Designed to develop the principles of effective oral communication in typical speaker-audience situations, through practice in informative and persuasive speaking. (Cannot be taken for credit if student has credit for SPCH 377.) Statewide Transfer Agreement Course*.
- **202:** Supervised Observation. 3-0-1. This course is designed to provide students with supervised observation of diagnostic and therapy sessions with clients who present speech, language and/or hearing disorders.
- 210: Introduction to Communicative Disorders. 0-3-3. A study of the various disorders of communication, their nature, etiology, and treatment.
- 211: Public Speaking. 0-3-3. Preq., SPCH 110 or permission of instructor. This course is concerned with developing advanced skill in special occasion speeches, the book review, the entertaining speech, and effective reading from an original speech.
- 222: Phonetics. 0-3-3. Principles of phonetics; articulatory phonetics; description and classification of sounds; transcription at different levels of detail; production and perception included.
- 260: The Mass Media. (0-3-3). Consideration of these media from the viewpoint of their audience; emphasizes the development of objective standards for evaluating mass communication. Open to all students.
- 300: Discussion and Debate. (0-3-3). A study of the principles of group discussion and debate with practical experience in each. Statewide Transfer Agreement Course*.
- **301:** Anatomy and Physiology of the Speech and Hearing Mechanism. 0-3-3. Functional anatomy and physiology of those structures associated with speech production and reception.
- **302:** Introduction to Speech and Hearing Science. 0-3-3. Comprehensive survey of the communicative process from the speaker to the listener, speech production, acoustics, and speech perception.
- 308: Dactylology. 0-2-2. An introductory course in manual communication of the deaf; emphasis on drills and exercises to help students acquire a sign vocabulary and conversational fluency.
- **312:** Clinical Procedures. 7 1/2-2-4. Students are taught principles and procedures used with clients with speech disorders through lecture, observation and supervised clinical experience.
- 315: Oral Interpretation of Literature. 0-3-3. Preq., SPCH 110. Advised, SPCH 211. The development of responsiveness to prose, poetry, and drama, and the ability to communicate the logical, emotional, and aesthetic elements to others.
- 325: Introduction to Communication Research Methods. (0-3-3). A study of the goals and methods of research with emphasis on understanding the nature and structure of communication.
- 377: Professional Speaking. 0-3-3. Designed to establish a foundation for effective speaking in informative speaking, in the interview, and in communication from the manuscript. (Cannot be taken for credit if student has credit for SPCH 110.)
- 411: Diagnostic Procedures. 0-3-3. Principles and procedures for differential diagnosis of speech and language disorders. Administration and interpretation of various tests, parent interviewing, and clinical observation of behavior.
- **413:** Articulation. 0-3-3. A study of the nature, etiology, and retraining procedures related to defective articulation with emphasis on current research.
- 417: Seminar in Speech Communication. (0-3-3). Selected current issues/topics in an identified area of theory or application within the field of Speech Communication.
- **418:** Language Disorders in Children. 0-3-3. Preq., SPCH 470. A beginning course in the study of language disorders in children with emphasis on evaluation and treatment procedures.
- 430: Nonverbal Communication. 0-3-3. Study of the effects of space, physical properties of persons, movement, eye and vocal behavior on interpersonal communication.
- 431: Organizational Communications. 0-3-3.Focuses on the factors related to communication processes within government, private, and volunteer organizations.
- **433:** Applied Organizational Communication. (0-3-3). Application of communication practices in organizational settings including the practical considerations that arise in conducting communication surveys.
- 440: Interpersonal Communication. 0-3-3. Study of the verbal and nonverbal dimensions of interpersonal relationships including dialogues, interviews and dyadic systems.

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- 443: Introduction to Audiology. 0-3-3. Study of the auditory mechanism, physics of sound, the process of hearing, disorders of hearing and their treatment. (G)
- 451: Communication Training and Development. (0-3-3). Critical analysis and practical application of the relationship between the study of communication and training and development.
- 455: Communication Theory. (0-3-3). An examination and synthesis of theoretical approaches to contemporary communication theory with special emphasis on interpersonal contexts.
- 460: Applied Forensics. 3-0-1 (9). Practical experience in debate and other forms of forensic speaking. May be repeated for a maximum of 9 hours credit.
- 465: Applied Practicum. 6-0-2 (6). Practical experience in clinical activities related to service programs. May be repeated for a maximum of 6 hours credit. Registration by permission of instructor.
- 466: Group Processes. 0-3-3. Theory and practice of conducting group meetings, group discussions, to include parliamentary procedure.
- 470: Language and Speech Development. 0-3-3. Study of the normal acquisition and maintenance of speech and language; theoretical formulations about speech and language behavior, and approaches to its study. (G)
- 500: Introduction to Research. 0-3-3. A course designed to introduce students to research applicable to speech and theories of measurement including statistical and behavioral designs, reliability and judgments.
- 501: Seminar. 0-3-3. Individual problems and research in any of the following general areas of concentration: speech communication; speechlanguage pathology; audiology; theatre arts. Registration by permission of instructor.
- 504: Language Disorders in Children: Remediation. 0-3-3. Prcq., SPCH 520 and permission of instructor. Etiologics, remediation techniques, principles, and programs for the language disorders found among children and adolescents.
- 505: Measurement of Hearing. 0-3-3. Study of audiometric procedures including pure tone air and bone conduction testing. Clinical masking speech audiometry, and oto-acoustic immitance procedures, measurements.
- 507: Dysphagia. 0-3-3. A study of the ctiology, symptomatology, and anatomic/behavioral characteristics of dysphagia with an emphasis on principles and methods of diagnosis and treatment.
- 508: Practicum in Communicative Disorders. 1-3 hour(s) credit (18). Supervised clinical experience with individuals who have disorders of communication.
- 509: Instrumentation and Calibration. 0-3-3. A study of the procedures, instruments, and standards used for calibration of audiometric equipment. Measurement of noise levels and OSHA guidelines will be reviewed.
- 510: Speech Science, 0-3-3. Study of normal speech and voice production with emphasis on the respiratory, articulatory, and phonatory mechanisms, and speech perception.
- 512: Audiological Correlates of Language Disorders in Adults. 0-3-3. Preq., Permission of Department Head. Language changes/disorders associated with normal aging and a neurogenic origin with management implications for the audiologist.
- 513: Articulation Disorders. 0-3-3. Preq., permission of instructor. Study of current research in testing, prediction, and management procedures for articulation disorders.
- 514: Assistive Technology/Augmentative Communication for Speech-Language Pathologists and Audiologists, 1-3 hours credit (6). Preq., Permission of Department Head. An overview of assistive technology and augmentative communication devices, techniques for assessment and implementation, and funding issues. May be repeated for up to 6 semester hours credit.
- 516: Hearing Disorders. 0-3-3. The effects of pathologies of the auditory system on basic and advanced audiometric tests are studied.
- 517: Hearing Science. 0-3-3. A study of basic acoustics, psychoacoustics and physiological acoustics.
- 519: Professional Issues in Speech-Language Pathology and Audiology, 0-1-1 (6). Preq., Permission of Department Head. Issues and professional responsibilities related to the professional practice of speech-language pathology and audiology. Three semester hours required of all graduate students in SLP/A in the first year of study; may be taken for three additional semester hours with permission of Department Head.
- 520: Language Disorders in Children: Assessment. 0-3-3. Preq., permission of instructor. A study of standardized and non-standardized techniques used to assess language disordered children and adolescents.

- 521: Anatomy and Physiology of the Hearing Mechanism. 0-3-3. Structure and function of bodily organs related to the processes of hearing.
- 522: Clinical Methods for Speech-Language Pathology and Audiology, 1-3 hours credit (6). Preq., Permission of Department Head. Methods of clinical practice for speech-language pathology and audiology. May be repeated for up to 6 semester hours credit.
- 523: Adult Language Disorders. 0-3-3. Preq., permission of instructor. A study of acquired language disorders associated with brain damage in adults with an emphasis on symptomatology, assessment, and diagnosis.
- 524: Voice Disorders. 0-3-3. Preq., permission of instructor. A study of the etiology, symptomatology, and treatment procedures for voice disorders, including those that result from laryngeal pathologies.
- 525: Cleft Palate. 0-3-3. A study of the articulatory, resonance, and phonatory problems associated with cleft palate and facial maxillary disturbances including medical and speech therapy, habilitative and rehabilitative procedures.
- 526: Disorders of Fluency. 0-3-3. Preq., permission of instructor. A critical review of the literature to synthesize information regarding the definitions of fluency disorders, theorics of etiologies, symptomatology, and treatment.
- 527: Advanced Diagnostic Procedures. 0-3-3. A study of formal and informal assessment procedures applicable to speech/language disorders. Emphasis on the role of differential diagnosis, specialized test procedures, and referral procedures.
- 528: Motor Speech Disorders. 0-3-3. Preq., permission of instructor. A study of motor speech disorders that result from damage to the central and peripheral nervous systems, their etiologies, symptomatology, diagnoses, and management.
- 529: Management of Adult Language Disorders. 0-3-3. Preq., SPCH 523 and permission of instructor. Clinical management of acquired adult language disorders.
- 530: Special Problems in Communicative Disorders. 0-3-3. Registration by permission of instructor. Individual research assignments in speech pathology and audiology.
- 533: Differential Audiology. 0-3-3. Discussion, demonstration, and interpretation of behavioral tests used to differentiate hearing disorders.
- 534: Qualitative Research Methods. 0-3-3. The use of observational and interviewing research techniques for studying human communication.
- 535: Hearing Aids. 0-3-3. Involves discussion of hearing aids, selection procedures, and the amplification needs of the individual.
- 537: Seminar in Interpersonal Communication. 0-3-3. Interpersonal communication theory and research including topics concerning acquaintance, attitudes, language, nonverbal codes, and dyadic and small group communication patterns.
- 539: Seminar in Organizational Communication. 0-3-3. Topics include theories of organizational communication, consultation, research and field experience in organizations, communication in organizational settings, and communication styles in decision making.
- 540: Industrial Audiology. 0-3-3. Directed toward the study of management and control of hearing problems in industry, and conservation of hearing in occupations and activities involving excessive noise exposure.
- 541: Physiological Tests of Auditory Function. 0-3-3. Auditory evoked potentials and electro-nystagmography examined in relation to purpose, scientific basis, procedures, and interpretation.
- 542: Seminar in Central Auditory Processing Disorders. 0-3-3. A study of central auditory processing disorders including examination of various auditory tests for central processing, including strengths and weaknesses of the tests.
- 543: Seminar in Pediatric Audiology. 0-3-3. A study of the investigation, identification, and assessment of children with audiological problems.
- 544: Communication in Small Groups. 0-3-3. Study of theory and research in the dynamics of small group communication processes with emphasis on the interaction of message variables with other variables.
- 545: Clinical Audiological Experience. 1 3 hour(s) credit (18). Supervised practicum in audiology including testing, aural habilitation/rehabilitation. report writing, and counseling clients with auditory problems.
- 546: Conference Course in Speech Communication. 0-3-3. Readings in the literature of speech communication designed to expand opportunities for individual consultation in research and in informational aspects of the students' work.
- 547: Internship. Advanced practicum in organizational communication in public, private and volunteer organizations.

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- **548:** Psychoacoustics. 0-3-3 (6). A study of the experimental areas of audiology that are directed toward developing a theory of auditory functioning. May be repeated one time for credit.
- 555: Externship in Communicative Disorders. 8 semester hours. 40 contact hours per week. Preq., permission of the instructor. Supervised clinical practicum in an affiliated off campus clinical facility.
- 556: Seminar in Aural Rehabilitation. 0-3-3. Review of topical areas in aural rehabilitation for the infant through geriatric population.
- 558: Seminar in Amplification. 0-3-3. A study of recent advances in technology, rehabilitation strategies, and measurement as applied to amplification for the hearing impaired.
- 559: Special Topics. 1-4 hours credit. Selected topics in an identified area of study in speech and hearing science, audiology, or speech-language pathology.

STATISTICS (STAT)

- 200: Basic Statistics. 0-3-3. Preq., Mathematics ACT score is greater than or equal to 26, or Mathematics ACT score is greater than or equal to 590, or Placement by Exam, or MATH 101. Sample statistics, frequencies, normal and binomial distributions, point and interval estimation, significance testing, linear regression. Statewide Transfer Agreement Course*.
- 402: Introduction to Statistical Analysis. 0-3-3. Preq., MATH 101, junior standing and consent of the instructor; non-COES majors only. Understanding and applying: descriptive statistics, p-values, estimation, significance, regression, correlation. Use of packaged computer programs. (G)
- 405: Statistical Methods. 0-3-3. Preq., MATH 242, Data description, discrete and continuous random variables, inferences about means and variances of populations, categorical data, regression, correlation, analysis of variance, computers in data analysis. (G)
- 505: Statistics for Engineering and Science. 0-3-3. Preq., MATH 242 or equivalent. Random variables and distributions, reliability, quality control, analysis of variance and regression, categorical data analysis, distribution-free methods, use of SAS in data analysis.
- 506: Regression Analysis, 0-3-3. Preq., STAT 405 or equivalent. Simple and multiple regression, inferences in regression, model formulation and diagnostics, analysis of covariance, nonlinear models, estimation and inference. Use of computers in data analysis.
- 507: Analysis of Variance. 0-3-3. Preq., STAT 405 or equivalent. Analysis of variance for standard and unbalanced experimental designs, multiple comparisons, fixed, random, and mixed effects models. Use of computers for data analysis.
- 510: Advanced Statistics For Quality Improvement. 0-3-3. Preq., STAT 506, 507,. Least squares, fractional factorials, Taguchi's parameter design, performance criteria, second-order designs, fitting second-order models, exploration of response surfaces, optimization.
- 511: Design of Experiments. 0-3-3. Preq., STAT 506 or 507 or 508, or equivalent. Factorial and fractional factorial experiments, incomplete block designs, repeated measures, split-plot, response surface, cross-over designs, use of computers for data analysis.
- 520: Applied Probability and Mathematical Statistics. 0-3-3. Preq., MATH 245, and a 400-level or above STAT course, Probability, random variables, discrete and continuous distributions, joint and conditional distributions, distribution of functions of random variables, expectations, moment generating functions.
- **550:** Practicum in Statistical Consulting. 0-1-1 (3). Preq., STAT 506, 507, 511, or equivalent. Working with clients on statistical problems arising in research, such as modeling, design, data analysis and interpretation.
- 606: Linear Statistical Models. 0-3-3. Preq., MATH 244 and 308, and STAT 506, 507, Generalized inverses, quadratic forms, Gauss-Markov theory, estimability, full rank models, non-full rank models, covariance analysis.
- 620: Theory of Probability. 0-3-3. Preq., any 500-level STAT Course, and MATH 244, Combinatorial analysis, conditional prohability, distribution theory, random variables, random vectors, limit theorems, random walks.
- 621: Theory of Statistics. 0-3-3. Preq., STAT 520 or 620. Point estimation, interval estimation, statistical hypotheses, statistical tests, nonparametric inference, normal distribution theory.
- 625: Multivariate Statistics. 0-3-3. Preq., STAT 506 or 507, MATH 308,. Tests of hypotheses on means, multivariate analysis of variance, canonical correlation, principle components, factor analysis, computer applications.

- 630: Nonlinear Models. 0-3-3. Preq., STAT 506 or 507, and MATH 244;. Parameter estimation, tests of hypotheses, confidence intervals and regions, measures of curvature, use of computer algorithms.
- 650: Time Series Analysis. 0-3-3. Prcq., MATH 244, and STAT 506,. Spectral analysis, least square filtering, parameter estimation, stationary random processes, ARIMA models, trend and seasonability.
- 651: Discrete Markov Processes. 0-3-3. Preq., MATH 244 and 308, and STAT 520, Probability generating functions, Markov chains, renewal processes, Poisson processes, branching processes.
- 652: Stochastic Processes. 0-3-3. Preq., STAT 520, and MATH 245, Birthdeath processes, random walks, diffusion processes.
- 680: Topics in Statistics. 0-3-3 (9). May be repeated for 3 hours credit each time.

STUDY SKILLS (STSK)

099: Developmental Orientation and Study Skills. 0-2-2. Identification and application of practical study techniques and attitudes associated with college success; identification of goals, time management and scheduling. (Pass/Fail)

UNIVERSITY SEMINAR (UNIV)

- 100: Orientation and Study Skills. 1-2 hour(s) credit. Orients new students to the University and facilitates the identification and application of practical study techniques and attitudes associated with college success; identification of goals, time management and scheduling.
- 101: Academic Skills Enhancement. 1-3-3. Required if Reading ACT score is less than or equal to 17. Orients new students to the University environment and builds reading and study skills fundamentals, which are essential for success in higher education.

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PART V

Councils, Committees, Commissions

The President and the appropriate Vice President are 'ex-officio' members of all councils and committees.

ADMINISTRATIVE AND PLANNING COUNCIL. Purpose: Serves as the comprehensive review, assessment, and planning Council for Louisiana Tech University. The Council is chaired by the President, and the membership includes administrators representing all areas of the University. Members: Daniel Reneau (Chair), Jo Ann Dauzat, Jerry Drewett, Pamela Ford, Les Guice, Wiley Hilburn, Edward Jacobs, Jim King, James Liberatos, Terry McConathy, Jim Oakes, Ken Rea, Shirley Reagan, Corre Stegall, Joe Thomas, Chair of the University Senate, and Student Government Association President.

ADMINISTRATIVE REVIEW BOARD. Purpose: Hears only appeals from recommendations of the Behavioral Standards Committee, and is vested with appellate jurisdiction only. Members: Vice President for Student Affairs (Chair), Vice President for Academic Affairs, and Dean of the College in which the student is registered.

AMERICANS WITH DISABILITIES ACT (ADA) COUNCIL. Purpose: Established to review issues relative to compliance with the Rehabilitation Act of 1973 and the Americans with Disabilities Act, to forward recommendations to the appropriate administrative level, and to serve as a grievance review board for appeals. Members: Margaret Alexander (Chair), Jan Albritton, Don Dyson, Linda Griffin, Ann Havard, Cheryl Myers, Richard Sisson, Sam Speed, and Sam Wallace.

ASTRONOMY ADVISORY COMMITTEE. Purpose: Oversees astronomical observing activities and serves in an advisory role to the planetarium at Louisiana Tech University. The Committee arranges star parties and observation of interesting astronomical events such as eclipses and comets, and is available to serve as a source of information. Also aids in improving the equipment at the planetarium. Members: Norman Witriol (Chair), William Deese, Tom Emory, and Natalia Zotov.

ATHLETICS COUNCIL. Purpose: Reviews intercollegiate athletic programs and activities and makes recommendations to the President for his consideration. Athletics Council members are appointed by the President. Members: James Liberatos (Chair), Robert Berguson, Mertrude Douglas, Sean Dwyer, Jim Dyer, Marvin Green, Les Guice, Wiley Hilburn, Terry McConathy, Ken Rea, Sam Speed, Martha Summers, Milton Williams, Student Representative, and Athletic Director (non-voting).

BEHAVIORAL STANDARDS COMMITTEE. Purpose: Serves as the disciplinary agent of the University in cases referred to it by the Vice President for Student Affairs or his representative. The Committee has appellate jurisdiction by a student from an adverse decision of the Vice President for Student Affairs which directly affects the complainant in his individual capacity. Members: The Committee members shall be selected from a roster composed from the following: twelve faculty members appointed by the Vice-President for Academic Affairs; twelve staff members appointed by the Vice President for Student Affairs, six SGA upperclassmen and six underclassmen appointed by the President of the University, and four chairpersons appointed by the Vice President for Student and Alumni Affairs. Four rotating committees, composed of faculty, staff, students and a chairperson, meet to hear discipline cases involving students.

CAMPUS COMPUTING SERVICES COORDINATING COMMITTEE. Purpose: Assess the campus needs for computing services and assign priorities to those needs. Members: Mel Corley (Chair), Tom Emory, Peter Gallagher, Chris Henderson, Kathleen Johnston, Jim King, Pam Milstead, Lori Myers, Bala Ramachandran, Gerald Reeves, Roy Waters, Walter Wicker, Sam Wallace, and Dena Westerfield.

COMMENCEMENT COMMITTEE. Purpose: Reviews activities associated with the graduation ceremony and make appropriate recommendations to the President. Members: Bob Vento (Chair), Eddie Blick, William Deese, Les Guice, Pat Moncrief, Marilyn Robinson, Jim Robken, Tommy Sisemore, and Jimmy Washington.

COUNCIL OF ACADEMIC DEANS. Purpose: Coordinates academic programs and policies for the University. The Council considers actions taken by the Instructional Policies Committee and the Graduate Council. Recommendations of the Council of Academic Deans are forwarded to the President for consideration and final approval. Members: Vice President for Academic Affairs (Chair), Deans of each academic college, Dean of the Graduate School, and the Dean of Enrollment Management.

CURRICULA EFFECTIVENESS COUNCIL. Purpose: Established as a strategic initiative to formulate a plan to evaluate curricula to ensure effectiveness in the development of identified skills. Members: Jo Ann Dauzat (Chair), Gary Hauser, Donald Kaczvinsky, Tom Means, Cheryl Myers, Lori Myers, Randall Parker, Linda Ramsey.

DNA/BIOHAZARDS/RADIOACTIVE INSTITUTIONAL REVIEW COMMITTEE. Purpose: Ensures that all hazards associated with teaching and research are identified, monitored, and controlled. Members: Don Braswell, Ed Griswold, Don Haynie, Terry McConathy, David Mills, Dale Snow, and Ron Thompson.

ELECTRONIC LEARNING COMMITTEE. Purpose: Direction and oversight for the University's utilization of electronic delivery opportunities for instruction. Members: David Cargill (Chair), Mike DiCarlo, Pamela Ford, Lawrence Leonard, Dennis Minor, James Nelson, Ray Newbold, Bob Vento, and Elizabeth Wibker.

ENROLLMENT MANAGEMENT COUNCIL Purpose: Monitors, evaluates, and makes recommendations on matters related to recruiting and retention of undergraduate students. Members: Pamela Ford (Chair), Jan Albritton, Dee Dee Anderson, Lisa Cole, Jim Dyer, Dan Erickson, Connie LaBorde, Dennis Minor, Robert Moran, James Nelson, Ray Newbold, Lori Theis, Mike Tolar, Bob Vento, Roger Vick, Dena Westerfield, Elizabeth Wibker, and a student representative. The RETENTION COMMITTEE is a subcommittee of ENROLLMENT MANAGEMENT COUNCIL. Additional Members: Margaret Alexander, Ron Cathey, Dickie Crawford, Mert Douglas, Joan Edinger, Ruth Ellen Hanna, Michelle Jimmerson, Lori Myers, Norm Pumphrey, and Martha Summers.

EQUIPMENT DONATIONS COMMITTEE. Purpose: Reviews all proposed equipment donations to any part of the University (including the Foundation). Members: Debbie Forney, Les Guice, Ed Jacobs, and Jim King.

FEE COMMITTEE. Purpose: Serves to review proposals regarding University fees and to make recommendations regarding fees to the President and the University of Louisiana System, as appropriate. Members: Vice President for Academic Affairs; Executive Vice President; Vice President for Student Affairs; Vice President for University Advancement; Vice President for Financial Services; Vice President for Research and Development; Vice President for Administrative Services; Vice Chairperson, University Senate; and SGA President.

FINANCIAL PLANNING TASK FORCE. Purpose: Advisory group to the President and to the Administrative and Planning Council on budget matters and budget priority funding. Members: President Reneau, Vice President Ken Rea, Vice President Jerry Drewett, Vice President Joe Thomas, Vice President Jim King, Vice President Corre Stegall, Vice President Terry McConathy, Vice President Les Guice, Dean Shirley Reagan, President of SGA, President of University Senate, and Mr. Kyle Edmiston.

GENERAL EDUCATION REQUIREMENTS COMMITTEE. Purpose: Assess the effectiveness of the General Education Requirements as mandated by the Board of Regents and to forward recommendations relative to Tech's General Education Requirements as appropriate. Members: Dennis Minor (Chair), Kimberly Kimbell-Lopez, Stan Napper, Ray Newbold, and Elizabeth Wibker.

GRADUATE COUNCIL. Purpose: Reviews and recommends proposals for graduate courses and curricula, and may initiate or consider recommendations concerning instructional policies of the Graduate School. Members: Terry McConathy (Chair), John Brewer, William Campbell, Marc Chopin, Rohan Christie-David, Dianne Douglas, Hisham Hegab, Alice Hunt, Dennis Minor, Larry Pace, Ramu Ramachandran, Peggy Schenk, Cathy Stockton, Bob Vento (ex-officio), and SGA Representative.

GRIEVANCE COMMITTEE. Purpose: Provides for an independent body to consider the grievances of faculty and other unclassified personnel. This committee is composed of nine selected/elected members and a chairperson appointed by the President. The Executive Committee of the University Senate shall select six members (one from each college) to serve on the University Grievance Committee. Each division (including Student Affairs, University Advancement, Academic Affairs and Administrative Affairs) shall elect one member each to serve on the University Grievance Committee. Only non-classified staff personnel may be elected to represent the divisions. Members: Joe Pullis (Chair), Dickie Crawford, Mike DiCarlo, Kenneth Griswold, Gary Hauser, James G. Johnston, William Jordan, Mary Margaret Livingston, E. J. Miller, and Sam Wallace.

HEALTH SCIENCE ADVISORY COMMITTEE. Purpose: Addresses collective issues relating to health care education and serves in an advisory capacity to the Vice President for Academic Affairs. Members: Associate Dean of Applied & Natural Sciences (Chair), Representatives of the Departments of Agricultural Sciences, Biological Sciences, Biomedical Engineering, Chemistry, Health and Physical Education, Health Information Management; Directors of programs in Nursing, Nutrition and Dietetics, and Speech-Language Pathology and Audiology.

HONORS PROGRAM COUNCIL. Purpose: Develops and governs the Honors Program in conjunction with the Director of the Honors Program. Members: Donald Kaczvinsky (Chair), Jan Albritton, Jan Colvin, William Deese, Edward Jacobs, Stephen Webre, Elizabeth Wibker, and Tony Young.

HUMAN USE COMMITTEE. Purpose: Ensures that the University follows the regulations for the protection of human research subjects as set forth by the Department of Health and Human Services. All research projects involving human subjects, both sponsored and non-sponsored projects, must be reviewed and approved by the Institutional Review Board for Use of Human Research Subjects before the research project is initiated as well as periodically during the conduct of the research project. Members: James Green (Chair), Bonnie Gerald, Les Guice, Paul Hale, Ned Head, Stephanie Herrmann, Mary Livingston, David Mills, Virginia Pennington, Thomas Phillips, and Deborah White.

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE. Purpose: Oversees the welfare of any animals used in experimental research, their care and facilities, as directed by the U. S. Department of Agriculture and the National Institutes of Health. Members: James Spaulding (Chair), William Green, Les Guice, Steven Jones, Dennis Minor, and Connie Nieto (one community representative).

INSTRUCTIONAL INNOVATION COMMITTEE. Purpose: Established in 1995 with the responsibility to enhance communications among faculty about campus instructional technology capabilities and about experimentation with instructional techniques and to schedule development programs to meet identified needs of the faculty. Members: Stephen Webre (Chair), David Cargill, Bill Deese, Mike DiCarlo, David Hall, Pam Milstead, Dennis Minor, Linda Ramsey, and Jeffrey Walczyk.

INSTRUCTIONAL POLICIES COMMITTEE. Purpose: Considers problems of college life in the areas of courses, curricula, and instruction in undergraduate studics. Also, serves as an instrument of control to avoid course duplication and proliferation. Members: Chairperson elected cach September. Two representatives from each academic college, one representative from the library and Barksdale, a student representative from the SGA, and the Registrar as an ex-officio member.

INSURANCE AND RELATED BENEFITS COMMITTEE. Purpose: Periodically reviews and makes recommendations to the President regarding new benefit programs and changes to existing plans in order to keep the University's fringe benefit program competitive. This Committee is designated as the plan administrator for the University's Cafeteria (Section 125) Plan. Members: Don Dyson (Chair), Dwight Anderson, Jerry Drewett, Ken Rea, Corre Stegall, and Joe Thomas.

INTELLECTUAL PROPERTY COMMITTEE. Purpose: Oversight of intellectual property, policies, and procedures for the University. Members: Tom Noble (Chair), Les Guice (ex officio), Corre Stegall (ex officio), William Campbell, Marc Chopin, Paul Hale, Lawrence Leonard, and Dennis Minor.

MUSEUM COMMITTEE. Purpose: Establishes policies and guidelines for the operation of the Museum. Aids the Director and Associate Director in obtaining artifacts for the Museum. Members: Wade Meade (Chair), Jonathan Donehoo, Sallie Rose Hollis, Joan Marie Edinger, Linda Reneau, and Gary Zumwalt.

OVERSIGHT COMMITTEE. Purpose: Identifies prospective grant opportunities, provides assistance in the development of joint proposals, provides final approval on all matters affecting jointly developed projects and to report to college administrators progress on all on-going joint projects between two or more colleges. Members: Dawn Basinger (Chair), Jenna Carpenter, Stephanie Herrmann, Dennis Minor, Joe Pullis, Linda Ramsey and Cathy Stockton.

PARKING AND TRAFFIC COMMITTEE. Purpose: Responsible for the establishment and annual review of the parking and traffic regulations as set forth in the University "Vehicle Regulations Manual." This committee is also charged with reviewing appeals, proposals, and recommendations submitted by members of the University community pertaining to parking and traffic concerns. Members: Vice President for Student Affairs or his designee (Chair), Chief of University Police, representative from the Physical Plant, one representative from each of the five academic colleges, two members of the Student Government Association appointed by the SGA President, and one student Housing Representative and a University Senate, representative.

PK-16+ COORDINATING COUNCIL. Purpose: To support the redesign of teacher education programs. University faculty, public school personnel, and community leaders work together on a number of initiatives designed to impact the recruitment, preparation, and retention of teachers for Louisiana. Members: Dawn Basinger (Coordinator), Glenn Beer, Sherman Brown, Jo Ann Dauzat, Sam Dauzat, Lloyd Elkins, Pamela Ford, Glenn Gleason, Melanie Gleason, Les Guice, David Gullatt, Edward Jacobs, Tina Kendrick, Connie LaBorde, James Liberatos, Frances Mason, Tim Nutt, Aleta Overby, Linda Ramsey, Kenneth Rea, Shirley Reagan, Daniel D. Reneau, Craig Roberson, Cathy Stockton, Ron Tangye, and Patti Trudell.

PREMEDICAL/PREDENTAL ADVISORY COMMITTEE. Purpose: Advises Premedical and Predental students, conducts personal interviews of applicants to medical and dental school and prepares recommendations for these applicants. Members: Larry Sellers (Chair), Ed Griswold, Don Kaczvinsky, David Mills, Stanley Napper, Paul Ramsey, Lee Sawyer, De'ane Sheehan, Dale Snow, and James Spaulding.

RESEARCH COUNCIL. Purpose: Coordinates the research activities of the University, strengthens interdisciplinary and inter-institutional research, serves as a vehicle for discussion of problems involving the administration of research projects and grants, recommends to the University administration policies concerning research and other sponsored programs, and fosters, stimulates, and advances the research effort of the University. Members: Les Guice (Chair), Susan Black, William Campbell, Marc Chopin, Mike DiCarlo, Stephanie Hermann (non-voting), Dennis Minor, Stan Napper, Theresa Parker (non-voting member), Bonita Smith, Cathy Stockton, and SGA representative.

SPACE UTILIZATION COMMITTEE. Purpose: Ensures that all campus space is usable by all members of the campus community who can justify its use in total consideration of the nature of the space. Members: Vice President for Academic Affairs, Vice President for Administrative Affairs, and Vice President for Student Affairs.

STUDENT ORGANIZATIONS COMMITTEE. Purpose: Serves as the governing committee for all matters involving student organizations. Members: Director of Student Development (Chair), Faculty/Staff member appointed by the Vice President for Student Affairs, Faculty Senatc Representative, Interfraternity Council President, Panhellenic President, Student Government Association President, University Staff Member appointed by the Vice President for Student Affairs, Chief of University Police, IFC Advisor, Panhellenic Advisor, Director of Multicultural Affairs, and Union Board President.

STRATEGIC PLANNING COMMITTEE. Members: Terry McConathy (Chair), DeeDee Anderson, Lisa Cole, Jo Ann Dauzat, William Fellows, Pamela Ford, Leslie Guice, Andy Halbrook, Edward Jacobs, William Jordan, James Liberatos, Shirley Reagan, SGA President, University Senate President, Bob Vento, Julie Wilkerson.

STUDENT SELF-ASSESSED FEES OVERSIGHT COMMITTEE. Purpose: Monitors and evaluates the need for student self-assessed fees. Members: One student representing the SGA, one student representing the Union Board, one student representing KLPI, one student representing Multicultural Affairs, one graduate student representing Housing Operations, two faculty members appointed by the President, one staff person representing the Vice President for Financial Services/Comptroller, two staff persons representing the Vice President for Student Affairs, two ex-officio members, and Chief Business Affairs officer and Chief Student Affairs officer.

STUDENT TECHNOLOGY FEE BOARD. Purpose: Serves as the final recommending body for expenditures from the Student Technology Fee. Members: President Daniel D. Rencau (Chair), SGA President, SGA Vice-President, SGA Member-at-Large, Senior Class President, Junior Class President, Sophomore Class President, Freshman Class President, Mel Corley, Jim King (ex-officio), Terry McConathy, Joe Thomas, and Roy Waters.

UNIVERSITY ASSESSMENT COMMITTEE. Purpose: To review unit reports and develop a summary report and feedback for the Administrative Planning Council. Members: Terry McConathy (Chair), DeeDee Anderson, Marc Chopin, Bill Fellows, Pamela Ford, James Liberatos, Dennis Minor, James Nelson, Cathy Stockton, Lori Theis, Sam Wallace, and Student Representative.

UNIVERSITY CATALOG COMMITTEE. Purpose: Charged with the responsibility to review the catalog to insure accuracy of approved policies and procedures prior to printing. Members: Bob Vento (Chair), Jan Albritton, Margaret Alexander, Dee Dee Anderson, Kate Archer, Bill Campbell, Marc Chopin, Lisa Cole, Pameta Ford, Gary Hauser, Connie LaBorde, Dennis Minor, Jim Nelson, Ray Newbold, Ramu Ramachandran, Marilyn Robinson, Cathy Stockton, Student Representative, Lori Theis, Roger Vick, and Elizabeth Wibker.

UNIVERSITY COMPUTING POLICY AND PLANNING COUNCIL. Purpose: Makes final decisions concerning the allocation of computer related resources for the University. Members: Dan Reneau (Chair), Jerry Drewett, Les Guice, Jim King, Terry McConathy, Ken Rea, and Joe Thomas.

UNIVERSITY HEALTH COUNCIL. Purpose: Coordinates efforts of University personnel in affecting student and staff decision making in the areas of health concerns. Specifically, the Council implements strategies for integration of health services information; assesses and recommends, where appropriate educational programming; and attempts to identify information generated by faculty and staff on health issues. Members: A representative is appointed from each of the academic colleges, the department/schools of Health and Physical Education, Nursing, Athletics, Health Center, Food Services, Residential Life, and Personnel and Student Services. Two student representatives also serve on the Council.

UNIVERSITY LIBRARY ADVISORY COMMITTEE. Purpose: Studies library needs in view of the academic program and advises the Director of Libraries on matters of general library policy, the development of library resources, and upon means which may integrate the library program with other academic activities of the University. The Committee serves as a liaison group between the faculty and the Library. Members: Daphne Jewell, Robert Jungman, Anthony Jurkus, Mike Luehlfing, Dennis Minor, Mary Murimi, John Pescatore, Jonathan Schwarz, Upali Siriwardane, Cathy Stockton, Donna Vavrek, Walter Wicker, and one undergraduate student.

UNIVERSITY SAFETY COMMITTEE. Purpose: Reviews and recommends the adoption of University safety standards. The Committee works through safety representatives to inform departments of new procedures and to assist in the implementation of safety regulations. Members: Environmental Safety Officer (Chair), Director of Nuclear Center, Director of Physical Plant, Director of Personnel, Department Head of Department of Chemistry, Department Head of Department of Biological Sciences, Director of University Housing, Chief of University Police, and Head of Division of Nursing.

UNIVERSITY SENATE. Purpose: Promotes the general welfare of the University; discusses and expresses views on matters of general concern to the faculty; effectively communicates between the faculty and the administration; initiates policy proposals; makes recommendations on policy proposals submitted to it by the administrative officials of the University; and requests, through appropriate channels, from the administrative officials of the University, information which might influence policies and recommendations of the Senate. Members: The membership includes elected representatives from the Faculty who are employed full time and professional personnel engaged in Specialized Academic Services. Members shall serve for a term of three years.

UNIVERSITY SEXUAL HARASSMENT COMMITTEE. Purpose: Hears and considers testimony and other relevant evidence to make findings of fact, to determine whether the University's policy on sexual harassment has been violated, and if so to recommend appropriate relief and disciplinary action(s). Members: James M. King (Chair), Connie Acklin, John Adams, Dwight Anderson, Carrie Kelly, Stan Napper, Virginia Riser, Devery Roland, Carole Tabor, and Susan Rasbury (ex officio).

UNIVERSITY TENURED FACULTY COMMITTEE. Purpose: Provides due process in cases involving action taken by the University which could result in the discharge, termination of contract, or demotion in rank of a tenured faculty member. Members: Peter Jones (Chair), Jenna Carpenter, Phillip Cook, Tony Inman, Linda Sivils, Jerome Tobacyk, University Senate President, and University Senate Vice President.

UNIVERSITY TOUR COMMITTEE. Purpose: Ensures that any tour recommended by the University falls within the mission of the University, that is, teaching, research and public service. Members: Ed Jacobs (Chair), Jerry Drewett, Ronnie Wiggins, and Student Government Association President.

UNIVERSITY WEB COMMITTEE. Purpose: Provides guidelines for the maintenance of the Louisiana Tech web site and makes web-related technology recommendations. Members: Dena Westerfield (Chair), Margaret Alexander, Kate Archer, Aimee Baxter, Donnie Bell, Eddie Blick, Neal Breeding, Donny Crowe, David Deal, Mike DiCarlo, Brad Dufour, Dan Erickson, Pamela Ford, Bryan Fuller, Ray Newbold, Lori McIntosh, Gene Murphy, Sandi Nicklaus, Marilyn Robinson, Danny Schales, Linda Sivils, Sam Speed, John Swart, Sam Wallace, and Billy Wilkinson. http://latech.edu/web-committee/.

PART VI University Faculty and Administrators Board of Regents Support Fund Endowed Faculty

Louisiana Board of Regents Support Fund Endowed Chairs

The goal of the Endowed Chairs Program is to assist colleges and universities primarily in attracting but also in retaining eminent scholars who will contribute significantly to the enhancement of the overall infrastructure of higher education in Louisiana. This Program is highly leveraged by its requirement of a three-to-one private-sector match: at least \$600,000 in private-sector funds is a prerequisite to receiving Support Fund matching funds of \$400,000, maximum. Louisiana Tech has received donor gifts and matching funds from the Board of Regents Support Fund to establish nine \$1 million endowed chairs. Faculty appointed as endowed chairs must have a national/international reputation in the discipline, a record of prominent leadership roles in the profession, outstanding publication record, a record of external research or recognition for innovation in teaching and development of grants and awards; and/or an acclaimed performance and creative portfolio, as appropriate to the chair. The Board of Regents Support Fund Eminent Scholar Chairs and current faculty recipients listed in order of establishment arc as follows:

T. L. James Eminent Scholar Chair – Civil Engineering – Dr. Freddy Roberts Pipes Eminent Scholar Chair – Mechanical Engineering Harold J. Smolinski Eminent Scholar Chair – Accounting – Dr. Ted D. Englebrecht Elva J. Mann Eminent Scholar Chair – Human Ecology – Dr. Alice Hunt F. J. Taylor Eminent Scholar Chair – Journalism – Dr. Reginald Owens Eminent Scholar Chair in Construction – Dr. Raymond Sterling Max P. & Robbie L. Watson Eminent Scholar Chair – Biomedical Engineering – Dr. Charles Robinson George E. Pankey Chair – English McCallister Chair in Computer Information Systems & Analysis

Louisiana Board of Regents Support Fund Endowed Professorships

Endowed Professorships are established for the purpose of providing an annual funding source to enhance program and faculty development. Holders of the professorships should be of such quality and professional stature as to provide excellence in program leadership and bring national and international recognition to the University. Louisiana Tech has received donor gifts and matching funds from the Board of Regents Support Fund to establish more than 99 endowed professorships. The Board of Regents Support Fund Endowed Professorships and current faculty recipients listed in order of establishment are as follows:

W. W. Chew Endowed Professorship in the College of Engineering & Science - Dr. Ronald Thompson Maurice B. Tatum Endowed Professorship in the College of Administration & Business - Dr. Mark Kroll Sue Woodard Huckaby Endowed Professorship in Human Ecology William Y. Thompson Endowed Professorship in History - Dr. Abraham Attrep Agriculture Endowed Professorship in the Department of Agricultural Sciences Frank W. Merritt Endowed Professorship in Forestry College of Education Endowed Professorship Mabel and Doug McGuire Endowed Professorship in English - Dr. Robert Jungman George K. Anding Endowed Professor in English - Dr. Dennis Minor Century Telephone Endowed Professorship in the College of Engineering & Science - Dr. Melvin Corley Merle L. & Virginia M. Borchelt Endowed Professorship in Human Ecology Mildred Trussell McGehee Endowed Professorship in Early Childhood Education Ruston Building & Loan Endowed Professorship in the College of Administration & Business - Dr. Ray Anthony Inman Ruston State Bank Endowed Professorship in the College of Administration & Business - Dr. Joe M. Pullis Franciscan Sisters of St. Francis Medical Center Endowed Professorship in Nursing Edward L. Moyers Endowed Professorship in the College of Administration & Business Thomas Jackson "Jack" Magee, Jr. & Mary Jo Cuningham Magee Ross Endowed Professorship James F. Naylor, Jr. Endowed Professorship in the College of Engincering & Science Premier Bank Endowed Professorship in the College of Administration & Business - Dr. Ali Darrat Clarece Harp Lyles Endowed Professorship in Ceramic Arts - Mary Louise Carter Bank One Professorship in the College of Administration and Business Entergy #1 Endowed Professorship in Electrical Engineering - Dr. Kody Varabramyan Entergy #2 Endowed Professorship in Electrical Engineering Entergy #3 Endowed Professorship in Electrical Engineering - Dr. Li-He Zou Marvin T. Green Endowed Professorship in Premedicine SWEPCO Endowed Professorship in Engineering - Dr. Richard Greechie Maxfield Endowed Professorship in Mathematics & Statistics - Dr. Raja Nassar State Farm Endowed Professorship in the College of Administration & Business - Dr. Hani Mesak Century Telephone Enterprises, Inc./Clark M. Williams Memorial Endowed Professorship in the College of Administration & Business - Dr. Otis Gilley Scott Weathersby Endowed Professorship in Zoology/Premedicine Entergy #4 Endowed Professorship in Electrical Engineering Mildred Saunders Adams Endowed Professorship in English - Dr. Donald Kaczvinsky

Upchurch Endowed Professorship in the College of Engineering & Science - Dr. Bill Elmore Robert Howson Endowed Professorship in Civil Engineering John J. Cordaro/Entergy #5 Endowed Professorship in Electrical Engineering Robbie Auger Watson Endowed Professorship in Human Ecology #1 -- Dr. Duane Dowd Elva Leggett Smith Endowed Professorship in Education - Dr. Walter Buboltz **Charles Emmett Leggett Professorship in Agriculture** James Alvey Smith Endowed Professorship in Music & Performing Arts - Dr. Jon Barker Linnie McGee Leggett Endowed Professorship in Agriculture Lincoln General-Glenwood Endowed Professorship in Nursing Max P. Watson, Jr. Endowed Professorship #1 in the College of Administration & Business Max P. Watson, Jr. Endowed Professorship #2 in the College of Administration & Business Max P. Watson, Jr. Endowed Professorship #3 in the College of Administration & Business Max Watson, Sr. Endowed Professorship in Mechanical Engineering - Dr. William Jordan Robbie Auger Watson Endowed Professorship in Human Ecology #2 Robbie Auger Watson Endowed Professorship in Human Ecology #3 James Emmett Smith Endowed Professorship in Mechanical Engineering - Dr. Jun-Ing Ker Charles & Nelwyn Spruell Endowed Professorship in Engineering - Dr. Gary Zumwalt John J. Cordaro/Entergy LP&L/NOPSI Professorship #6 - Dr. Kody Varahramyan McDermott International Endowed Professorship in the College of Engineering & Science - Dr. James Nelson The BellSouth Endowed Professorship in Electrical Engineering Balsley-Whitmore Endowed Professorship in the College of Administration & Business #1 JPJ Investments Endowed Professorship in Financial Planning – Dr. Dwight Anderson Robert C. Snyder English Endowed Professorship Lallage Wall Endowed Professorship in Performing Arts - Cherrie Sciro Hyman J. Sachs English Professorship - Dr. Patrick Garrett Wayne & Juanita Spinks Professorship in Engineering #1 - Dr. Steve Jones Wayne & Juanita Spinks Professorship in Engineering #2 - Dr. Lee Sawyer Balsley-Whitmore Endowed Professorship in the College of Administration & Business #2 Bank One Endowed Professorship in Education - Dr. Lawrence Leonard Cunningham Interior Design Professorship Edmondson/Crump Endowed Professorship in Engineering Frank Earl Hogan Endowed Professorship in Engineering Dr. Walter Koss Professorship in Math - Dr. Ruth Ellen Hanna Charlotte Lewis Professorship in English Dr. Harvye Lewis Professorship in Human Ecology KPMG Endowed Professorship in Business - Dr. Thomas Phillips Joe D. Waggonner Professorship in Political Science - Dr. Jason Pigg Wayne A. & Juanita Spinks Endowed Professorship #3 in the College of Engineering & Science Joe D. Waggonner Professorship in the College of Engineering & Science - Dr. L. Dale Snow Charlyne Smith Wyche Professorship in English John D. Winters Endowed Professorship in History Burton Risinger #1 Endowed Professorship in CAB Burton Risinger #2 Endowed Professorship in CAB Chester Ellis Professorship in Education Contractors Trust Professorship in Engincering James R. Mays Professorship in Education Melvin McCann Professorship in Education Mike McCallister #1 Endowed Professorship in Accounting Mike McCallister #1 Endowed Professorship in Economics & Finance Mike McCallister #1 Endowed Professorship in Management & Marketing Mike McCallister #2 Endowed Professorship in Accounting Mike McCallister #2 Endowed Professorship in Economics & Finance Mike McCallister #2 Endowed Professorship in Management & Marketing Morelle Emmons Professorship in Education T. W. Ray Johnson Professorship in Chemistry Thurman Lauret Professorship in Engineering W. W. Chew #2 Professorship in Engineering Herbert H. McElveen Professorship in Education Herbert H. McElveen Professorship in Liberal Arts John & Virgie Shealy Professorship in Forestry Thomas C. & Nelda M. Jeffrey Professorship in Chemical Engineering Jack & Peggy Byrd Professorship in the College of Administration & Business Virgil Orr Professorship in Chemical Engineering Elva Leggett Smith Professorship in Liberal Arts Hazel Stewart Garner Endowed Professorship in Chemistry George E. Breazea) Family Professorship in Accounting Thelma Shipp Stewart Endowed Professorship in Chemistry

University Faculty Emeriti

F. Jay Taylor, President Emeritus Louisiana Tech University

Virgil Orr, Vice President Emeritus Academic Affairs

E. S. Foster, Vice President Emeritus Student Affairs

George W. Byrnside, Vice President Emeritus Administrative Affairs

Jerry W. Andrews, Dean Emeritus College of Education

Hal B. Barker, Dean Emeritus College of Life Sciences

Elenora A. Cawthon, Dean Emerita Student Affairs

B. J. Collinsworth, Dean Emeritus College of Education

Jeanne M. Gilley, Dean Emerita College of Human Ecology

John E. Maxfield, Dean Emeritus Graduate School

Agnes C. Miller, Dean Emerita College of Human Ecology

Bob R. Owens, Dean Emeritus College of Administration and Business

Paul J. Pennington, Dean Emeritus College of Arts and Sciences

Jack Thigpen, Dean Emeritus College of Engineering

Nancy M. Tołman, Associate Dean & Professor Emerita College of Applied and Natural Sciences

Phoebe Allen, Professor Emerita College of Liberal Arts

Billy J. Attebery, Professor Emeritus College of Arts and Sciences

Randall Franklin Barron, Professor Emeritus College of Engineering

Robert Mack Caruthers, Professor Emeritus College of Engineering

Marion Earl Council, Professor Emeritus College of Engineering and Science

David H. Cowling, Professor Emeritus College of Engineering and Science

Samuel V. Dauzat, Professor Emeritus College of Education

Billy J. Davis, Professor Emeritus College of Life Sciences Lou H. Davison, Professor Emerita College of Applied and Natural Sciences

Richard L. Gibbs, Professor Emeritus College of Engineering and Science

B. H. Gilley, Professor Emeritus College of Arts and Sciences

Leo A. Herrmann, Professor Emeritus College of Engineering

Milton R. Johnson, Jr., Professor Emeritus College of Engineering

James D. Lowther, Professor Emeritus College of Engineering and Science

James Malone, Professor Emeritus College of Engineering

Margaret W. Maxfield, Professor Emerita College of Arts and Sciences

Robert W. McLeane, Professor Emeritus College of Engineering

James Robert Michael, Professor Emeritus College of Administration and Business

Patterson B. Moseley, Professor Emeritus College of Arts and Sciences

Jack T. Painter, Professor Emeritus College of Engineering

Virginia R. Pennington, Professor Emerita College of Applied and Natural Sciences

Edwin S. Pinkston, Professor Emeritus College of Liberal Arts

Bobby E. Price, Professor Emeritus College of Engineering and Science

John K. Price, Professor Emeritus College of Liberal Arts

Edmund N. Roots, Jr., Professor Emeritus College of Engineering and Science

Robert C. Snyder, Professor Emeritus College of Arts and Sciences

Joseph W. Strother, Professor Emeritus College of Liberal Arts

Billy Jack Talton, Professor Emeritus College of Education

Carolyn F. Talton. Professor Emerita College of Education

William Y. Thompson, Professor Emeritus College of Arts and Sciences

Joe R. Wilson, Professor Emeritus College of Engineering

University Honors Program Faculty

Bisping, Timothy R. - Assistant Professor, Economics & Finance - BBA, MA, Wichita State Univ.; PhD, Oklahoma State Univ. (2000). 2003-2006

Douglas, Dianne - Professor, Foreign Languages - BA, Monmouth College, MA, PhD, Univ. of Oklahoma (1979); Graduate Faculty. 2003-2006

Goldspiel, Alan – Associate Professor, Music - BM, DMA, The Hartt School, University of Harford; MM, Yale University School of Music (1995). Graduate Faculty. 2003-2006

Guinn, Mark - Associate Professor, Theatre - BA, Centre College of Kentucky; MFA, Memphis State University (1991); Graduate Faculty. 2003-2006

Jacobs, Karen L. - Assistant Professor, English - BA, Augustana College; MA, PhD, Auburn University (1989); Graduate Faculty. 2003-2006

Jungman, Robert E. - Professor, English - BA, Washington and Lee; MA, PhD, Florida State University (1972); Graduate Faculty. 2003-2006

Kaczvinsky, Donald P. – Director, Honors Program; Professor, English; Adams Endowed Professor of English - BA, Providence College; MA, University of Virginia; PhD, Penn State University (1990); Graduate Faculty. 2003-2006

Magee, Bruce R. - Assistant Professor, Foreign Languages and English - BA, Louisiana Tech University; MDiv, ThD, New Orleans Baptist Theological Seminary; PhD, Louisiana State University (1998); Graduate Faculty. 2003-2006

Maggio, Beverly - Instructor, Health and Exercise Sciences - BS, MS, Southern University (1983). 2003-2006

Merritt, Kevin - Instructor, Speech - BA, Western Washington University; MA, Oklahoma State University (1997). 2001-2004

Minor, Dennis E. – Professor, English and Associate Dean, Graduate Studies & Research, College of Liberal Arts; George K. Anding Endowed Professorship - BA, MA, PhD, Texas A&M University (1978); Graduate Faculty. 2001-2004; Webpage

Patron, Hilde - Assistant Professor, Economics & Finance - BA, MA, Universidad de los Andes; PhD, Michigan State Univ. (2002). 2003-2006

Pigg, Jason - Assistant Professor, Social Sciences - BS, University of Iowa; PhD, The Ohio State University (2000). 2003-2006

Obernuefemann, Kelly - Assistant Professor, History - BA, Southern Illinois University, Edwardsville; MA, University of Charleston/The Citadel; PhD, George Washington University (2001). 2002-2005

Rudnicki, Robert W. - Assistant Professor, English - BA, Centenary College; MA, PhD, Texas A&M (2000); Graduate Faculty. 2001-2004; Webpage

Sciro, Cherrie - Associate Professor, Speech/Theatre; Coordinator of Theatre - BA, MFA, Louisiana Tech University (1992); Graduate Faculty. 2003-2006

Spaulding, James G. - Professor, Biological Sciences/Environmental Science - BA, Kalamazoo College; PhD, University of Wisconsin (1980). 2003-2006

Stokley, Gary M. - Associate Professor, Social Sciences - BA, East Texas Baptist College; MA, Stephen F. Austin; PhD, Louisiana State University (1971). 2003-2006

Tabor, Carole S. - Professor, English - BA, Louisiana Polytechnic Institute; MA, PhD, Texas Christian University (1968); Graduate Faculty. 2003-2006

Walczyk, Jeffrey J. - Associate Professor, Psychology & Behavioral Sciences - BS, Le Moyne College; MA, PhD, Syracuse University (1996); Graduate Faculty. 2002-2005

Zalesch, Saul – Associate Professor, Art – BA, Johns Hopkins University; MA, PhD, University of Delaware; JD, University of Maryland Law School (1994); Graduate Faculty. 2003-2006

Zumwait, Gary S. - Associate Professor, Geosciences - BA, Fresno State College; MS, PhD, University of California (1980); Graduate Faculty. 2002-2005

University Faculty

Ackerman, Sandra G.; Clinical Professor, Medical Technology – BS, Univ. of Arkansas School of Medicine; MEd, Univ. of Arkansas-Little Rock (2000) Adams, John Clyde; Professor, School of Forestry - BSF, MS, PhD, Louisiana State Univ. (1976) Graduate Faculty

Al-Agha, Khaled; Instructor, Mathematics and Statistics – BS, Assiout Univ., MS, PhD, Kansas State Univ. (2000)

Albritton, Lou Ann; Instructor, Health and Exercise Sciences - BS, MS, Louisiana Tech Univ. (1965)

Aldredge, Melissa; Acting Instructor, Professional Accountancy - BS, Mississippi State Univ.; MBA, Louisiana Tech Univ. (2003)

Alexander, A. Edwin.; Assistant Professor, Computer Science - BS, MS, Univ. of Southern Mississippi; PhD, Univ. of Southwestern Louisiana. (1997) Graduate Faculty

Alexander, Joe L.; Assistant Professor of Music - BA, East Carolina Univ.; MM, James Madison Univ.; DMA, Univ. of North Texas (2001)

Alford, Bruce L.; Associate Professor, Management and Marketing - BS, Univ. of West Florida, PhD, Louisiana State Univ. (2001) Graduate Faculty

Allouche, Erez; Assistant Professor, Civil Engineering/TTC – BS, MS, Queen's Univ.; PhD, Univ. of Alberta, P.E. (2003) Graduate Faculty

Amyx, Douglas A.; Assistant Professor, Management and Marketing – BA, Univ. of Oklahoma; MBA, Univ. of Texas-Arlington; PhD, Oklahoma State Univ. (2000) Graduate Faculty

Anderson, Dale; Associate Professor, Mechanical Engineering - BS, ME, PhD, Brigham Young Univ. (1984) Graduate Faculty

Anderson, David M.; Assistant Professor, History - BA, MA, Univ. of Nevada at Las Vegas; PhD, Univ. of North Carolina (2003) Graduate Faculty

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