1988

LSU General Catalog 1988-1989

Louisiana State University and Agricultural and Mechanical College

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This General Catalog represents a flexible program of the current educational plans, offerings, and requirements which may be altered from time to time to carry out the purposes and objectives of the University. The provisions of this publication do not constitute an offer for a contract which may be accepted by students through registration and enrollment in the University. The University reserves the right to change any provision, offering, or requirement at any time within the student’s period of study at the University. The University further reserves the right to require a student to withdraw from the University for cause at any time.

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# Academic Calendar, 1988-89

## FALL SEMESTER

### August

- **21** Residence halls open*
- **23** Orientation for new freshmen, transfer and international students
- **24-26** Registration
- **29** Classes begin

### September

- **5** Labor Day holiday
- **6** Final date for adding courses for credit, making section changes and turning in registration packets
- **16** Final date for dropping courses without receiving a grade of "W"

### October

- **17-21** Midsemester examination period
- **25** Midsemester grades due in Office of Student Records and Registration
- **31** Registration for spring semester begins

### November

- **11** Final date for resigning from the University and/or dropping courses (last date for receiving a grade of "W")
- **24-25** Thanksgiving holiday

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*Closing dates for residence halls will be announced when the final examination schedule is issued.*
December

5-9 Dead week—no meetings, social activities, athletic events, or other extracurricular activities which require student participation will be scheduled

9 Classes end

12-20 Final examination period

22 Fall commencement, 9:30 a.m.

SPRING SEMESTER

January

Residence halls open*

Orientation for new freshmen, transfer and international students

January 1989

Registration

January 1989

Classes begin

January 1989

Half-day holiday - Martin Luther King's birthday - begins 12:30 p.m.

January 1989

Final date for adding courses for credit, making section changes and turning in registration packets

February

Final date for dropping courses without receiving a grade of "W"

February 1989

Mardi Gras holiday - Classes resume 12:30 p.m. on February 8

March

Midsemester examination period

March 1989

Midsemester grades due in Office of Student Records and Registration

March 1989

Spring vacation

March 1989

Classes resume 7:30 a.m.

March 1989

Final date for resigning from the University and/or dropping courses (last date for receiving a grade of "W")

April

Registration for summer term and fall semester

April 1989

May

Dead week—no meetings, social activities, athletic events, or other extracurricular activities which require student participation will be scheduled

May 1989

Classes end

May 1989

Final examination period

May 1989

Spring commencement, 9:30 a.m.

*Closing dates for residence halls will be announced when the final examination schedule is issued.
**SUMMER TERM**

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**June, 1989**

- 4 June: Residence halls open*
- 5 June: Orientation for new freshmen, transfer and international students
- 6-7 June: Registration
- 8 June: Classes begin
- 12 June: Final date for adding courses for credit, making section changes, and turning in registration packets
- 16 June: Final date for dropping courses without receiving a grade of "W"
- 28-30 June: Midterm examination period

**July**

- 4 July: Independence Day holiday
- 6 July: Midterm grades due in Office of Student Records and Registration
- 14 July: Final date for resigning from the University and/or dropping courses (last date to receive a grade of "W")
- 27 July: Classes end
- 28-31 July: Final examination period

**August**

- 3 August: Summer commencement, 9:30 a.m.

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**Tentative Academic Calendar, 1989-90**

**FALL SEMESTER, 1989**

- Orientation for new students: August 22
- Registration: August 23-25
- Classes begin: August 28
- Holiday (Labor Day): September 4
- Holiday (Thanksgiving): November 23-24
- Classes end: December 8
- Final examination period: December 11-19
- Fall commencement, 9:30 a.m.: December 21

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*Closing dates for residence halls will be announced when the final examination schedule is issued.*
SPRING SEMESTER, 1990

Orientation for new students.............................................................. January 9
Registration .................................................................................. January 10-12
Classes begin .................................................................................... January 15
Observance of M. L. King Day begins, 12:30 p.m. ......................... January 15
Mardi Gras Holiday (classes resume 12:30 p.m. on 2/28). ............... February 26-28
Spring Break .................................................................................... April 9-16
Classes end ....................................................................................... May 7
Final examination period ..................................................................... May 8-16
Spring commencement, 9:30 a.m. ....................................................... May 18

SUMMER TERM, 1990

Orientation for new students.............................................................. June 4
Registration ..................................................................................... June 5-6
Classes begin ..................................................................................... June 7
Holiday (Independence Day) ............................................................. July 4
Classes end ....................................................................................... July 27
Final examination period ................................................................. July 28-31
Summer commencement, 9:30 a.m. ................................................... August 2
Glossary

Academic Load: The total number of semester hours for which a student is registered in one semester or summer term.

Academic Year: The period comprised of fall and spring semesters.

Advanced Standing: A procedure by which a student not formally enrolled in a course may receive credit for the course by passing an examination.

Approved Elective: Elective which is not open to the free choice of the student.

Audit: To enroll in a course for no credit.

Colleges and Schools: The academic units of the University, administered by deans or directors and staffed by faculty members, which offer the University’s academic programs. The type of training and the degree anticipated determine the student’s choice of school or college.

Concentration: An intensive study of a subject within the major field of study.

Corequisite: A concurrent requirement; usually a course or some other condition which must be taken at the same time as another course.

Credit: (1) The recognition awarded for the successful completion of course work—credits are based on the number of times a course meets in one week during a regular semester; (2) the quantitative measure of recognition given to a course stated in semester hours.

Cumulative or Overall Average: A student’s grade-point average based on the total number of quality points earned and the total number of semester hours attempted.

Curriculum: A program of courses comprising the formal requirements for a degree in a particular field of study.

Departments: The academic units of the University within colleges or schools; administered by heads or chairmen.

Elective: Course chosen by the student, as opposed to required course. The term “elective,” without a qualifier, will be understood to be a free elective, chosen by the student at his or her option from all the courses offered by the University for degree credit, with due regard for prerequisites.
Equivalent: When used in a course prerequisite (e.g., "Prereq: SOCL 2001 or equivalent"), this term means either credit in a comparable course or adequate preparation by other experience. Determination of equivalency is left to the discretion of individual departments.

Good Standing: The typical status of a student who is not on probation and is eligible to continue in or return to the University.

Grade-point Average (gpa): A measure of scholastic performance; the ratio of quality points earned to semester hours attempted.

Junior Division: Division in which all freshman students enroll. The freshman year in Junior Division and the following three years in one of the senior colleges represent the normal time required for completion of a baccalaureate degree program.

Major: The major field of study; students will take the majority of their required courses in this area.

Matriculation: The state of being registered for credit and working toward a specific degree.

Minor: The student’s field of secondary academic emphasis.

Nonmatriculated: The state of being registered for credit but not working toward a specific degree. Both graduate and undergraduate students may register as "nonmatriculated."

Preprofessional Program: A nondegree program of study in preparation for entry into a professional degree program at another institution or another division of the University; normally takes from one to three years to complete.

Prerequisite: The preliminary requirement, usually credit in another course, that must be met before a course can be taken.

Quality Point: Numerical value assigned to each letter grade from "A" to "F," when given as the final grade in a course; provides a basis for quantitative determination of a grade-point average. At LSU, "A" = 4, "B" = 3, "C" = 2, and "D" = 1 quality point.

Registration: The process by which a duly admitted student, upon payment of required fees, is enrolled in classes.

ROTC: The Reserve Officers Training Corps program.

Semester Hour: The unit by which course work is measured. The number of semester hours assigned to a course is usually determined by the number of hours the class meets per week.

Senior College: A college or school which establishes requirements for an undergraduate degree.

Student Schedule: The courses in which a student is enrolled.

Transfer Student: A student who terminates enrollment in one college or university and subsequently enrolls in this University.
Organization Chart

LSU AGRICULTURAL CENTER
CHANCELLOR

RESEARCH
VICE-CHANCELLOR
Director, LAES

ADMINISTRATION
VICE-CHANCELLOR
Director, International Programs

EXTENSION
VICE-CHANCELLOR
Director, LCES

ACADEMIC AFFAIRS
PROVOST

ASSOCIATE VICE-CHANCELLOR

DIVISION OF
ACADEMIC SERVICES
DEAN

- Admissions
- Student Ad & Scholarships
- Student Records & Registration
- Measurement & Evaluation Center

LSU LIBRARY
DIRECTOR

LSU PRESS
DIRECTOR

Office of Academic Development
Academic Center for Athletes

COLLEGE OF AGRICULTURE
DEAN

SCHOOLS OF
- Forestry, Wildlife, & Fisheries
- Home Economics
- Vocational Education & Technology

DEPARTMENTS OF
- Agricultural Economics & Agribusiness
- Agricultural Engineering
- Agronomy
- Animal Science
- Dairy Science
- Entomology
- Experimental Statistics
- Food Science
- Horticulture
- Plant Physiology and Crop Physiology
- Poultry Science,

COLLEGE OF ARTS & SCIENCES
DEAN

SCHOOL OF
- Journalism (Manship)

DEPARTMENTS OF
- Aerospace Studies
- English
- French & Italian
- Foreign Languages & Literatures
- Geography & Anthropology
- History
- Linguistics (Program)
- Mathematics
- Military Science
- Philosophy
- Political Science
- Psychology
- Psychological Services Center
- Sociology
- Speech Communication, Theatre, & Communication Disorders
- Division of Honors Inter-disciplinary Studies

COLLEGE OF BASIC SCIENCES
DEAN

SCHOOL OF
- Geoscience
- Basin Research Institute
- Coastal Studies Institute
- Department of Geology and Geophysics

DEPARTMENTS OF
- Biochemistry
- Botany
- Chemistry
- Computer Science
- Microbiology
- Physics & Astronomy
- Zoology & Physiology
- Biodynamics Institute

COLLEGE OF ENGINEERING
DEAN

DEPARTMENTS OF
- Agricultural Engineering
- Chemical Engineering
- Civil Engineering
- Electrical & Computer Engineering
- Industrial Engineering
- Mechanical Engineering
- Petroleum Engineering
- Division of Engineering Research
- Hazardous Waste Research Center
- Louisiana Water Resources Research Institute
- Remote Sensing & Image Processing Laboratory

BUSINESS AFFAIRS
VICE-CHANCELLOR

ASSOCIATE VICE-CHANCELLOR
Accounting Services
Purchasing
Treasurer
Assembly Center

ASSISTANT VICE-CHANCELLOR
Auxiliary Services
- Golf Course
- Graphic Services
- Residence Food Service
- Laundry Services

ASSISTANT VICE-CHANCELLOR
Budget and Planning
ASSISTANT COMPTROLLER
Grants and Contracts
Internal Auditing
Personnel Services
Compensation, Affirmative Action & EEO
Physical Plant

Director, EXTENSION

Director, ADMINISTRATION

Director, BUSINESS AFFAIRS
The University

Louisiana State University and Agricultural and Mechanical College—the oldest and largest institution in the LSU System—exerts a major influence on the economic, social, and cultural life of the state through an extensive, multipurpose program encompassing instruction, research, and service.

The purpose of Louisiana State University* is to provide for Louisiana a comprehensive university wherein teaching, research, and service are of the highest quality. This purpose embodies two critical elements—comprehensiveness and preeminence.

LSU has been designated by the Louisiana Board of Regents as the state’s only comprehensive university. This comprehensiveness is recognized nationally by LSU’s classification as a Research I University (in the Carnegie Commission taxonomy) and by its unusual status as one of only seventeen universities in the country designated as both a land grant and sea grant institution. Its instructional programs include approximately 250 curricula eventuating in both undergraduate and graduate/professional degrees. In the agricultural disciplines, the University’s instructional effort is articulated with the noninstructional specialized missions of the LSU Agricultural Center through more than 200 joint faculty appointments and funding and research opportunities for graduate students with the Louisiana Agricultural Experiment Station. In addition to those degree programs offered on its own campus, LSU maintains resident centers at System campuses in Alexandria and Eunice.

Preeminence, the second element of LSU’s purpose, was promulgated by the Board of Supervisors in 1980 in “Quest for Quality—A Charter for the 1980’s.” This document clearly sets forth LSU’s aim to build upon its comprehensive foundation and to emerge as one of the nation’s and world’s distinguished centers of learning, teaching, research, and service. These dual objectives imply that LSU must capitalize on and respond to the unique opportunities afforded by its Louisiana constituency. But these objectives also imply broader responsibilities—to the nation and to the world.

Hence, LSU’s goals require (a) recruiting and retaining faculty, staff, and students of the highest calibre; (b) providing an environment that allows students and faculty to develop their capabilities to the fullest; (c) continuing emphasis on graduate programs and continued strengthening of undergraduate curricula; and (d) exploring new boundaries of knowledge through research and scholarly activity.

*All references in this catalog to “Louisiana State University,” “LSU,” or “the University” are to be understood as meaning the institution in Baton Rouge (whose official full name is Louisiana State University and Agricultural and Mechanical College). Any reference to the LSU System or to any other institution(s) within the System is clearly indicated.
PHYSICAL FACILITIES

The University is located on a 1,944-acre tract of land—a former plantation site—in the southern part of the city. The campus is bordered on the north, south, and east by business, residential, and industrial areas of the capital city, and on the west by the Mississippi River. The University's more than 190 principal buildings are grouped on a 300-acre plateau that constitutes the main part of the campus.

Original architectural treatment on the campus was based on the Renaissance domestic style of northern Italy (tan stucco walls, red tile roofs), with buildings that house most of the classrooms and administrative offices grouped around a double quadrangle and connected by colonnaded passageways. Architects for more recent campus structures have succeeded in blending contemporary design with the older style of architecture.

The city of Baton Rouge—capital of the state of Louisiana, an inland port, and a major petrochemical center—has a metropolitan-area population of more than 500,000. According to history, the city's name is derived from a tall cypress tree which once stood at the present site of Louisiana's Old State Capitol marking the boundary between the hunting grounds of the Houma and the Bayou Goula Indians. The early French explorers called the tree le baton rouge (the red stick).

Geographically, Baton Rouge is the center of South Louisiana's cultural and recreational attractions and New Orleans is about 80 miles to the southeast. Less than an hour’s drive north lie the gently rolling hills of the antebellum country of the Feliciana parishes. The fabled French-Louisiana country of bayous, marshes, and lakes—about an hour’s drive from the campus—offers opportunities for fishing, hunting, and other recreation.

HISTORY

Louisiana State University and Agricultural and Mechanical College had its origin in certain grants of land made by the United States government in 1806, 1811, and 1827 for use as a seminary of learning. In 1855, the Legislature founded the Louisiana State Seminary of Learning and Military Academy, locating it at Pineville, Louisiana. The institution was opened January 2, 1860, with Col. William Tecumseh Sherman as Superintendent. Its exercises were suspended June 30, 1861, because of the Civil War. It was reopened on April 1, 1862, with Col. William E. M. Linfield as Acting Superintendent, who was succeeded in office, April 1, 1863, by Professor William A. Seay. It was again closed on April 23, 1863, due to the invasion of the Red River Valley by the Federal Army. The losses sustained by the institution during the war were heavy.

The Seminary reopened October 2, 1865, with Col. David F. Boyd as Superintendent. The college building was burned October 15, 1869, and on November 1, 1869, the institution resumed its exercises in Baton Rouge, where it has since remained. In 1870, the name of the institution was changed to Louisiana State University.

Louisiana State Agricultural and Mechanical College was established by an Act of the Legislature, approved April 7, 1874, to carry out the United States Act of 1862, granting lands for this purpose. It temporarily opened in New Orleans, June 1, 1874, where it remained until it merged with Louisiana State University. On January 2, 1877, the Act, as passed by the Legislature in 1876, uniting the State University and the Agricultural and Mechanical College, and locating them temporarily at Baton Rouge, became a law; it was duly promulgated June 1, 1877. The two state institutions began their first joint session on October 5, 1877, under the name and legal title of the Louisiana State University and Agricultural and Mechanical College—the name it retains today.

The first Baton Rouge home of LSU was in the quarters of the School for the Deaf. In 1886, the federal garrison grounds (now the site of the state capitol) were formally declared the domicile of the University. Land for the present campus was purchased in 1918, construction was begun in 1922, and the move was begun in 1925; it was not, however, until 1932 that the move was finally completed. Formal dedication of the present campus took place on April 30, 1926.

After some years of enrollment fluctuation, student numbers began a steady increase, new programs were added, curricula and faculty were expanded, and a true state university emerged.

The major academic divisions were founded as follows: Law School, 1906; the Colleges of Agriculture, Arts and Sciences, Education, and Engineering, 1908; the Graduate School, 1909; the Division of Continuing Education, 1924; the College of Business Administration, 1928; the Graduate School of Library Science (renamed the School of Library and Information Science in 1981), the College of Chemistry and Physics (renamed the College of Basic Sciences in 1982), and the School of Music, 1931; Junior Division, 1933; the School of Social Welfare (renamed the School of Social Work in 1983), 1937; University College (incorporated into General College in 1974), 1951; the
School of Environmental Design (renamed the College of Design in 1979), 1965; the School of Veterinary Medicine, 1968; and the Graduate Division of Education (merged with the Graduate School in 1982), 1970. In 1977, the Hebert Law Center (formerly the Law School) was made an autonomous division of the LSU System.

In 1978, LSU was named a sea grant college—the 13th university in the nation to be so designated and the highest classification attainable in the program. LSU is one of only 17 universities to be designated as both land- and sea-grant.

Louisiana State University and Agricultural and Mechanical College is accredited by the Southern Association of Colleges and Schools.

THE LSU SYSTEM

By the 1960’s LSU was no longer just a single university. The LSU System, composed of eight institutions on ten campuses in five cities, was established by an act of the Louisiana legislature on February 6, 1965. Other components of the System are the LSU Agricultural Center (headquartered in Baton Rouge and including the Louisiana Agricultural Experiment Station and the Louisiana Cooperative Extension Service); the Hebert Law Center, Baton Rouge; the LSU Medical Center (with two campuses in New Orleans and one in Shreveport and including the Schools of Allied Health Professions, Medicine, Dentistry, and Nursing, as well as a Graduate School); the University of New Orleans and LSU in Shreveport, both four-year institutions; LSU at Alexandria and LSU at Eunice, both two-year institutions.

The governing body of the LSU System is the Board of Supervisors, composed of 18 members. Chief administrative officers of the University System are the President, Vice President for Academic Affairs, and Vice President for Administration.

ORGANIZATION

The chief administrative officer of LSU is the Chancellor; directly responsible to the Chancellor are the Vice-Chancellor for Academic Affairs and Provost, the Vice-Chancellor for Administrative Services, the Vice-Chancellor for Business Affairs and Comptroller, the Vice-Chancellor for Research, the Vice-Chancellor for Student Affairs, the Vice-Chancellor for University Relations and Development, and the Athletic Director.

The academic organization consists of the following undergraduate divisions: the College of Agriculture, the College of Arts and Sciences, the College of Basic Sciences, the College of Business Administration, the College of Design, the College of Education, the College of Engineering, General College, Junior Division, and the School of Music.

The Division of Continuing Education offers instruction for persons who are not in residence on any LSU campus through off-campus classes, correspondence-study courses, short courses, conferences, seminars, and other specialized instructional programs.

Post-baccalaureate and professional divisions at LSU are the Graduate School, School of Library and Information Science, School of Social Work, School of Veterinary Medicine, and Center for Wetland Resources.

For a more-detailed outline of the organization of LSU see the “Organization Chart” on page 12 of this catalog.

FINANCES

As a state-supported institution, LSU receives most of its funds from legislative appropriations. The budget for 1987-88, including the School of Veterinary Medicine, totaled $222,169,600.

These funds, expressed in millions of dollars, came from:

- State appropriations ................................................................. $95.3
- Student fees ........................................................................... 47.4
- Sales and services (educational) ........................................... 3.7
- Sales and services (noneducational) ....................................... 12.7
- Sales and services (auxiliary enterprises) ............................. 63.1

The 1987-88 LSU campus dollar was budgeted for:

- Instruction ............................................................................... 32¢
- Research ................................................................................. 11¢
Public service .................................................. 3¢
Academic support ............................................... 8¢
Student services ............................................... 2¢
Institutional support ........................................... 5¢
Operations and maintenance ................................. 8¢
Student aid ..................................................... 3¢
Auxiliary enterprises ......................................... 28¢

Not included in the above is approximately $34 million of grant and contract funds which are restricted in their use. These funds are received from federal, state, and private sources. Capital construction for auxiliary operations (residence halls, food service, LSU Union, Athletic Department) is funded through the issuance of bonds liquidated through the operation of such units. General-use buildings are usually funded by the Legislature through the Office of Facility Planning and Control of the state government.

FACULTY

The University has approximately 1,250 full-time and part-time faculty members. The Boyd Professorship—named in honor of two early University presidents, David and Thomas Boyd—is the highest professorial rank awarded. The William A. Read Professorship of English Literature and the Nicholson Professorship of Mathematics are comparable to the distinguished Boyd Professorships. Other awards for outstanding achievement are the LSU Foundation Professorships, Alumni Professorships, Campanile Charities Professorships, Distinguished Faculty Fellowships, and the annual Distinguished Research Master Award. Recognized authorities in various fields are appointed as consulting professors or visiting lecturers.

DEGREES OFFERED

The Louisiana Board of Regents, in its "Master Plan for Higher Education," has designated LSU as Louisiana's single "comprehensive university." In accordance with this plan, LSU functions as a full-scale university, with increasing emphasis on senior division, graduate, and professional programs. Accredited by the Southern Association of Colleges and Schools, the University offers a great number and variety of courses of study. Bachelor's degrees are offered in 113 major fields, master's degrees are offered in 66 major fields, and doctoral degrees are offered in 41 major fields. The professional DVM degree is offered through the School of Veterinary Medicine.

First Degrees

**College of Agriculture**
Bachelor of Science
Bachelor of Science in Forestry

**College of Arts and Sciences**
Bachelor of Arts
Bachelor of Arts in Journalism
Bachelor of Science

**College of Basic Sciences**
Bachelor of Science
Bachelor of Science in Geology

**College of Business Administration**
Bachelor of Science

**College of Design**
Bachelor of Architecture
Bachelor of Fine Arts
Bachelor of Interior Design

**College of Education**
Bachelor of Music Education
Bachelor of Science

**College of Engineering**
Bachelor of Science in Biological and Agricultural Engineering
Bachelor of Science in Chemical Engineering
Bachelor of Science in Civil Engineering
Bachelor of Science in Electrical Engineering
Bachelor of Science in Industrial Engineering
Bachelor of Science in Mechanical Engineering
Bachelor of Science in Petroleum Engineering

**General College**
Bachelor of Criminal Justice
Bachelor of General Studies
Bachelor of Science in Construction
School of Music

Bachelor of Music

Graduate and Professional Degrees

Graduate School

Master of Applied Statistics
Master of Arts
Master of Arts in Humanities
Master of Business Administration
Master of Criminal Justice
Master of Education
Master of Engineering
Master of Fine Arts
Master of Journalism
Master of Landscape Architecture
Master of Library and Information Science
Master of Music
Master of Music Education
Master of Natural Sciences
Master of Public Administration
Master of Science
Master of Science in Agricultural Engineering

Master of Science in Chemical Engineering
Master of Science in Civil Engineering
Master of Science in Electrical Engineering
Master of Science in Engineering Science
Master of Science in Industrial Engineering
Master of Science in Mechanical Engineering
Master of Science in Nuclear Engineering
Master of Science in Petroleum Engineering
Master of Science in Systems Science
Master of Social Work
Certificate of Advanced Study in Library and Information Science
Certificate of Education Specialist
Doctor of Education
Doctor of Musical Arts
Doctor of Philosophy

School of Veterinary Medicine

Doctor of Veterinary Medicine
UNIVERSITY LIBRARIES

The University Libraries offer students and faculty strong academic support through collections containing 2,270,617 volumes, microform holdings of 2,721,398, and a manuscript collection of over 4.5 million items. A campus-wide computer network allows access to the library catalog (LOLA) from dormitories, classrooms, and laboratories.

The LSU Libraries belong to the prestigious Association of Research Libraries, which includes the top 100 academic libraries in the U.S. The Middleton Library serves as the main library, with special collections housed in the adjacent Hill Memorial Library. The LSU libraries also belong to the Research Libraries Group, the Center for Research Libraries, the Association of Southeastern Research Libraries, and the Southeastern Library Network.

Materials in the fields of chemistry and chemical engineering are located in the Chemistry Library, Williams Hall. The CEBA Reading Room, 2301 CEBA Building, contains reserve materials for business and engineering courses above the 3000 level. The School of Library and Information Science’s library is located in Coates Hall and the Design Resource Center is located in the Design Building.

The Middleton Library has a convenient, open-shelf arrangement of the main collection making material completely accessible; assistance is offered through a centralized reference service, a serials information desk, and a government documents/business administration reference desk. More information regarding library services, such as the computerized literature search service and bibliographic instruction, may be obtained from the Central Reference Department.

Other features of the Middleton Library are listening rooms with an extensive collection of recordings, and a microforms/newspaper area with approximately one million microforms. A copy service and self-service photocopying machines are available at a nominal cost. When material not found in the Middleton Library is needed for research, faculty, staff, and graduate students may borrow it through interlibrary loan.

The LSU Libraries’ subject strengths include Louisiana materials, sugar culture and technology, Southern history and agriculture, petroleum engineering, plant pathology, natural history, and various aspects of aquaculture including crawfish, wetlands research, and marine biology.

The Troy H. Middleton Collection of Memorabilia, located in the basement of the Middleton Library, includes items depicting Middleton’s life from boyhood through his retirement in 1962 as president of LSU. A book collection on military history and strategy is also contained within this special room.
The Business Administration/Government Documents Department contains the LSU Libraries' Business Administration reference collection, the United States Depository Library collection, the United Nations documents collection, the U.S. Patent Depository Library collection, and the Nuclear Regulatory Commission Public Documents Reading Room collection. The Library has been a depository for publications of the federal government since 1907 and now has a substantial portion of the U.S. documents issued before and after that time. In 1964, the Library became a Regional Depository Library, thereby increasing the scope of publications received. The holdings of United Nations publications date from the establishment of the United Nations in 1947. In 1981, the Library was designated an official depository for U.S. Patents. The patent collection includes all patents issued from 1871 to the present. The NRC Public Documents Reading Room collection houses information relating to the Riverbend Nuclear Power Plant. The department also has an extensive collection of scientific and technical reports from the U.S. Department of Energy, the National Aeronautics and Space Administration, and the National Technical Information Service.

The Libraries' collections have been greatly enriched through the acquisition of several private collections. These include the David S. Blondheim Collection of romance philology materials; the Richard T. Ely Collection on economics and related subjects; the Jules M. Burguieres Sugar Collection, a fine collection on sugar culture and sugar technology; the Klaus Berger Collection on art history; the Clarence J. Laughlin Collection of art, photography, and related subjects; and the T. Harry Williams Collection of Civil War and American history materials.

The LSU Libraries' Special Collections in Hill Memorial Library provide a center for research in the humanities, social sciences, and fine arts. It houses, preserves, and services rare and/or expensive materials, materials requiring special handling or protection, and materials dealing with specific subject areas. These materials are serviced in two separate departments, the Louisiana and Lower Mississippi Valley Collections and the Rare Book Collections.

The Louisiana and Lower Mississippi Valley Collection is an outstanding research and reference collection, consisting of all the materials documenting the history and culture of the region. It is an integrated collection, featuring books, journals, maps, prints, photographs, and manuscripts. It provides rare and early imprints pertaining to the exploration and colonization of the region, books on Louisiana subjects by Louisiana authors, Louisiana state and municipal documents, and a vertical file on numerous Louisiana topics. The Louisiana and Lower Mississippi Valley Collection also contains the extensive and prestigious manuscript collections of the LSU Libraries, which include the personal and private papers of important individuals in the history of the region, including the Long family, as well as extensive records of business, professions and organizations; an extensive photograph collection; and the official records of the University preserved in the University Archives. The Louisiana and Lower Mississippi Valley Collection constitutes an important resource for research in political and social history, cultural geography, agriculture, education, American French literature, speech, sociology, music, and other fields in the humanities and social sciences.

The Rare Book Collections consist of materials that are generally rare, expensive, or otherwise in need of special handling or protection. The iconographic collections of the LSU Libraries, including framed prints, sculptures, and original oil paintings, are maintained and serviced as part of the Rare Book Collections. Among these special collections are:

- The Rare Book Collection, with special strengths in book arts and the history of the book, including the Bruce Rogers Collection, and books on the subjects of New World exploration and travel.
- The E. A. McIlhenny Collection of natural history classics was founded in memory of Edward Avery McIlhenny. The original ornithological collection has been greatly expanded to cover the entire field of natural history. The collection is open to the public and University community alike, and as a research source its value is immense.
- The Warren L. Jones Lincoln Collection of approximately 5,000 items includes all of the great Lincoln books and pamphlets, special editions of some of the outstanding works, and many publications contemporaneous with Lincoln's own lifetime.
- The Oliver P. Carriere Collection of Poker and Hoyle is an extensive collection of the works of Edmund P. Hoyle, as well as one of the most comprehensive collections of works relating to poker.
- The Judge Warren L. Jones Lincoln Collection focuses on the life and times of Abraham Lincoln.
- The Gladney Chess Collection consists of rare material relating to the game of chess.
- The Rendell Rhoades Crawfish Collection contains four centuries of scientific literature on the taxonomy and culture of the crawfish.
Hill Memorial Library also houses the LSU Libraries’ Microfilming and Photographic Preservation Department. For more than forty years, the department has preserved most of the newspapers published in the state. The department is also responsible for carrying out the preservation of the extensive photographic collections of the Louisiana and Lower Mississippi Valley Collections, and for general conservation work in all areas of Special Collections. In addition, the Department produces photocopies, photographs, and microfilm of materials to serve the needs of researchers and other institutions.

LSU PRESS

Founded in 1935, the LSU Press is one of the oldest and largest presses of its kind in the South and one of the outstanding scholarly publishers in the country. Like other university presses, it exists primarily to publish works of scholarship, and its purposes are, therefore, essentially academic.

The LSU Press publishes approximately 60 books each year. The final decision to publish a manuscript rests with the Faculty Senate University Press Committee, composed of eight faculty members. Over the years, the books which the Press has published have won many important awards, including Pulitzer prizes in fiction and poetry. It has especially earned an outstanding reputation in the fields of southern literature, biography, and history.

THE SOUTHERN REVIEW

The Southern Review, now in its second series, is an internationally known literary magazine under the co-editorship of Professors James Olney and Fred Hobson, with Lewis Simpson and Donald E. Stanford serving as consulting editors. Founded in 1935 by Cleanth Brooks, Robert Penn Warren, Albert Erskine, and Charles Pipkin, The Southern Review publishes poetry, fiction, book reviews, and critical articles with emphasis on modern literature and the literature and culture of the South. Issues appear in January, April, July, and October. Subscriptions are $12 a year for individuals, $30 a year for institutions. Manuscripts and subscription orders should be addressed to The Southern Review, 43 Allen Hall, LSU, Baton Rouge, Louisiana 70803.

ARTIST AND LECTURE SERIES

Some of the established series at LSU are the Summer Festival of Arts, the Festival of Contemporary Music, the J.C. Greer Lecture Series, the Thomas Austin Kirby Lectures in the Humanities, the J. Norman Efferson Lectureship Series, the Max Goodrich Distinguished Speaker Series, the Walter Lynwood Fleming Lectures in Southern History, the William A. Lawrence Lecture, the Master Teacher Forum, the Edward Douglass White Lectures, the R. J. Russell Lectures, the Hubert H. Humphrey Lectureship in Public Affairs, the Freeport Chemical Company Lectureship in Chemical Engineering, the Bicentennial Commemoration Lectureship in Chemical Engineering, the Frank J. Germaino Lecture Series on the Practice of Civil Engineering, the L. J. Wilbert Memorial Lecture in Geology, the Giles Wilkeson Gray Lecture Series in Speech, the Marine Sciences Distinguished Lectureship Series, the Aesculapian Lecture Series in Veterinary Medicine, the College of Design Lecture Series, and the Performing Arts Series.

ORGANIZATION FOR TROPICAL STUDIES

The Organization for Tropical Studies (OTS) is a nonprofit scientific, academic consortium whose mission is to provide leadership in tropical studies by promoting education, research, and the wide use of natural resources in the tropics. Founded in 1963, OTS is now composed of 40 premier institutions in the U.S. and Central America, including LSU. Graduate students at LSU are eligible to participate in OTS’s renowned field courses in tropical biology and tropical agricultural ecology and to apply for tropical research fellowships through the consortium.

OTS courses and research activities are centered in Costa Rica. Central headquarters are in San José in association with the Universidad de Costa Rica; several field stations are located throughout the countryside. OTS offers its facilities, equipment, and staff for support of meritorious programs of tropical research. Limited funds are available through OTS for qualified faculty and graduate participants to initiate projects in tropical research.
Additional information regarding the program and application forms for participation are available from Dr. G. B. Williamson, Department of Botany, 305 Life Sciences Bldg., or from the Organization for Tropical Studies, North American Office, P.O. Box DM, Duke Station, Duke University, Durham, North Carolina 27706 (Central American address is Organization for Tropical Studies, Central American Office, Apartado 16, Universidad de Costa Rica, San José, Costa Rica, C.A.).

OAK RIDGE ASSOCIATED UNIVERSITIES

LSU is one of the founding sponsors of Oak Ridge (Tennessee) Associated Universities (ORAU), a nonprofit education and research management corporation of 49 colleges and universities. ORAU, which was established in 1946, conducts programs of research, education, information, and human resource development for a variety of government and private organizations. It is particularly interested in energy, health, and the environment.

Among ORAU’s activities are competitive programs to bring undergraduates, graduate students, and faculty members to work on research problems at the facilities of the U.S. Department of Energy (DOE). Participants are selected by ORAU and the staffs of the facilities participating in the ORAU programs.

The ORAU Undergraduate Research Training Program offers juniors majoring in the sciences, engineering, and mathematics an opportunity to spend the summer working in directed research programs at one of the participating sites. The ORAU Laboratory Graduate Participation Program enables a candidate for an advanced degree, upon completion of all residence requirements except research, to work toward completion of a research problem and preparation of the thesis or dissertation at one of the participating sites. Under the ORAU Faculty Research Participation Program, LSU faculty members can go to a DOE facility for periods up to three months for advanced study and research. It is also possible to combine a sabbatical with a longer appointment.

Stipends are available. Student stipends are set at fixed rates that change from time to time. Faculty stipends are individually negotiated, based upon the faculty member’s current University salary.

Copies of bulletins and announcements of the ORAU-DOE university-laboratory programs are available from Dr. John C. Courtney, who serves as the ORAU Councilor for the LSU System. Bulletins also may be obtained from the University Programs Office, Oak Ridge Associated Universities, Inc., Box 117, Oak Ridge, Tennessee 37831.

NUCLEAR SCIENCE CENTER

The Nuclear Science Center, originally established in 1959 as a service facility for the entire University, now has additional primary roles in research and instruction. Specialized radiation detection and measuring equipment and laboratories accommodate many educational and research activities using nuclear energy technology. Facilities available for experimentation include a variety of counting and spectroscopic systems to measure and characterize nuclear radiations. Automated low background, high-sensitivity alpha, beta, and gamma counters are available to qualified investigators. Radiation sources include a neutron generator; an x-ray machine; a kilocurie cobalt-60 pool irradiator with two source configurations and dose rates; and equipment for radiotracer applications. Field studies using the center’s radioecology field laboratory may be arranged.

University personnel must contact the campus Radiation Safety Officer in the Nuclear Science Center before working with radioisotopes or radiation-producing devices on LSU property (call 388-2163 or the Center for Energy Studies at 388-4400).

SYSTEM NETWORK COMPUTER CENTER

The System Network Computer Center (SNCC) provides computer resources for instruction, research, and administrative data processing. The staff conducts seminars, maintains a broad selection of software, consults with center clients, assists with and promotes the use of microcomputers and data communications, and manages distributed computer centers.

Computing supported by SNCC includes microcomputers, superminicomputers, terminals, three major I/O rooms, data communications, and wide area networks. An IBM 3084Qx6 64 megabyte mainframe computer supported by the MVS/TSO operating system is used for research, administrative data processing, and instruction. An IBM 3033 16 megabyte machine supported by the
VM/CMS operating system and a Data General MV/10000 are used predominantly for interactive student support. BITNET and SURAnet are two wide area data networks that are supported by SNCC. These networks are used to communicate with other research institutions.

MUSEUMS

LSU Museum Complex

The Anglo-American Art Museum, the Museum of Geoscience, and the Museum of Natural Science form the LSU Museum Complex, the purposes of which are research, enrichment of various academic programs, and public service.

Anglo-American Art Museum

The Anglo-American Art Museum, located in Memorial Tower, houses the University’s permanent fine arts collection and shows the cultural relationship between the United States and Great Britain. The museum contains original period rooms from England and America representing the early 17th through the mid-19th centuries, as well as galleries for temporary exhibitions. In addition to the period rooms, there is a strong painting, print, and drawing collection which includes works by Hogarth, Gainsborough, Reynolds, Benjamin West, and Rembrandt Peale, and some of the contemporary masters. The museum’s collection of the graphic works of Caroline W. Durieux, internationally recognized printmaker, is the most comprehensive in existence. The museum also houses outstanding collections of New Orleans-made silverware, Newcomb pottery, and other crafts made in New Orleans as well as early oil and watercolor paintings depicting south Louisiana subjects, especially Baton Rouge area views.

Museum of Geoscience

The Museum of Geoscience, located in the Geology Building, contains the most extensive archaeological and geological museum collections in Louisiana. Research, teaching, and display collections include more than one and one quarter million items. The museum curates archaeological collections including over one million lots from 1800 sites in Louisiana and many other sites in the Gulf Coast and Caribbean regions. It conducts a continuing program of archaeological site excavations. The ethnological inventory includes material from North and South America, Africa, Australia, Oceania, Asia, and the Arctic. The Chitimacha Indian basketry collection is unmatched elsewhere. Paleontology and geology collections include fossils, rock samples, minerals, and well cores from the Gulf Coast region, Mexico, Central and South America, the Caribbean Islands, and Europe. The H. V. Howe Type Collection of fossil ostracoda and the H. B. Stenzel Collection of fossil oysters are among the best of their kind in the world. Museum displays include the Louisiana Indian Room, displays on evolution, a Louisiana mastodon, rocks and minerals, dinosaur tracks, and a fifteen-case “Introduction to Geology” sequence. New displays include “Hunting for Dinosaurs” and “The Louisiana Geologic Map.” Traveling displays which circulate include “Louisiana Indians through the Ages,” “Montgomery Landing, Louisiana’s Finest Fossil Site,” “Early Cartography in Louisiana,” “Indian Pottery Technology,” and “Fluorescent Minerals.” The museum is a member of the American Association of Museums and the Louisiana Association of Museums. It is an associate member of the Association of Science-Technology Centers. The Museum of Geoscience Associates organization supports museum activities and provides lectures and field trips for members.

Museum of Natural Science

The Museum of Natural Science, located in Foster Hall, is open daily to the general public. The museum’s exhibits consist of nine major dioramas that depict with meticulous accuracy the flora and fauna of selected scenes from North America, representatives of Louisiana’s animal life, and visual aids that explain various biological principles.

The Museum of Zoology, the research division of the Museum of Natural Science, contains extensive research collections, numbering over 375,000 cataloged specimens of birds, mammals, fishes, amphibians, and reptiles. This repository of zoological material provides the basis for a program of organized research and serves as an important aid in teaching biological subjects.
Other Museums

LSU Herbarium

The LSU Herbarium houses the permanent, scientific collection of algae, lichens, ferns, fern allies, gymnosperms, and flowering plants. It is a research and public service facility, which is also utilized in upper-level courses; its use is arranged through the Curator, 305 Life Sciences Building. The collection includes pressed specimens and botanical materials preserved in liquid. The Gray Herbarium Card Index and other selected literature are housed in the herbarium. The aim of the herbarium is to include specimens of all species in the Louisiana region and other areas. Accession of new material includes that obtained through exchange programs with other institutions and the collections of professional biologists and amateurs. The herbarium serves as a focal point for an array of studies ranging from basic plant identification to studies of entire floras. Its main functions are to document geographic ranges, ecological habitats, and variation within species and to provide materials for teaching and research. Numerous publications are based on the collections. The herbarium, which includes specimens from as early as 1830, was established by Americus Featherman in 1869 and is one of the oldest in the South. It is listed in the world index of the International Association for Plant Taxonomy and is affiliated with the Association of Systematics Collections.

Mycological Herbarium

The Mycological Herbarium contains the University’s permanent collection of about 16,000 fungi which are of worldwide geographical distribution. On request, specimens are loaned to other institutions—domestic and foreign—and a research program is maintained in the field of fungus taxonomy, with emphasis on neotropical groups. The collection is located in the Life Sciences Building.

Rural Life Museum

The Rural Life Museum, a twenty building complex, is located approximately five miles from campus on the University’s 450-acre Burden Research Plantation. The museum is divided into three areas. The Barn contains hundreds of artifacts dealing with everyday rural life dating from prehistoric times to the early twentieth century. The Working Plantation consists of a complex of buildings—commissary, overseer’s house, kitchen, slave cabins, sick house, schoolhouse, blacksmith’s shop, sugarhouse, and grist mill—authentically furnished to reconstruct all the major activities of life on a typical nineteenth-century working plantation. Louisiana Folk Architecture is exemplified in seven buildings—a country church, a pioneer’s cabin and corncrib, potato house, shotgun house, Acadian house, and a dogtrot house—whose divergent construction traits illustrate the various cultures of Louisiana settlers.

THE ALUMNI ASSOCIATION

The LSU Alumni Association, a nonprofit organization of more than 125,000 members who are graduates or former students of LSU, is dedicated to helping the University through fund raising, world-wide chapter programs, academic recruiting, student aid, and various information programs. Active membership in the Association is gained through an annual contribution of $25 or more to the LSU Alumni Association. Each member receives a subscription to the LSU Magazine, as well as discounts at the LSU Golf Course and on car rentals. Members are eligible to participate in group travel, life insurance, and hospitalization plans; are eligible for membership in the Campus Federal Credit Union; and are entitled to limited use of some University facilities. All graduates receive a free one-year membership in the Association. Those who contribute $100 or more are included in the LSU Leadership Legion.

Alumni gifts generated through the Association are used to support the Alumni Scholars Program and other academic scholarships of $250 to $3600 annually; alumni professorships of $5000 annually; student jobs; various other faculty awards; and seminars, workshops, and meetings.

Homecoming celebrations, reunions, campus visitations, and chapter programs throughout Louisiana and around the world are planned each year by the Alumni Association. Alumni recognition programs include the LSU Alumnus of the Year, the University’s highest alumni honor, and the LSU Alumni Hall of Distinction.

The Alumni Association is organized on both academic and geographic lines, offering membership in local area chapters and academic affiliate chapters. The Association also sponsors the LSU
Parents Association, an organization of parents of LSU students which serves as liaison between parents and the University, and a student alumni organization. The Association Board of Directors formulates policy for the Alumni Association.

The Alumni Association is housed in the LSU Alumni Center, 54 University Lakeshore Drive. The center also serves as offices for the Division of University Relations and Development, including Public Relations, Development, and Business and Operational Services.

Additional information about membership in the Alumni Association, any of its subsidiaries, or its programs may be obtained from the LSU Alumni Association, P.O. Box 25097, Baton Rouge, Louisiana 70894-5097 or by calling 1-800-222-4LSU.

LSU FOUNDATION

Chartered in January 1960, the LSU Foundation is a nonprofit, tax-exempt organization composed of more than 225 business, professional, and civic leaders who are concerned with the welfare and development of LSU and A&M College. The LSU Foundation solicits financial support from businesses, industries, philanthropic foundations, and individuals to fund programs of educational excellence for LSU and A&M College.

The LSU Foundation has provided LSU and A&M College with many elements of academic enrichment which would not have been available otherwise. Private giving through the LSU Foundation supports professorships, distinguished lecture series, distinguished faculty fellowship awards, and staff incentive awards for nonacademic employees of LSU; scholarships and fellowships; studies in the humanities and professional fields; and acquisitions of library and museum artifacts and many other similar items which usually cannot be supported entirely with state revenues.

The LSU Foundation accepts undesignated gifts to be used in any academic area of the University where need is greatest; restricted gifts, used exactly for the purpose designated by the donor; special gifts such as objets d'art and rare library materials; and planned gifts made through wills, life insurance policies, and trusts.

Additional information about the LSU Foundation may be obtained from the Director of Development, LSU Foundation, P.O. Box 19060-B, LSU, Baton Rouge, Louisiana 70893.

PUBLIC RELATIONS

The Office of Public Relations includes four divisions whose functions are to inform the public of the University’s activities, accomplishments, policies, needs, and plans. The staff of Electronic Media produces radio and television feature material in the form of audio and video tapes for broadcast throughout Louisiana and the adjoining region. The News Service staff prepares and distributes news releases, feature stories, television news films, and photographs to newspapers, wire services, radio and television stations, journals, magazines, and other periodicals. The Publications staff designs, edits, and oversees the production and distribution of more than 400 regular and special publications of the University each year. The Photography section handles photo coverage for the news service staff and provides pictures for University publications. Photographic services are also available to faculty and staff.

INTERCOLLEGIATE ATHLETICS

The Athletic Department operates a broad intercollegiate sports program for men and women in 18 sports, and is a charter member (1932) of the Southeastern Conference. LSU meets teams from other major universities in NCAA Division-1A competition in football, basketball (M&W), baseball, indoor and outdoor track and field (M&W), cross country (M&W), golf (M&W), tennis (M&W), swimming (M&W), women’s gymnastics, and women’s volleyball.

Athletic facilities include a football stadium (Tiger Stadium) with a seating capacity of 77,542; four lighted football practice fields and one lighted baseball practice field; a lighted metric track (Bernie Moore Stadium) with a Rekortan surface and seating accommodations for 5,680; a lighted baseball complex (Alex Box Stadium) with seating for 5,000; and six lighted tennis courts with an elevated grandstand.

The recently completed (1985) Natatorium facility provides an eight-lane Olympic-size indoor pool and diving well. The Assembly Center, a multipurpose facility, seats 14,237 and is the home court for the men’s and women’s basketball teams, women’s gymnastics, and women’s volleyball. The Field House provides a 220-yard track facility; a gymnastics practice room; three regulation
handball courts; and a large, unobstructed, air-conditioned playing area for basketball, volleyball, indoor tennis, badminton, and other activities. It is available as a competitive indoor track facility and serves as a practice area for the varsity football, baseball, track, and tennis teams. It is also used for teaching, organized recreational activity, and leisure-time activity for the University community.

LSU has hosted the NCAA Track and Field Championships three times. In addition, the basketball NCAA midwest regionals and first/second rounds have been played in the Assembly Center.

POST OFFICE

University Station, Baton Rouge, Louisiana 70803 is a federal government post office located in the LSU Union Building. Mail service is provided to students and faculty members who are post office box holders or who receive mail through University departments. The office is open from 8:30 a.m. to 4:30 p.m. Monday through Friday and closed on weekends and federal holidays. The lobby, however, remains open when the office is closed so that mail may be picked up from post office boxes. A post office box may be rented for the school year or for one or more semesters. Post office boxes may be shared only with spouses, brothers and/or sisters having the same last name. Rental fee information may be obtained by writing to: Superintendent, University Station, Baton Rouge, Louisiana 70803. General delivery service is not available. Please note that the 70893 zip code is for post office boxes only; all other department mail should carry the 70803 zip code.

All mail must be addressed to the student’s box number since the University does not provide mail service to dormitories. "Special Delivery" and "Express Mail," however, will be delivered to dormitories if it is so addressed. Delivery service to the University-owned apartment complexes on Nicholson Drive and West Roosevelt is provided by the Main Post Office, 750 Florida St., Baton Rouge, LA 70820.
Admission to the University

Office of Admissions
110 Thomas Boyd Hall
388-1175

The University operates on a two-semester plan with an additional nine-week summer term. Qualified applicants, except in the School of Social Work, the M.B.A. program, and the School of Veterinary Medicine, may initiate their studies at the beginning of any term.

APPLICATION PROCEDURES

Requests for information and application forms for admission and readmission should be addressed as follows:

Undergraduate Divisions and Graduate School: Office of Admissions.
School of Veterinary Medicine: Dean, School of Veterinary Medicine.

Undergraduate application forms are also available in many high schools. In addition, application packets are sent to students who have scores on the American College Test (ACT) and Scholastic Aptitude Test (SAT) of College Board sent to the University.

Application materials consist of an application for admission and appropriate information about admission policies and procedures. The application for admission also serves as a scholarship application for freshmen students. A former LSU student who has not been enrolled for one or more semesters must submit an application for reentry. Reentry students may simplify the process by requesting a computer printout of their original application form. Arrangements for admission, housing, and financial aid are made separately through the Office of Admissions, the Office of Residential Housing, and the Office of Student Aid and Scholarships. 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. For further information, see the "Housing and Residence Life" and "Scholarships and Awards" sections in this catalog.

Applicants accepted as full-time students will be asked to submit a medical history questionnaire as part of the registration process. Information provided on this questionnaire is confidential and is used only by the Student Health Center physicians.
A nonrefundable application fee of $25 for U.S. citizens and immigrants ($50 for others) must accompany the application for admission or reentry. The fee should be paid by a check drawn on a U.S. bank (or U.S. money order) and show the name of the student for whom payment is made. This service fee is used to help cover the cost of processing applications. It is neither refunded if admission is denied, nor is it applied against other costs when the student subsequently enrolls.

Application deadlines: July 1 for fall semester, December 1 for the spring semester (November 1 for persons who are not U.S. citizens or immigrants), and May 1 for the summer term. High school students should submit their applications as early as possible after the junior year of high school. Applicants who have already graduated from high school should submit applications as early as possible in the semester preceding the date admission is desired. High school transcripts should be sent along with the application or immediately thereafter.

Admission decisions and eligibility for classification as a resident of Louisiana are determined in accordance with University regulations and are based on evidence provided in the application for admission and related documents. Residence status is determined by the Office of Admissions after the completed application for admission has been submitted. (See also "Residence Status" in the "University Regulations" section of this catalog.) Residence status is not determined for students auditing only or for students enrolled in correspondence courses of the Office of Independent Study.

EDUCATIONAL REQUIREMENTS AND ADMISSION PROCEDURES

Applicants who meet the educational requirements listed in this catalog will be considered for admission. Admission is not automatically granted by meeting these requirements, and may be denied if other factors, in the judgment of University officials, merit denial. Issues such as limited enrollment in certain curricula, timeliness of applications, unavailability of certain programs, and other relevant factors may be considered. Furthermore, the University may deny admission, readmission, or continued enrollment to persons whose behavior is disruptive, dangerous, or abusive.

Admission may be granted under certain unusual circumstances, even when all stated requirements are not met. In each case, consideration will be given to (1) any unique contribution the University may make to an applicant's educational and/or career interests; (2) extraordinary talents, achievements, or creative ability; (3) age group or ethnic background which would complement a diverse student population; or (4) other extenuating circumstances meriting special consideration.

Freshmen

New freshmen must have graduated from approved high schools. Furthermore, beginning with the fall semester of 1988, each freshman must have completed a total of 17½ high school units in the seven categories listed below:

Category 1: ENGLISH COMPOSITION AND LITERATURE (four units)—English I, II, III, and IV.

Category 2: COLLEGE PREPARATORY MATHEMATICS (three units)—Algebra I, Algebra II, and one additional unit consisting of courses such as Geometry, Trigonometry, Advanced Mathematics, or Calculus.

Category 3: NATURAL SCIENCES (three units)—Biology, Chemistry, and Physics.

Category 4: SOCIAL STUDIES (three units)—One unit in American History; one unit in World History, World Geography, or History of Western Civilization; and one unit consisting of courses such as Civics, Free Enterprise, and Economics.

Category 5: FOREIGN LANGUAGES (two units)—Two units in a single language.

Category 6: COMPUTER STUDIES (½ unit)—Computer Science, Computer Literacy, or Data Processing.

Category 7: ACADEMIC ELECTIVES (two units)—Two additional units from categories 1 through 6 above, and/or advanced courses in the visual and performing arts (Art III, Art IV, Advanced Band, Applied Music, Advanced Chorus, Jazz Ensemble, Music Theory II, Advanced Orchestra, Wind Ensemble, and Studio Piano III). In addition, certain courses approved by the Louisiana State Department of Education for individual schools may also apply in category 7 (Musical Theatre; Methods and Styles of Acting I and II; Play Production I and II; and Individual Art Studies (whenever Art II is a prerequisite), including Drawing, Painting, and Printmaking.
Alternatives and Exceptions

- A student to whom no foreign language instruction has been available may be admitted with the condition that two semesters of a foreign language at LSU will be included in the requirements for graduation.
- Physics is often unavailable at a school, or inaccessible to some students. In those cases, the student may be admitted with the condition that a course in physics will be included in the requirements for graduation.
- At some schools, students graduating in 1988 may have been unable to take a course in computer studies. In that case, this requirement will be waived.
- A student, who for any reason, has not met all the requirements may still be considered for admission on the basis of the entire high school record, grades earned, scores on the ACT (or SAT), and rank in class. A student with outstanding academic credentials may be granted unconditional admission even if a specific course deficiency exists. Such decisions will be made on an individual basis.

Any student who will have completed high school has the right to apply for admission, even if he or she will not have met all the unit requirements. A positive decision may be made in such a case if there is sufficiently favorable evidence with respect to the quality of academic preparation and ability to succeed in a degree program. High school grades, ACT or SAT scores, and special talents will be considered. A student athlete who is awarded an athletic grant-in-aid will be admitted if he or she meets the standards found in Bylaw 5-1-(j)-(1) of the National Collegiate Athletic Association. Any Louisiana resident who is at least 21 years of age may apply, and in that case, the person’s whole background of education, training, and experience will be taken into consideration. If admission is granted in any of the foregoing cases, it may be conditional, which means that the student would have to meet specified additional conditions for graduation and/or continued enrollment.

GED graduates will be subject to the requirements as outlined above. Graduates of unapproved high schools must meet the unit requirements and submit satisfactory grades and ACT (or SAT) scores.

The unit requirements will not apply to students who begin college at another campus in the LSU System in summer 1988 and who transfer to LSU at the beginning of the fall semester of 1988, provided they have satisfactorily completed a full-time summer term.

Additional Requirements for Non-Louisiana Residents

Enrollment of students from states other than Louisiana is limited to those whose academic qualifications in terms of achievement and aptitude are clearly above average. In the admission decision, all available information is considered—grades, subjects taken in high school, rank in class, ACT (SAT) scores, appropriateness of proposed field of study in relation to the applicant’s apparent ability, recommendations from principals or counselors, and motivation. Records of students who qualify for and are awarded athletic grants-in-aid are evaluated according to Louisiana residence requirements. Nonresidents who meet the above requirements must also have an overall average of 2.00 on any college work attempted prior to the proposed date of enrollment at LSU.

Students should ask their high schools to send transcripts as soon as grades for the sixth semester (end of junior year) are available. Applicants will be notified concerning acceptance soon after applications and transcripts are received. Applicants who are granted admission are required to furnish final records immediately following high school graduation.

The American College Test

All freshmen are required to submit scores on the American College Test (ACT). (The Scholastic Aptitude Test, SAT, of the College Board will be accepted instead, but the ACT is preferred.) Application forms for the ACT may be obtained from the high school counselor or by writing to the Registration Department, American College Testing Program, P.O. Box 414, Iowa City, Iowa 52240. The application form is accompanied by a Student Information Bulletin which describes the test, gives dates and places for test administrations, and outlines procedures for registration. Test centers are located throughout the U.S., with tests administered on five specific dates established by the testing service each year. Scores are reported to the colleges and universities as requested by the student. LSU’s ACT code number is 1590 and should be specified by students at the time they register for the ACT. Failure to do so will prevent critical early contact with prospective students, delay the admission process, and may result in failure to give timely consideration for scholarship purposes.
 Applicants are advised to take the ACT in April or June of their junior year of high school or as early as possible in their senior year. The scores on the ACT are used with other data for placement into freshman courses, for counseling, and for selection of scholarship and loan recipients. ACT or SAT scores are used for admission decisions for applicants who are not residents of Louisiana, for resident applicants who graduate from nonaccredited high schools, for applicants to early-admission and concurrent-admission programs, for applicants who have high school course deficiencies, and in some other cases.

Early and Concurrent Admission Requirements

The Early-Admission Program permits high school students who have not completed all requirements for a high-school diploma to apply for admission to LSU as regular students provided they fulfill these minimum requirements: 15 units of high school credit, including 3 units of English; an overall academic average of 3.00 ("B'"); and an ACT composite score of 27. From the students who meet these requirements, a limited number are selected. Among the considerations in selection are maturity, rank in class, grades, recommendation of the high school principal and others, and additional evidence of scholarly achievement.

A Concurrent-Enrollment Program allows well-qualified high school seniors to register in one or more courses at LSU. Requirements for participation in the program are senior classification, a grade-point average of at least 3.00, an ACT composite score of 26, recommendation of the high school principal and certification that the student has completed the high school's most advanced course in the subject area(s) in which the student wishes to enroll (or that in the principal's best judgement, the student is qualified), and the recommendation of the head of the appropriate department of the University. Concurrent enrollment will be permitted only when space, faculty, and other University facilities can accommodate these students.

Advanced Standing

See "Advanced-Standing Program for Beginning Freshmen" in the "University Regulations" section of this catalog.

Pre-Enrollment Counseling and Preregistration for Entering Freshmen

Applicants who intend to enroll in the fall must be admitted by July 1, have ACT or SAT scores on file, and participate in the pre-enrollment counseling and preregistration program. This program includes testing for placement and advanced standing, and the opportunity to meet with a counselor for advice on the selection of courses for the fall semester. Announcements giving dates and complete information regarding this program are sent to applicants and to high schools.

Undergraduate Transfer Students

An undergraduate student with a satisfactory record from an accredited college or university is eligible to apply for admission to LSU as a transfer student. A student desiring such admission should submit an application and transcript as early as possible during the semester or term preceding the date admission is desired. Eligibility for admission cannot be finally determined until the application and a complete, official transcript from each college or university attended have been received. Each college or university attended must be listed on the application form, and an official transcript must be sent from each institution, regardless of whether credit was earned. Students who fail to acknowledge attendance at any college or university in which they have been registered are subject to having their admission cancelled or, if enrolled, to dismissal from this University.

Students enrolled in college at the time applications are submitted should have transcripts sent when they apply for admission, to be followed by supplementary records at the close of the semester. Provisional admission, pending receipt of supplementary records, may be given when it is impossible to obtain these records prior to scheduled registration dates. This admission will be cancelled if the required records are not received by the Office of Admissions within 30 days from the first day of classes or if it is determined, upon receipt of records, that the applicant does not qualify for admission.

The unit requirements for freshmen students entering in 1988 will apply also to transfer students who have earned fewer than 24 hours of college-level credit (see "Freshmen"). If a transfer student has deficiencies in terms of the high school program completed, and if LSU grants transfer credit for some of the college courses that the student has completed, then LSU may accept some of those courses as making up some or all of the deficiencies.
To be considered for admission, an applicant who is not classified as a resident of Louisiana must have an average of at least 2.00 (‘‘A’’ = 4) on total semester hours of college-level credit attempted.

A Louisiana resident who has scheduled 55 or more semester hours of credit must have a 2.00 grade-point average on total college work attempted to be considered for admission. A Louisiana resident who has scheduled from 12 to 55 semester hours of college work must have at least a 1.75 grade-point average on total semester hours of credit attempted. A resident of Louisiana who has attended college less than one semester or who has been enrolled on a part-time basis for less than 12 semester hours of credit and who is admitted, may be placed on probation in keeping with the rules that apply to LSU students with similar records. (See ‘‘Scholastic Regulations for Junior Division Students.’’)

Applicants who have failed to earn an overall 2.00 average on courses scheduled in the last two semesters of college attendance or who have a scholastic record which, if earned at LSU, would have resulted in suspension, may be denied admission even though their overall average may meet scholastic requirements for admission. Louisiana residents whose records do not meet transfer requirements and who have not been enrolled in resident study in a college or university during the previous calendar year may be considered for admission if they present evidence of ability to do satisfactory college work. Students admitted on this basis may be placed on scholastic probation.

In computation of the grade-point average, a grade of ‘‘A’’ carries 4 quality points per semester hour; ‘‘B,’’ 3 quality points; ‘‘C,’’ 2 quality points; ‘‘D,’’ one quality point; and ‘‘F,’’ no quality points. All courses taken, including repeated and unresolved incomplete courses as well as courses with any other grades except those in which grades of ‘‘W’’ are recorded, are included in the computation of the grade-point average. No Credit (NC) or similar grades indicating unsatisfactory completion of studies in courses for which LSU gives grades of ‘‘A,’’ ‘‘B,’’ ‘‘C,’’ ‘‘D,’’ or ‘‘F’’ will be computed as ‘‘F’s’’ in the grade-point average. This policy is followed regardless of the practice of the sending institution or other campuses within the LSU System.

Individual colleges or schools within the University may have specific requirements for admission above the minimums listed here. For these requirements, students should consult the appropriate sections of this catalog.

Acceptance of Credit from other Collegiate Institutions.

The evaluation of credit from other institutions is made in the Office of Admissions after the student’s complete application and all official transcripts from each college and university attended are received. In general, credit earned in colleges and universities accredited by regional accrediting associations is given full value. Transfer credit will be allowed for a maximum of 21 semester hours scheduled in any one semester. Only work which is acceptable by the offering institution as baccalaureate degree credit is recognized. Credit earned in two-year technical or terminal degree programs which, when completed, results in an ‘‘associate in applied sciences’’ diploma may be accepted to the extent that the courses parallel baccalaureate degree work here, as determined by the appropriate department and subject to the normally applicable conditions. Students who have earned one-half of the credit required for a degree may not utilize in fulfillment of degree requirements additional credit earned in a two-year college (except in the LSU System) unless specifically authorized by the dean of the college in which enrollment is sought. A maximum of one-fourth of the credit required for the degree may be earned through regionally accredited university correspondence and extension study.

For schools not regionally accredited, the University is guided in its decision regarding acceptance of credit by recommendations of selected institutions in the states in which the schools are located. Credit earned from nonaccredited institutions may not be recognized. Applicants who are admitted are given an opportunity, usually through advanced-standing examinations, to validate some or all of the credit. Each student’s record from a nonaccredited college will be considered on the basis of individual merit.

See also ‘‘Acceptance of Credit by Examination from Other Institutions’’ in the section, ‘‘University Regulations.’’

Credit allowed by the Office of Admissions for transfer is, in all cases, subject to review by the student’s college with reference to its applicability toward a particular degree, and the student is expected to conform to all requirements of the chosen degree program. Questions relating to the evaluation of credit should be referred to the Office of Admissions. Questions relating to the acceptance of credit toward a degree program and the length of time required for completion of degree requirements should be referred to the appropriate college or school.
Former LSU Students and Transfer Students from Within the LSU System

Former students who were not registered at LSU for the preceding regular semester must file a formal application for reentry. Because reentry is not automatic, applications should be submitted as early as possible in the semester preceding the date that admission is desired. Although all records may be on file, it is necessary to examine them to determine eligibility. Students previously enrolled at LSU who have subsequently enrolled at another campus within the LSU System or at another institution must have official records sent from these institutions before an admission decision can be made. These transcripts are required regardless of whether credit was earned or whether transfer of credit is desired. Failure to acknowledge such attendance and failure to submit transcripts may result in cancellation of registration. See “Undergraduate Transfer Students” for computation of grade-point average.

If a student has been suspended for academic or other reasons, or if there is any irregularity in the academic record, it may be necessary to discuss the record with the dean of the appropriate college or with an admissions committee. If sufficient time does not exist for a thorough examination of the record, admission cannot be granted.

Students whose last enrollment was in the LSU System or who have scheduled one-half or more of the total semester hours of college-level credit attempted in the LSU System are considered for readmission if they meet scholastic requirements for continuing students on this campus. Students previously enrolled in the LSU System who have subsequently attended another institution must meet requirements for admission as transfer students if more than one-half of the total college-level credit attempted were taken at other institutions.

Summer-Term-Only Applicants

Students enrolled in another college or university who are eligible to continue in that institution in the fall may register as summer-term-only students. Such enrollment will terminate at the end of the summer term and does not presuppose or constitute admission to the University for a regular semester. Summer-term-only students may submit, in lieu of college records, a statement of eligibility to continue in the fall semester or quarter from the dean or registrar of the last school attended. This statement must include the total number of semester or quarter hours of credit previously earned. Students admitted on a summer-term-only basis who wish to be considered for regular admission in the fall must complete a new application for admission and must supply official transcripts of all college-level work previously taken.

Program for Adult-Special Students (PASS)

Adults who wish to schedule undergraduate part-time study, who have not been enrolled in high school or college during the past three calendar years, and who do not plan to work toward a degree, may be permitted to schedule courses for credit without submitting the usual scholastic credentials needed to determine admissibility to the University. An adult-special student may schedule as many as nine semester hours in a semester and may earn as many as 24 semester hours of credit in this status. Students who decide to work toward a degree or to continue their enrollment after having completed 24 semester hours in the adult-special status must apply for regular admission or an extension of PASS enrollment. Students applying for regular admission to the University must submit complete, official scholastic records from all institutions attended. Credit and grades earned in this program are used in determination of admissibility as regular students and are included in the student’s official record. Students in this program who are over 65 years of age receive a waiver of the University fee.

Students who plan to apply for veterans’ benefits or financial aid and international students must be enrolled in degree programs; thus, they do not qualify for PASS.

International Applicants

International students with superior scholastic records and English proficiency, as demonstrated by acceptable scores on recognized tests, are considered for admission as freshmen or as transfer students. Freshman applicants must be graduates of recognized secondary schools comparable in level to U.S. high schools. Beginning with the fall semester of 1988, applicants must complete the equivalent of 17½ required high school units (see “Freshmen”). Transfer students with less than 24 semester hours of acceptable college-level credit must meet both freshmen and transfer requirements. Factors considered in making the admission decision are grades earned, subjects
taken, and ability to carry a full course of study; scores on college entrance examinations such as the American College Test, the Scholastic Aptitude Test of the College Board, or the Prueba de Aptitud Academica; appropriateness of proposed field of study in relation to the applicant's general ability; and letters of recommendation.

Applicants whose native language is not English are required to submit a score of 500 or better on the Test of English as a Foreign Language (TOEFL). This is a test designed to evaluate proficiency in English and is administered at testing centers overseas and throughout the U.S. Information regarding this test may be obtained by writing to TOEFL, Educational Testing Service, Princeton, New Jersey 08541.

All students not previously enrolled at LSU will be required to take an English placement test prior to registration and to schedule, beginning in the first semester of enrollment, required courses in English as determined by this test.

Applications for the fall semester are not accepted after July 1, for the spring semester after November 1, and for the summer term after May 1. To be assured of an admission decision prior to registration, the following materials must be in the Office of Admissions at least 90 days before the beginning of the semester in which admission is desired:

1. application for admission;
2. a nonrefundable application fee of $50—check or money order (check must be drawn on a United States bank);
3. complete, official scholastic records;
4. scores on entrance examinations (if required); and
5. scores on the Test of English as a Foreign Language.

When sufficient scholastic records and acceptable evidence of English proficiency are not received early enough to determine admissibility for the semester for which application was made, consideration will be delayed until the following semester.

*International applicants are required to offer proof of the availability of sufficient funds to meet all costs while studying at the University.*

**ACADEMIC BANKRUPTCY**

Under specified conditions, undergraduate students who have interrupted their college careers for a period of at least five consecutive calendar years may, at the time of application for admission to the University, declare academic bankruptcy. Under this policy college-level work done at an earlier date is eliminated from computation of the grade-point average and cannot be applied toward a degree at LSU. Such work, however, will not be removed from the students' scholastic records and transcripts and will be used in the computation of grade-point average for honors and for admission to graduate and professional study. Students qualifying for academic bankruptcy are admitted on scholastic probation. Details of this policy may be obtained from the Office of Admissions.
Fees, Expenses, Scholarships, and Financial Aid

Student expenses, other than campus room, meals, and University and nonresident fees, will vary with the individual. A Baton Rouge area student living with parents or a student living on campus spends about $1600 in addition to fees, room, and meals per school year. An out-of-town student living off campus can expect to spend at least $5200 per school year for rent, food, clothing, laundry, cleaning, books and school supplies, transportation, entertainment, and incidentals. Married students spend approximately $11,550. Total first-year expenses for sororities, including some one-time fees, average $850; subsequent yearly costs are approximately $575. Monthly dues average $35. Costs for fraternities average $780 for the first year, which includes some one-time fees. Subsequent years average $650, not including room and meals. Monthly dues for fraternities average $60.

The Board of Supervisors may change fees and costs for meals and housing at any time and without advance warning. Students should check with the Office of Student Records and Registration, 112 Thomas Boyd Hall, (504) 388-1686, for up-to-date fee information.

The following is an approximation of what a student may expect to spend each semester for fees, room, and meals.

**Full-Time Fees/Semester**

<table>
<thead>
<tr>
<th></th>
<th>Louisiana residents:</th>
<th>Nonresidents:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergrads</td>
<td>$867; graduates, $870</td>
<td>Undergraduates, $2467</td>
</tr>
<tr>
<td>Veterinary</td>
<td>$1113</td>
<td>Graduates, $2470</td>
</tr>
<tr>
<td>medicine</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Room Rent**

<table>
<thead>
<tr>
<th></th>
<th>Residence halls, $410-948 per semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>University</td>
<td>University apartments, $201-273 per month</td>
</tr>
<tr>
<td>Fraternity</td>
<td>Fraternity houses, $500 (average) per semester</td>
</tr>
<tr>
<td>Sorority</td>
<td>Sorority houses, $1100 (average), including meals, per semester</td>
</tr>
<tr>
<td></td>
<td>For more information about room rent, contact the Department of Residential Housing, Assignment Office, 99 Grace King Hall.</td>
</tr>
</tbody>
</table>
Residence hall residents:
15-meal plan (Monday-Friday)—approximately $425 per semester
10-meal plan (Monday-Friday: two meals per day)—approximately $405 per semester
Summer term 15-meal plan—approximately $216
Summer term 10-meal plan—approximately $206
Fraternity houses, $425 per semester (average)
Off-campus meals, $4.25 per meal (average)

For more information about the meal plans, see the "Student Services and Organizations" section of this catalog.

**Fees and Expenses**

**APPLICATION FEE**

A *nonrefundable application fee* of $25 (check or money order) must accompany the application for admission. In addition to this fee, a *nonrefundable late application fee* of $15 is charged students who file applications after December 1 for the spring semester, after May 1 for the summer term, and after July 1 for the fall semester. The University is not responsible for cash sent by mail.

**STUDENT HEALTH SERVICE FEE**

All full-time students are required to pay a $30 student health service fee at registration. This fee entitles the student to use of the Student Health Center. No charge is made for professional services, while minimum charges are assessed for medicine, x-rays, and laboratory work.

Part-time students have the option of paying this fee which enables them to see a physician at the center without paying the $5 per-visit charge. This fee must be paid at registration.

**REGULAR SEMESTER FEES**

Included in University fees for full-time students are one subscription to *The Daily Reveille*, the campus newspaper; one class picture to be placed in the yearbook, the *Gumbo*, when the fees are paid for the fall semester; a copy of the *Gumbo* when the fees are paid for the spring semester; an allocation to the Student Government Association; admission to various athletic events when fees are paid for the spring semester; membership in the LSU Union; and reduced golf green fees at the LSU Golf Course. Student-imposed allocations in the regular semester University fee include a $14 mass transit fee, a $5 student sports recreation complex fee, a $2 "The Phone" fee, and a $2 KLSU radio fee. In addition, graduate students are assessed a $3 organization relief fund fee in both regular semesters; undergraduates are assessed $3 in the spring semester only. Student-imposed allocations in the summer term include a $8 mass transit fee, a $3 student sports recreation complex fee, a $1 "The Phone" fee, and a $1 KLSU Radio fee.

**Regular Semester—Undergraduate Students**

<table>
<thead>
<tr>
<th></th>
<th>FULL-TIME</th>
<th>PART-TIME</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>12 or more hrs.</td>
<td>10-11 hrs.</td>
</tr>
<tr>
<td><strong>Resident students:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee (nonrefundable)</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>University fee</td>
<td>827</td>
<td>570</td>
</tr>
<tr>
<td>Student health service fee</td>
<td>30</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$867</td>
<td>$580</td>
</tr>
</tbody>
</table>
### Fees, Expenses, Scholarships, and Financial Aid

**Nonresident students:**

<table>
<thead>
<tr>
<th></th>
<th>9 or more hrs.</th>
<th>7-8 hrs.</th>
<th>4-6 hrs.</th>
<th>1-3 hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration fee (nonrefundable)</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>University fee</td>
<td>827</td>
<td>570</td>
<td>445</td>
<td>325</td>
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<tr>
<td>Student health service fee</td>
<td>30</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Nonresident fee</td>
<td>1600</td>
<td>1315</td>
<td>975</td>
<td>680</td>
</tr>
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<td><strong>TOTAL</strong></td>
<td><strong>$2467</strong></td>
<td><strong>$1895</strong></td>
<td><strong>$1430</strong></td>
<td><strong>$1015</strong></td>
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</table>

**Regular Semester—Graduate Students**

<table>
<thead>
<tr>
<th></th>
<th>FULL-TIME</th>
<th>PART-TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Resident students:</strong></td>
<td>10 or more hrs.</td>
<td>7-8 hrs.</td>
</tr>
<tr>
<td>Registration fee (nonrefundable)</td>
<td>$10</td>
<td>$10</td>
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<tr>
<td>University fee</td>
<td>830</td>
<td>570</td>
</tr>
<tr>
<td>Student health service fee</td>
<td>30</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$870</strong></td>
<td><strong>$580</strong></td>
</tr>
<tr>
<td><strong>Nonresident students:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee (nonrefundable)</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>University fee</td>
<td>830</td>
<td>570</td>
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<tr>
<td>Student health service fee</td>
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</tr>
<tr>
<td>Nonresident fee</td>
<td>1600</td>
<td>975</td>
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<td><strong>TOTAL</strong></td>
<td><strong>$2470</strong></td>
<td><strong>$1555</strong></td>
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</tbody>
</table>

Graduate students registering for "exam only" will be assessed a $50 fee. An internship fee of $100 per course must be paid by all students enrolled in Social Work 5505, 5506, 7605, and 7606.

**Regular Semester—Veterinary Medicine Students**

<table>
<thead>
<tr>
<th></th>
<th>FULL-TIME</th>
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</thead>
<tbody>
<tr>
<td><strong>Resident students:</strong></td>
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<tr>
<td>Registration fee (nonrefundable)</td>
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<tr>
<td>University fee</td>
<td>1073</td>
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<tr>
<td>Student health service fee</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$1113</strong></td>
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</tr>
<tr>
<td><strong>Nonresident students:</strong></td>
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<tr>
<td>Registration fee (nonrefundable)</td>
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<td></td>
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<tr>
<td>University fee</td>
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<td>Student health service fee</td>
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<tr>
<td>Nonresident fee</td>
<td>3875</td>
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</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$4988</strong></td>
<td></td>
</tr>
</tbody>
</table>

A microscope fee of $40 per semester is assessed each student during Years I and II of the professional curriculum. No fees are assessed regularly admitted students in the summer of Year IV, regardless of the elective blocks taken.

Regularly admitted, nonresident students are accepted only from contract states. These students pay the same fees as residents of Louisiana, with respective states paying an additional increment as specified by contract. The nonresident fee is applicable only to visiting students from non-accredited colleges of veterinary medicine and other special nonresident students.
### SUMMER TERM FEES (1989)

#### Summer Term—Undergraduate Students

<table>
<thead>
<tr>
<th></th>
<th>FULL-TIME</th>
<th>PART-TIME</th>
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</thead>
<tbody>
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<td>6 or more hrs.</td>
<td>4-5 hrs.</td>
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<tr>
<td><strong>Resident students:</strong></td>
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<td></td>
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<tr>
<td>Registration fee (nonrefundable)</td>
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<td>$10</td>
</tr>
<tr>
<td>University fee</td>
<td>350</td>
<td>250</td>
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<tr>
<td>Student health service fee</td>
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<td><strong>TOTAL</strong></td>
<td>$378</td>
<td>$260</td>
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<tr>
<td><strong>Nonresident students:</strong></td>
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<td>Registration fee (nonrefundable)</td>
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<td>$10</td>
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<tr>
<td>University fee</td>
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<td>250</td>
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<tr>
<td>Student health service fee</td>
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<tr>
<td>Nonresident fee</td>
<td>800</td>
<td>565</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>$1178</td>
<td>$825</td>
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#### Summer Term—Graduate Students

<table>
<thead>
<tr>
<th></th>
<th>FULL-TIME</th>
<th>PART-TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6 or more hrs.</td>
<td>4-5 hrs.</td>
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<tr>
<td><strong>Resident students:</strong></td>
<td></td>
<td></td>
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<tr>
<td>Registration fee (nonrefundable)</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>University fee</td>
<td>350</td>
<td>250</td>
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<tr>
<td>Student health service fee</td>
<td>18</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>$378</td>
<td>$260</td>
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<tr>
<td><strong>Nonresident students:</strong></td>
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<tr>
<td>Registration fee (nonrefundable)</td>
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<td>$10</td>
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<tr>
<td>University fee</td>
<td>350</td>
<td>250</td>
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<tr>
<td>Student health service fee</td>
<td>18</td>
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<tr>
<td>Nonresident fee</td>
<td>800</td>
<td>565</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>$1178</td>
<td>$825</td>
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Graduate students registering for "exam only" will be assessed a $50 fee.

#### Zoology Short Course at Gulf Coast Research Lab

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<td><strong>Resident students:</strong></td>
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<td></td>
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<tr>
<td>Registration fee (nonrefundable)</td>
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<tr>
<td>University fee</td>
<td>329</td>
<td>329</td>
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<tr>
<td>Camp fee</td>
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<td>10</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>$349</td>
<td>$349</td>
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#### Geology Field Courses (Geology 3666 and 7666)

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<td><strong>Resident students:</strong></td>
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<tr>
<td>Registration fee (nonrefundable)</td>
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<td>$10</td>
</tr>
<tr>
<td>University fee</td>
<td>329</td>
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<td>Camp fee</td>
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<td><strong>TOTAL</strong></td>
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### Nonresident students:
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<th>Fee 3</th>
<th>Fee 4</th>
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<td>329</td>
<td>329</td>
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<tr>
<td>Nonresident fee</td>
<td>800</td>
<td>800</td>
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<tr>
<td>Camp fee</td>
<td>10</td>
<td>10</td>
<td>150</td>
<td>195</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>$1149</td>
<td>$1149</td>
<td>$1289</td>
<td>$1334</td>
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### SPECIAL FEES

#### Three-Week Summer Short Courses

Students enrolled in three-week summer short courses must pay the registration fee (nonrefundable), University fee, and nonresident fee (if applicable). These fees conform to the summer term fee schedule.

#### Audit Fees

Fees for auditing courses are in accordance with the "Regular Semester" and "Summer Term" fees. Maximum fee is $801 for the regular semester and $337 for the summer term. Fees for students enrolling for combined credit and audit work will be assessed in accordance with total hours scheduled.

#### Graduation Fees

1. Bachelor's degree fee, $30.
2. Master's degree fee, $40; thesis binding fee, $20.
4. Doctoral degree fee, $60; dissertation binding fee, $45 ($20 for D.M.A. degree).
5. Doctor of Veterinary Medicine degree fee, $40.
6. Duplicate diploma fee, $20 (charged if a diploma is ordered and student does not graduate at that commencement).

#### Motor Vehicle Registration Fee

All students (full-time, part-time, night, and auditors) who operate or expect to operate a motor vehicle on campus regularly or occasionally are required to register the vehicle with the Office of Parking, Traffic, and Transportation. A registration fee will be charged for each vehicle registered. The exact amount of this fee will be published each year in the *Traffic and Parking Regulations* issued by the Office of Administrative Services.

#### Fees for Special Courses

A small number of curricula and courses require the payment of additional fees. These fees are detailed in the college, school, or departmental listings or in the course descriptions.

#### Other Fees

1. Students registering for "degree only" pay no registration fee. (Such students must register through the Office of Student Records and Registration no later than the beginning of the semester or summer term when the degree is to be conferred.)
2. Candidates for graduate degrees registered for examination only, $50.
3. Departmental Proficiency and Advanced Standing Examinations: $20 per course in which credit by examination is sought. An additional $20 processing fee is assessed for each examination administered by the Measurement and Evaluation Center. These examinations are given free of charge to beginning freshmen who are participants in the Spring Testing, Pre-Enrollment Counseling, or Special International Student Testing programs, provided the
students complete the testing by the final date to add courses for credit during their first term of enrollment at LSU. All other students must pay the fees specified above.

4. Engineering cooperative work-study program, $50.

STUDENT ACCIDENT AND SICKNESS INSURANCE PLAN

A special plan is offered to students through an insurance company approved by the University. This coverage is strongly recommended to relieve students of possible financial strain in meeting expenses for medical services which the Student Health Center program does not provide. The University requires that all non-immigrant international students enroll in the LSU Student Insurance Program at the time of registration. Students enrolled in the School of Veterinary Medicine are required to have sickness and accident insurance coverage through enrollment in the University-sponsored plan, or to have proof of participation in an equal or better insurance program.

PAYMENT OF FEES

All fees and other University charges are due at the beginning of the semester or summer term. To facilitate payment of fees, it is recommended that the student use a cashier’s check, money order, or personal check. In unusual circumstances, deferred payment may be requested for part of the fees.

FEE EXEMPTIONS FOR PERSONS OVER 65

According to the provisions of Act 525 of the 1975 Louisiana legislature, persons over 65 years of age may enroll in college-level courses without paying the University fee. Further information may be obtained from the Office of Student Records and Registration.

FINANCIAL OBLIGATIONS TO THE UNIVERSITY

A student will be subject to being dropped from the University as a result of failure to pay fees and/or other charges when due or when a check offered by the student in satisfaction of an obligation to the University is not honored by the bank on which it was drawn. Due notice of the delinquency shall be given to the student by the Treasurer; there will be an insufficient funds charge of $10 per check.

REFUND OF FEES

1. Refund of the University fee, nonresident fee, and student health service fee will be made on the following basis upon official withdrawal of the student:
   a. before classes begin, 90 percent;
   b. during the first 10 days of classes* (first five days in summer term), 75 percent;
   c. from day 11 through day 24 of classes (day 6 through day 12 in summer term), 50 percent;
   d. from day 25 of classes (day 13 of summer term) to the end of the semester, none.
2. The registration fee is not refundable.
3. No refunds for resignations will be processed for at least six weeks after registration.
4. No refunds will be made to anyone who owes the University. Student-initiated resignations will not be completed until all money owed to the University is paid.
5. Field service and transportation fees will be refunded on an individual basis upon recommendation of the department concerned.
6. Reductions and increases of fees resulting from student schedule changes will be refunded or charged in accordance with the above schedule.
7. All full-time students who become part-time students after the last day to receive refunds will continue to be eligible for all student activity privileges.
8. Students in good standing at the University, registered in any semester or summer term, who volunteer for military service or who are called to active duty in the armed services before the day midsemester examinations begin will have the University fee, nonresident fee, and student health service fee refunded. Students in good standing at the University who volunteer

*"Days of classes" are days on which regular classes are scheduled.
for military service, or who are called to active duty in the armed services after midsemester examinations begin, will be refunded 50 percent of the University fee, nonresident fee, and student health center fee.

See also "Refund of Room Rent" in the "Student Services and Organizations" section of this catalog.

Scholarships and Awards

The scholarships and awards listed here are awarded chiefly on the basis of standardized test scores and the high school academic record. Only full-time students are eligible to receive or to continue to hold scholarships. Normally scholarship stipends are paid one-half during the fall semester and one-half during the spring semester.

SCHOLARSHIPS AVAILABLE TO ENTERING FRESHMEN

CHANCELLOR'S ALUMNI SCHOLARSHIPS

Candidates must have either an American College Test (ACT) composite score of at least 32 or a National Merit Selection Index score of at least 200, as well as an excellent academic record in high school. The students selected receive a cash scholarship from the LSU Alumni Association ranging from $9,200 to $14,400 ($2,300 to $3,600 per year) over a four-year period, an exemption from the payment of certain fees, and an offer to become a Chancellor's Student Aide and earn about $5200 ($1300 per year) working in a campus job tailored to the recipient's abilities and interests.

LSU MERIT SCHOLARSHIPS

Only National Merit Finalists who have indicated LSU as their first choice school are eligible for consideration. The 50 National Merit Scholars selected will receive:

1. A cash scholarship sponsored by the LSU Alumni Association amounting to at least $3000 ($750 per year) over a four-year period—possibly more in accordance with financial need.
2. Exemption from the payment of certain fees for a four-year period. For a Louisiana resident, this will be in the form of an LSU Honor Scholarship which will waive tuition. For an out-of-state student, this will be in the form of a Nonresident Fee Exemption Scholarship which will waive the portion of the out-of-state tuition which is in excess of tuition for Louisiana residents.
3. An offer to become a Chancellor's Student Aide and earn up to $5200 ($1300 per year) working in a campus job tailored to the recipient's abilities and interests.

LSU ALUMNI ASSOCIATION SCHOLARSHIPS

Excellent standardized test scores and an excellent high school academic record are required. Candidates who have American College Test (ACT) composite scores of 30 or higher will be given priority consideration. Each of the 100 recipients will receive:

1. A cash scholarship from the LSU Alumni Association in the amount of $3000 ($750 per year) over a four-year period.
2. Exemption from the payment of certain fees for a four-year period. For a Louisiana resident, this will be in the form of an LSU Honor Scholarship which will waive tuition. For an out-of-state student, this will be in the form of a Nonresident Fee Exemption Scholarship which will waive the portion of the out-of-state tuition which is in excess of tuition for Louisiana residents.
3. An offer to become a Chancellor's Student Aide and earn up to $5200 ($1300 per year) working in a campus job tailored to the recipient's abilities and interests.

LSU HONOR SCHOLARSHIPS AND LSU HONOR SCHOLARSHIPS FOR BLACK STUDENTS

To be eligible for consideration, an entering freshman must be a Louisiana resident, must have a commendable high school academic record, particularly in English and mathematics, and must
have a very strong ACT composite score. Students who are officially designated as National Merit or National Achievement semifinalists are also eligible for consideration. The 500 recipients of this award receive, for a four-year period, an exemption from tuition and an offer to become a Chancellor’s Student Aide and earn up to $5200 ($1300 per year) working in a campus job tailored to the recipient’s abilities and interests.

LSU HONOR SCHOLARSHIP FOR VALEDICTORIANS

High school students who are residents of Louisiana and who are certified as valedictorians by the high school and have at least a 25 ACT composite score are eligible for an exemption from the payment of tuition charges for four years, providing all academic requirements are met.

LSU HONOR AWARD FOR ROTC SCHOLARS

High school students who are awarded Air Force or Army ROTC four-year scholarships and students who are selected as “alternates” or “reserve scholarship holders” are eligible for a cash award of $5,200 ($1,300 per year) providing all ROTC requirements are met.

Application Procedure

To be considered for all of the above scholarships, high school students should:

1. Take the ACT or SAT no later than the December testing date of their senior year in high school and indicate LSU as one of their college choices. To do this, applicants must register for the test at least one month prior to the testing date. Registration material should be available in the counselor’s office at each high school. Students who took the ACT as juniors do not have to take the test again. Those students who become National Merit Finalists should indicate LSU as their first choice school.

2. Submit the LSU “Application for Undergraduate Admission and Scholarships,” along with a high school transcript, to the Office of Admissions as soon as possible after October 1 of their senior year.

OTHER SCHOLARSHIPS AND AWARDS

There are two types of scholarships listed below: those restricted to students according to their major or college and those which are open to all students regardless of their major or college. Both types, however, may be restricted to students of specified classification, place of residence, or some other characteristic consistent with the principles of equal opportunity and/or affirmative action. Requirements for scholarships that historically have been reserved for one sex are currently under review.

Applications for scholarships administered by the Faculty Senate Student Aid and Scholarships Committee may be obtained from the Office of Student Aid and Scholarships, 202 Himes Hall. All other applications, when required, may be obtained from the department or college listed in the description of the scholarship.

The description of each scholarship follows the same format: title; number given and annual amount of each, e.g. “(2:$300)” means that two scholarships are awarded per year at $300 each; any criteria or restrictions; and the group that determines which students will receive the scholarship. The following abbreviations are used in the scholarship descriptions:

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<tr>
<th>FR</th>
<th>SO</th>
<th>JR</th>
<th>SR</th>
<th>UG</th>
<th>GR</th>
<th>yr</th>
<th>gpa</th>
<th>SA&amp;S Com.</th>
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<td>junior</td>
<td>senior</td>
<td>undergraduate</td>
<td>graduate student</td>
<td>year</td>
<td>grade-point average</td>
<td>Faculty Senate Student Aid and Scholarships Committee</td>
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<td>East Baton Rouge Parish</td>
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</table>

Scholarships and Awards Restricted to a Particular Field of Study

Students interested in applying for the following scholarships and awards should check with the individual colleges for up-to-date information concerning amounts and requirements.
**Charles Stewart Churchill Memorial Scholarship** (9:$600) UG in Col. of Agr.; awarded by SA&S Com. on recommendation of Col. of Agr.

Charles M. Curtis Scholarship (1:$6000) Incoming FR/UG majoring in voc. teacher educ.; 2.5 gpa; awarded by Sch. of Voc. Educ.

Congressional Teachers’ Scholarship (37:$5000/yr. for 4 yrs.) Incoming FR or transfer student majoring in teacher educ.; 3.0 gpa; ACT of 22 or above; top 10 percent of LA high school graduating class; college gpa of 3.20; recipient must agree to teach for eight yrs.; awarded by state of LA.

Dairymen, Inc. Scholarships (2:$500) SOJR/SR majoring in dairy sci., agr. econ., or related dairy field; awarded by Dairymen, Inc.

Dairymen, Inc. Scholarship in Dairy Science (2:$500) UG in dairy sci., agr. econ., or other related dairy field; awarded by Dairymen, Inc.

Dairy Science Scholarship in Manufacturing (1:$500) UG in dairy sci. manufact.; 2.50 gpa; awarded by Dept. of Dairy Sci.

LSU Dairy Science Alumni Association Scholarship (1:$200) UG in dairy sci.; 3.00 gpa; awarded by Dept. of Dairy Sci.

M. N. Davidson Foundation Scholarship (1:$750) UG in indust. arts/tech. educ. option leading to training in building materials management; awarded by M. N. Davidson Foundation.

The Dixie Jubilee Horse Show, Inc., Scholarship (1:$1000) SR in Col. of Agr.; academic ability and financial need; must have at least 2.00 gpa; preference given to student majoring in animal sci.; must demonstrate professional or personal equine interest; awarded by Scholarship Com., Col. of Agr.

*Sibyl and Joseph Doré Memorial Scholarship in Agriculture (1:$2000) Outstanding FR in agr. econ., agr. bus., agron., food sci., or indust. and agr. techn.; highest gpa for first three yrs. at LSU; awarded by Col. of Agr.

Dow Chemical Company Agricultural Products Scholarship (1:$500) FR planning to major in plant sci., agr. econ./agribus., or agr. educ.; in top 25 percent of HS class; awarded by Col. of Agr.


*Marc Dupuy, Jr. Wildlife Conservation Scholarship (1:$500) LA high school graduate, preferably from Avoyelles Parish, planning to enter Sch. of For., Wild., & Fish.; awarded by Sch. of For., Wild., & Fish.

John East Memorial Scholarship (1:$400) UG in dairy sci. 2.5 gpa; awarded by Dept. of Dairy Sci.

C.W. Edgerton Honor Award (3:varies) Outstanding GR in plant path., crop physiol., or botany; awarded by Depts. of Plant Path./Crop Physiol. and Botany.

Fasting Agricultural Scholarship (1:$500) SOJR/SR in animal sci., dairy product., or prevet. med.; SO must have 2.50 gpa., others 3.00 gpa; awarded by Col. of Agr.

Farm Credit Bank of Jackson Scholarship (2:$1000) Entering LA resident FR enrolling in Col. of Agr.; awarded by Col. of Agr.
LSU Food Science Club Scholarship (varies) UG or GR majoring in food sci.; awarded by Dept. of Food Sci.


LSU Forestry, Wildlife, and Fisheries Alumni Association Scholarship (1:$200) SR in for.; awarded by Sch. of For., Wild., & Fish.

*Murphy J. Foster Scholarship (1:$500) UG in agr. pursuing study in sugar cane/soybeans; awarded by Col. of Agr.

4-H Club High School Activities Award (10:$300) Entering FR; based on competition at annual 4-H Club Short Course at LSU; awarded by Col. of Agr. on recommendation of state 4-H Club Agent.

J. B. Francioni, Jr., Scholarship (1:$1000) Outstanding Block and Bridle Club member; awarded by Block and Bridle Alumni Assoc.

*Joseph W. Freeland International Agriculture Scholarship (1:$1000) UG with direct interest in internat. agr.; awarded by Col. of Agr.

*J. B. Frye, Jr., Scholarship in Dairy Science (1:$1000) Entering FR planning to major in dairy sci.; 3.00 gpa; awarded by Col. of Agr.

Future Farmers of America High School Activities Scholarship (10:$300) 1st place winners in state FFA contests; awarded by Col. of Agr.

Future Homemakers of America Scholarship (1:$200) UG in home ec.; awarded by Sch. of Home Ec.

A. J. Gelpi, Jr., Scholarship in Dairy Manufacturing (1:$1000) UG in dairy manufact.; 2.5 gpa; awarded by Dept. of Dairy Sci.

Dr. Leslie P. Glasgow Memorial Scholarship (1:$1,000) Outstanding GR in wild. and fish.; preference given to student with high UG gpa and GRE scores, financial need, and leadership ability; awarded by Sch. of For., Wild., and Fish. and Louisiana Wildlife Biologists Assoc.

Goudchaux’s Erich Sternberg Memorial Scholarship (1:$300) SO from EBR majoring in merchand.; awarded by Sch. of Home Ec.

Goudeau Memorial Scholarship (1:$1000) Entering FR from Avoyelles or Rapides parishes intending to major in agr.; 3.00 high school gpa; ACT composite of 26; awarded by Col. of Agr.

John P. Gray Memorial Scholarship (2:$400) Outstanding JR/SR in agron. majoring in crop sci. or closely related field; awarded by SA&S Com. on recommendation of Dept. of Agron.

Norman M. Haigh Scholarship in Agricultural Education (1:$300) UG in agr. educ.; awarded by Sch. of Voc. Educ.

Norman M. Haigh Scholarship in Home Economics Education (1:$300) UG in home ec. educ.; awarded by Sch. of Voc. Educ.


William L. Hawthorne Memorial Scholarship (1:$1000) JR/SR in hort.; 2.75 or higher gpa; awarded by Dept. of Hort.

Travis P. Hernandez Memorial Scholarship (3:$500) UG in hort.; awarded by Dept. of Hort. and Col. of Agr.

*William Hopkins Memorial Scholarship (1:$200) UG in for.; awarded by Sch. of For., Wild., & Fish.

Dorothy C. Howell Alumni Scholarship (6:$600) Entering FR in home ec.; awarded by Sch. of Home Ec.

Hubbard Farms Poultry Science Scholarship (1:$750, UG; 1:$750, GR) UG and GR in poultry sci.; awarded by Dept. of Poultry Sci.

Industrial and Agricultural Technology Outstanding Senior Award (1:$100) Outstanding SR in indust. and agr. techn.; awarded by Dept. of Agr. Engr.

Tom Keaty Award (1:$50) Outstanding student in indust. arts/techn. educ.; awarded by Sch. of Voc. Educ.

Lakeshore Lions Club/LSU Collegiate FFA Chapter (1:$300) UG in voc. educ.; awarded by Sch. of Voc. Educ.

V. Fred Ledford Memorial Scholarship (1:$700) UG in dairy sci.; 2.5 gpa; awarded by Dept. of Dairy Sci.

Dean Lee Memorial Agricultural Scholarship (2:$400) Entering FR in Col. of Agr.; awarded by Col. of Agr.

Truett C. Lewis Memorial Scholarship (1:$600) UG in dairy sci.; 2.50 gpa; awarded by Dept. of Dairy Sci.

C. A. Lorio Memorial Scholarship (1:$250) UG in dairy sci.; awarded by Dept. of Dairy Sci.

Louisiana Agriculture Teachers Association Award in Vocational Agriculture (1:$150) Outstanding SR in Sch. of Voc. Educ.; awarded by LA Agr. Teachers Assoc.

*Louisiana Cowbelles—Emily Fairchild Memorial Scholarship (1:$500) JR in Col. of Agr.; 2.50 gpa; financial need; parent or grandparent must be member of the Louisiana Cattlemen’s Association; awarded by Col. of Agr.

Louisiana Forestry Foundation Scholarship (3:$1000) UG in for.; awarded by Louisiana Forestry Foundation.

*Louisiana Land & Exploration Co. Foundation Scholarship (1:$900) SR in wild.; awarded by Sch. of For., Wild., & Fish.

Louisiana Meat Industry Association Scholarship (1:$1000) JR/SR in agr. with current enrollment in or completion of at least one course in meats, meat processing, market poultry production, or live animal/carcass evaluation; awarded by Louisiana Meat Industry Assoc. Educ. Com. and Dept. of Animal Sci.

Louisiana Rural Rehabilitation Corporation Scholarship (12:15:$800) Entering FR planning to major in agr. or home ec.; member of LA farm family; financial need; awarded by Col. of Agr.

*Louisiana Seedsmen’s Association Scholarship (1:$400) Entering FR in some area of plant sci.; renewable to up 4 yrs.; awarded by Col. of Agr.

John E. Love Memorial Scholarship (1:$250) SR/GR in hort.; active member in LSU Hort. Club; 2.75 gpa (SR) or 3.25 gpa (GR); awarded by Hort. Club.

S. E. McCrae Scholarship (1:$1000) JR/SR in animal sci.; active member of Block & Bridle Club; awarded by Block & Bridle Alum. Assoc.

T. K. McKnight Memorial Scholarship (4:$1000) JR/GR in hort.; LA resident with 3.00 gpa; awarded by Dept. of Hort.


John J. Mikell Memorial Scholarship (1:$500) UG in hort.; active member of LSU Hort. Club; 2.75 gpa; awarded by Hort. Club.

*Funded through LSU Foundation.
Bob J. Miller Memorial Scholarship in Agronomy (1:$100) UG/GR in agron.; awarded by Dept. of Agron.

*Julian C. Miller Memorial Scholarship (2:$1000) JR/SR in hort.; awarded by Dept. of Hort. and Col. of Agr.

Clyde E. Mobeley Fellowship in Home Economics (1:$750) Outstanding GR in home ec.; preference given to LA resident; awarded by Sch. of Home Ec., Coop. Ext. Serv., and Home Ec. Div., State Dept. of Educ.

Laurie S. and Helen Nelson Mobeley Scholarship (1:$1000) Entering FR from Pointe Coupee Parish; awarded by Col. of Agr.

Moorman Manufacturing Company Scholarship (4:$1000) Entering FR in agr.; awarded by Col. of Agr.

Nicole Melissa Munn Memorial Scholarship (1:amt. to be determined) SR in family life and envir.; awarded by Sch. of Home Ec.

Nicole Melissa Munn Memorial Scholarship (1:$100) SR in hort.; 3.40 gpa or better in major subjects; awarded by Dept. of Hort.

R. J. R. Nabisco National Scholars in Agriculture and the Life Sciences (20:amt. to cover fee waiver and room and board, plus $500 book allowance per yr.; subject to renewal for 4 yrs.) Entering FR with scholastic and leadership qualities intending to major in agr. or life sci. at a NASULGC member university (LSU is a member); U.S. citizen; combined SAT of 1200 or ACT of 28 or higher; awarded by NASULGC.

Donald W. Newsom Scholarship (varies:$200) UG/GR majoring in hort.; awarded by Dept. of Hort.

L. D. Newsom Graduate Student Award (2:$1000) One master’s degree and one doctoral degree student in entom.; awarded by Dept. of Entom.

T. E. Patrick Scholarship (1:$1000) UG in dairy sci.; 2.50 gpa; awarded by Dept. of Dairy Sci.

Phi Kappa Phi Outstanding Senior Award (1:Certif.) SR with highest gpa; selected by dean, Col. of Agr.

Phi Upsilon Omicron Alumni Graduate Fellowship (1:$500) Full-time GR in home ec. with high gpa; awarded by Sch. of Home Ec. and Phi Upsilon Omicron Alum. Chapter.

Binnie Pelle Phi Upsilon Omicron Scholarship (1:$100) SO in home ec.; awarded by Sch. of Home Ec.

Lorraine H. Phillips Scholarship (1:amt. to be determined) Entering FR in home ec.; awarded by Sch. of Home Ec.

Poultry Industries of Louisiana Clyde Ingram Memorial Scholarship (1:$750) UG in poultry sci.; LA resident; awarded by Dept. of Poultry Sci.

Poultry Industries of Louisiana C. W. Upp Memorial Scholarship (1:$750) GR in agr. econ./agribus., agr. engr., or poultry sci.; awarded by Poultry Industries of LA.

Ralston Purina Scholarship (1:$750) Outstanding UG in agr.; awarded by Col. of Agr.

*Landrith & Nelda Reynolds Scholarship (1:$1000) SO in animal sci.; academic ability and financial need; awarded by Block and Bridle Club.

Rockefeller Scholarship (30-50:$1000) UG/GR majoring in for., wild., fish., or marine sci.; must comply with Act 807, 1980 La. Legislature; 2.50 gpa for high school and college; 2.00 or better gpa on college courses in major field; full-time student; renewable; awarded by Governor’s Special Comm. on Educ. Services.


Maud G. Ryder Scholarship (1:$300) UG in home ec.; awarded by Sch. of Home Ec.

H. C. Sanders Graduate Fellowship (1:$3000, plus fee waiver) GR in agr. educ.; awarded by Sch. of Voc. Educ.


Prentiss E. Schilling Outstanding Graduate Publication Award (1:$500 and plaque) GR who is senior author of research paper published in a recognized scientific journal the yr. prior to nomination; awarded by Col. of Agr.

Seedling and Sapling Club Scholarship (1:$200) Outstanding student in for., wild., & fish.; awarded by Seedling and Sapling Club.

Southern Business Education Association Scholarships (5:$500) UG in bus. educ.; completed one sem. of JR yr.; based on gpa, extracurricular activities; work experience; essay; chosen from 12 southeastern states; awarded by South. Bus. Educ. Assoc.

Southern Farm Equipment Manufacturers Scholarship (1:$300) FR planning to major in agr. engr.; awarded by Col. of Agr.

Southwestern Meat Packers Association Scholarship (1:$500) UG majoring in animal sci.; awarded by Southwest Meat Packers Assoc.

Suzanne Thompson Scholarship (1:$250) UG in home ec.; awarded by Sch. of Home Ec.

*Tolle-Fredriksen Scholarship (3:$600) SO/JR/SR in home ec. majoring in family life and envir. and/or home ec. educ.; 2.00 gpa; financial need; awarded by Sch. of Home Econ.

Clara Tucker Endowment Fund (2:$500) Full-time GR in home ec.; awarded by Sch. of Home Ec.

Morgan W. Walker Memorial Scholarship (1:$1000) UG in dairy sci.; 2.5 gpa; awarded by Dept. of Dairy Sci.

Louis Windham Memorial Scholarship (2:$250) SO in agr. engr., preferably in indust. and agr. techn.; 2.0 gpa; awarded by Dept. of Agr. Engr.

Woods and Water Club Scholarship (2:$500) JR/SR in Col. of Agr. or Col. of Desn; in for., wild., or an ecology-related area; awarded by SA&S Com. on recommendation of Col. of Agr. or Col. of Desn.

XI Sigma Pi Outstanding Sophomore Award (1:$500) UG in for.; awarded by Sch. of For., Wild., & Fish.

**COLLEGE OF ARTS AND SCIENCES**

Lillian Bourdier Top-100 Endowed Scholarship (2:varies) FR majoring in jour. or English (taking courses in jour.); awarded by SA&S Com.

*Chevron USA Journalism-Economics Scholarship (1:$1000) JR or SR in jour. with special interest in bus. and econ. reporting; awarded by Manship Sch. of Jour.

Communications Workers of America Scholarship (1:$750) JR in jour.; awarded by Manship Sch. of Jour.

*Margaret Dixon Journalism Award (1:$100 and silver bowl) SR female in jour.; media achievement; awarded by Manship Sch. of Jour.

Robert Ewing Scholarship (3:$800 plus fee waiver) JR in jour. who has attended LSU at least one yr. and has 3.00 gpa; awarded by Manship Sch. of Jour.

*Fund through LSU Foundation.
*Robert Gillkson Falk Student Travel Grants (varies) Meritorious jour. students; awarded by Manship Sch. of Jour.

*Walter Hitesman Scholarship (6:$250 per sem.) Jour. student having financial need and showing great promise as a journalist; awarded by Manship Sch. of Jour.

Henry V. Howe Memorial Scholarship Fund See College of Basic Sciences.

*Agatha LaCroix Award (1:varies) Outstanding student in Fren.; awarded by Dept. of French & Italian.

*Benjamin F. Leeper Memorial Scholarship (1:varies) JR in jour.; interest in photography; must have completed JOUR 2090 and 2151 and be taking JOUR 3065; 3.00 gpa; awarded by Manship Sch. of Jour.

Glady's Means Loyd (1:fee waiver for two sem.) JR/WR or female GR in theatre; academic ability and talent; awarded by theatre faculty.

Manship Merit Scholarship (8-12:$4000) Entering FR in jour. with superior scholastic record; top 5 percent of high school class; at least 26 composite score on ACT; National Merit Semifinalist or National Achievement Program Semifinalist; renewable; awarded by Manship Sch. of Jour.

Jules L. Mayeux Scholarship (1:up to $3000) SO student in program leading to career in telecommun.; at least 2.50 gpa in specified courses; apply in spring semester of sophomore yr.; renewable up to $6000; awarded by La. Assoc. of Broadcasters on recommendation of broadcast jour. faculty.

*Emil W. Mehrer Scholarship in Speech Pathology and Audiology (1:$1000) SR in speech path. and audiol.; awarded by the Speech and Hearing Clinic Com. on Scholarships and Financial Assistance.

*Mu Sigma Rho Outstanding Upperclassman Scholarship (varies) JR/WR in Col. of A&S; 3.50 gpa; awarded by Col. of A&S.

Police Jury Association of Louisiana Scholarship (1:$250) SR in poli. sci.; LA resident; graduate of LA high school; awarded by Dept. of Poli. Sci.

Bryan Putman Memorial Scholarship (1:$750) JR/WR in jour. with 3.00 gpa; awarded by Manship Sch. of Jour.

Corinne L. Sauzier Romance Language Scholarship (1:$870) Graduating as in Fren. or Spn.; for advanced study at LSU or in foreign country; preference to students planning to teach; awarded by Dept. of Fren. & Ital. and Dept. of For. Lang. and Lit.

*Claude L. Shaver Scholarship (1:fee waiver) JR/WR/GR in theatre; academic ability and theatre talent; awarded by theatre faculty.

*Joseph M. Silverberg Memorial Scholarship (1:varies) SR in news-editorial; 3.00 gpa; awarded by Manship Sch. of Jour.


WBRZ Equal Opportunity Scholarship (1:varies) JR in broadcast career field of study; LA resident; administered by broadcast jour. faculty in Manship Sch. of Jour.

Jean Wheeler Memorial Scholarship (1:$500) UG female with demonstrated interest in jour. and/or theatre; 3.00 gpa; awarded by L'Acadieen Chapter of American Women in Radio and Television, in consultation with faculty of relevant departments.

*Funded through LSU Foundation.

COLLEGE OF BASIC SCIENCES

*A. R. Choppin Scholarship (3:$1000) SOJR/SR in Col. of Basic Sci.; awarded by Col. of Basic Sci.

*A. R. Choppin American Legion and American Legion Auxiliary Scholarship (2:$1000) UG enrolled or planning to enroll in Col. of Basic Sci.; LA resident; former citizen of LA Boys' or Girls' State; awarded by Col. of Basic Sci.

Charles E. Coates Undergraduate Honor Award (1:$750, plus nonresident fee waiver) UG enrolled or planning to enroll in Col. of Basic Sci. with at least 3.00 gpa; awarded by Col. of Basic Sci.

*Copolymer Rubber and Chemical Corporation Foundation Scholarship (4:$500) UG in chem. with outstanding academic ability; awarded by Dept. of Chem.

*Monica Donellan Memorial Scholarship (1:varies) Financial need is primary consideration; applies to expenses of geol. field camp; awarded by Dept. of Geol. & Geophys.

*Dow Chemical Company Scholarship (4:$500) UG in chem.; awarded by Dept. of Chem.

*East Baton Rouge Parish Medical Society Premedical Scholarship (1:$500) JR/SR pursuing career as M.D.; awarded by Col. of Basic Sci.

Freshman Chemistry Award by Student Affiliate Chapter of American Chemical Society (3) Students with three highest scores on exam given in spring semester; open to all students registered for freshman chem.

I. H. Gottlieb Memorial Scholarship (1:$400) UG in chem. or chem. engr.; LA resident; awarded by Dept. of Chem. and Dept. of Chem. Engr., in alternate yrs.

Henry V. Howe Memorial Scholarship Fund (1:varies) Needly, outstanding FR in geol. or geog.; awarded by Dept. of Geol. & Geophys.

*Keen-Morris Prize (1:$50) Outstanding SR in phys. in Col. of Basic Sci.; awarded by Dept. of Phys. & Astron.

*Adrian Virginia Lazarus Memorial Scholarship (1:$400) UG in comp. sci.; 3.00 gpa; awarded by Col. of Basic Sci.


Marathon Oil Foundation Minority Scholarship (1:varies) UG in acc.; geol., or pet. engr.; awarded by SA&S Com.

John Wester Memorial Field Camp Scholarship (varies) JR/SR in geol.; financial need and academic record; awarded by Dept. of Geol. & Geophys.

New Orleans Geological Society Scholarship (1:$1000) JR geol. major; nominated by Dept. of Geol. & Geophys; awarded by N.O. Geological Soc.

Penzoll Exploration and Production Company Scholarship (varies) UG in geol.; awarded by Dept. of Geol. & Geophys.

*Laurice Sistrunk Memorial Scholarship (1:varies) SO in pet. engr. or geol. curriculum; awarded by SA&S Com. on recommendation of Dept. of Geol. & Geophys. or Dept. of Pet. Engr.

Major J. Stewart Slack, Jr., Memorial Scholarship (1:$500) UG in geol. or pet. engr.; LA resident; awarded by special committee on recommendation of Dept. of Geol. & Geophys. or Dept. of Pet. Engr.

Sun Exploration and Production Company Scholarship (varies) UG in geol.; high scholastic ability; one reserved for qualified female or minority student; awarded by Dept. of Geol. & Geophys.
COLLEGE OF BUSINESS ADMINISTRATION

American Bank & Trust Co. Scholarship in Honor of Mr. J. Clifford Oursou ($1,500) Student enrolled or planning to enroll in Col. of Bus. Adm.; scholarship, financial need, civic or community involvement; resident of EBR or adjacent parishes.

Arthur Andersen & Co. Award ($200) Most active member of Beta Alpha Psi; awarded by Dept. of Acct.

Paul and Ellen Arst Scholarship for the College of Business Administration ($1,000) JR/SR in risk and insurance curriculum; awarded by Scholarship Committee of Col. of Bus. Adm.

Association of Government Accountants—Baton Rouge Chapter Scholarship ($varies) JR/SR majoring in acct.; awarded by Dept. of Acct.

Bank of West Baton Rouge Banking Scholarship ($varies: $750) JR/SR majoring in commercial bank.; academic achievement; financial need; awarded by Scholarship Committee of Col. of Bus. Adm.

Lonnie H. Beary Scholarship ($varies) SO/JR acct. major; awarded by Dept. of Acct.

Beta Alpha Psi Award ($1,000) Certificate of merit to SR with highest overall gpa; U.S. Savings Bond to top-ranking JR acct. major; awarded by Phi Chapter of Beta Alpha Psi.

Capital Area Personnel Association Scholarship ($1,000) JR/SR majoring in acct. (human resources option); 3.00 gpa; apply each semester; awarded by Col. of Bus. Adm.

Capital Bank & Trust Co. Banking & Finance Scholarship in Honor of Mr. H. Hamric Holloway, Jr. ($1,000) JR/SR in fin. or commercial bank.; 3.00 gpa; LA resident; financial need; awarded by Scholarship Committee of Col. of Bus. Adm.

Capital Bank & Trust Co. Scholarship in Memory of Allison R. Kolb ($1,000) JR/SR in fin. with at least 3.00 gpa; awarded by Col. of Bus. Adm.

L. A. Champagne Memorial Scholarship ($1,000) SO acct. major; 2.70 gpa; renewable for three yrs.; awarded by Col. of Bus. Adm.

Quinn M. Coco Scholarship Fund ($varies) Student in acct. awarded by Dept. of Acct.

Coopers & Lybrand Award ($500) JR showing outstanding academic qualifications, extracurricular activities, leadership, and character; awarded by Dept. of Acct.

Tommy Doiron and Jimmy Webb Memorial Scholarship ($varies) SO with 2.50 gpa; financial need; awarded by Col. of Bus. Adm.

Ted F. Dunham Scholarship ($2,000) FR from Winn Parish entering Col. of Bus. Adm.; applicants must have a minimum ACT score of 18.

David Harper Garland Memorial Scholarship ($varies) UG in bus. adm.; academic ability; financial need; awarded by Scholarship Committee of Col. of Bus. Adm.

Hawthorne, Waymouth, and Carroll Scholarship ($2,500) SR acct. major who indicates ability to succeed in public acct. in the environment of the local practitioner; awarded by Dept. of Acct.

Paul and Theresa Hendershot Scholarship ($varies) SR in market.; 3.00 gpa; financial need; awarded by Col. of Bus. Adm.

Emmett Herring, Sr., Memorial Scholarship ($varies) JR/SR in risk and insurance; awarded by Scholarship Committee of Col. of Bus. Adm.

Mack H. Hornbeak Scholarship ($1,000) Outstanding student in Col. of Bus. Adm., preferably majoring in commercial bank. or fin.; financial need; awarded by Scholarship Committee of Col. of Bus. Adm.

IABC-Baton Rouge Business Communications Scholarship ($varies) SR in communications field; awarded by LSU Foundation.

Russell Lobdell Memorial Scholarship ($varies) SO with outstanding academic qualifications, financial need, and demonstrated qualities of leadership; graduate of a Baton Rouge high school; awarded by Col. of Bus. Adm.

Louisiana Consumer Finance Association Award ($2,500) JR/SR; awarded by Col. of Bus. Adm.

Louisiana Land and Exploration Scholarship ($1,000) Student in pet. land mgmt.; LA resident; awarded by Scholarship Committee of Col. of Bus. Adm.

Louisiana Motor Transport Association (Baton Rouge Chapter) Award ($1,400) FR planning to major in bus. adm.; awarded by SA&S Com.

Marathon Oil Foundation Minority Scholarship ($1,500) UG in acct., geol., or pet. engr.; awarded by Chancellor.

Mike McNeal Memorial Scholarship ($300) Entering FR planning to major in bus. adm.; graduate of Tara High School; 3.30 gpa in high school; 2.00 gpa to retain; awarded by SA&S Com. on recommendation by principal of Tara High School.

National Association of Accountants (Baton Rouge Chapter) Award ($1,300) SR/GR in acct.; awarded by Dept. of Acct.

James M. Owen Memorial Scholarship ($varies: $300) UG showing promise of attaining high personal and professional standards of Dr. Owen; awarded by Dept. of Acct.

Peat, Marwick, Mitchell & Co. Award ($1,300) Outstanding student in basic auditing course; awarded by Dept. of Acct.

Price Waterhouse & Co. Award ($1,500) Outstanding JR acct. major; awarded by Dept. of Acct.

Realtor Salesman Organization Scholarship ($2,250) SR in bus. adm. interested in real estate field; EBR resident with minimum 3.00 gpa; awarded by Dept. of Fin.

R. T. Reckling Memorial Scholarship ($1,440) JR in internat. trade and fin.; financial need; LA resident; 3.00 gpa; awarded by Dept. of Econ.

Society of Louisiana CPA's (Baton Rouge Chapter) Scholarship ($1,300) SR in acct.; awarded by Dept. of Acct.

Society of Louisiana Certified Public Accountants Medal (1) Medal presented to top ranking graduating SR in acct.; awarded by Dept. of Acct.
*Kitty B. Strain Endowed Scholarship (1:variables) JR/SR female; 3.00 gpa; awarded by Scholarship Committee of Coll. of Bus. Adm.

*Sun Exploration and Production Company Award (1:variables) Female or minority student in pet. land mgt.; awarded by Scholarship Committee of Coll. of Bus. Adm.

*W. Leroy Ward, Jr. & Sr. Memorial Scholarship (4:$700) JR in fin., banking, or related field; financial need; 3.00 gpa; EBR resident; awarded by Col. of Bus. Adm.

Arthur Young & Co. Award (2:$400) JR; outstanding M.S. student with emphasis in taxation; awarded by Dept. of Acct.

**COLLEGE OF DESIGN**

Alpha Rho Chi Medal (1) 5th-yr. student with outstanding service to school and/or profession.

American Institute of Architects Award (varies) Student in arch.; awarded by Nat. Am. Inst. of Architects through Sch. of Arch.

American Institute of Architects Medal (1) 5th-yr. student with outstanding professional abilities; awarded by Nat. Am. Inst. of Architects.

American Society of Landscape Architecture (1:$500) Based on scholarship and financial need; awarded by Sch. of Land. Arch.

Certificate of Merit, American Society of Landscape Architects (1) Outstanding SR in land. arch.; awarded by Sch. of Land. Arch.

Miriam Garic Barranger Scholarship (1:$1000 annually as funds become available) UG in ceramics; awarded by Sch. of Art.

Baton Rouge Art League Award (1:$250) JR/SG/GR in art with minimum 3.00 gpa; awarded by Sch. of Art.

Atwell E. Champion Scholarship (1:$500) UG in land. arch.; 2.50 or better gpa; awarded by Sch. of Land. Arch.

M. N. Davidson Foundation Scholarship (2:$250) Student in Sch. of Arch.; awarded by Sch. of Arch.

Dean's Medals (4) Outstanding graduate in arch., art, inter. desn.; and land. arch.; evaluation of portfolio and potential in professional field; nominated by faculty; awarded by dean.

*Terry Devine Memorial Scholarship (1:variables) 4th- or 5th-yr. student in arch.; awarded by Sch. of Arch.

*Caroline Durieux Scholarship (varies) UG in art; awarded by Sch. of Art.

Interstate Companies of Louisiana Award (2: varies) Outstanding JR/SG in inter. desn.; awarded by Inter. Desn.

*Alice Hovey Littlefield Memorial Scholarship (1:variables) Female UG in land. arch.; awarded by Sch. of Land. Arch.

Louisiana Garden Club Federation, Inc. Scholarship (1:$1000) Outstanding student in land. arch.; LA resident; based on scholarship and financial need; awarded by Sch. of Land. Arch.

McKay's Interiors Award (1:$250; 2:$150; 1:$100) Outstanding student in residential inter. desn.; awarded by Inter. Desn.

Mississippi-Louisiana Brick Manufacturers' Association Scholarship (1:$2,000) Award based on academic standing and financial need; awarded to fourth-yr. student by Sch. of Arch.

*Funded through LSU Foundation.

*Helen Adams Reich Memorial Scholarship (6:$500) Preference to nonresident UG in land. arch.; awarded by Sch. of Land. Arch.

Reynolds Aluminum Award (varies) Student in arch. on basis of design competition prize; awarded by Reynolds Aluminum Co. through Sch. of Arch.

*Root and Associates Scholarship in Graphic Design (1:$500) Student in graphic desn.; awarded by Sch. of Art.

Stanley and Craig Routh Scholarship (1:$300) Award based on financial need; gpa of at least 3.00; and excellence in graphics performance; awarded by Sch. of Arch.

Dixon Smith, ASD, College of Design Scholarship (1:variables) JR with demonstrated ability for interdisciplinary work and potential in profession; nominated by faculty; awarded by dean.

Woods and Water Club Scholarship See College of Agriculture.

Yarberry's Scholarship Fund (1:$125) JR in graphic desn.; awarded by Sch. of Art.

**COLLEGE OF EDUCATION**

AWARD

Sophomore Honor Award (1:$270) Outstanding SO in Col. of Educ.

**SCHOLARSHIPS**

*Paul and Ellen Arst Scholarship for the College of Education (1:$1000) JR/SG in special educ.; awarded by Col. of Educ.

City Presidents' Council of Alpha Delta Kappa Sorority Scholarship (1:$400) SO in Col. of Educ. with at least 3.00 gpa; awarded by Col. of Educ. and Alpha Delta Kappa.

*Association of Classroom Teachers of East Baton Rouge Parish Endowed Scholarship (1:variables) JR/SG in educ.; graduate of EBR high school; 3.00 gpa; awarded by Col. of Educ.

Marietta Boon Endowment Scholarship (1:variables) SR in Col. of Educ.; 3.00 gpa; unmarried; awarded by Col. of Educ.

Shirley Thomassee Johnson Memorial Scholarship (1:variables) SO/JR/SG in Col. of Educ. with at least 3.00 gpa; awarded by Col. of Educ.

Robert E. and Earleen Dryer Nolan Scholarship in the Col. of Educ. (1:$750) SR in Col. of Educ. with at least a 3.00 gpa, recipient can only receive once; awarded by Col. of Educ.

**COLLEGE OF ENGINEERING**

**AWARDS**

*Michael A. Clause Memorial Fund Award (1:variables) UG in civil engr.

*Chemical Engineering Junior Award (varies:$100) JR in chem. engr. with highest gpa at end of yr.; awarded by Dept. of Chem. Engr.

*Jesse Coates Award (1:variables) UG in chem. engr. who shows most outstanding leadership.

Dow Outstanding Junior Award (1:$1000) JR in chem. engr.; scholarship, activities, professionalism; awarded by Dept. of Chem. Engr.
Paul M. Horton Award (1:$300) Outstanding LSU chem. engr. graduate who enters LSU Graduate School.

*Pegues Award (1:medal and certificate) UG in civil engr.

*John J. Seip Memorial Scholarship Award (1:varies) UG in Dept. of Chem. Engr.; interest in sugar technology or energy conservation; awarded by Chem. Engrs. Awards Committee.

FRESHMAN SCHOLARSHIPS


Louisiana Chemical and Petroleum Industries Freshman Scholarships in Chemical Engineering (20:$500) FR in chem. engr.; awarded by Dept. of Chem. Engr.

Boykin and Mable Pegues Scholarship (20:$1000) FR in engr.; awarded by Col. of Engr.

OTHER SCHOLARSHIPS

*Ned Adler Memorial Scholarship (1:$1000) UG in mech. engr.; awarded by Dept. of Mech. Engr.

W. R. Aldrich Scholarship (3:$1000) UG in engr.; graduate of LA high school; need and academic achievement; awarded by Col. of Engr.

*Allied Chemical Scholarship (varies:$1000) UG in chem. engr.; awarded by Dept. of Chem. Engr.

Amoco Foundation Scholarship (varies:varies) UG in pet. engr.; renewable; awarded by Dept. of Pet. Engr.

Amoco Foundation Scholarship for Minorities (varies:varies) UG in pet. engr.; renewable; awarded by Dept. of Pet. Engr.


Baton Rouge Chapter of Louisiana Engineering Society Scholarship (1:$500) UG in engr.; nominated by Col. of Engr.

*Ben Burns Student Fund (varies) For SR student projects and/or scholarships in the Dept. of Mech. Engr.; awarded by Dept. of Mech. Engr.

CAMECO Award in Agricultural Engineering (3:$500) Student in agr. engr. or indus. & agr. techn.; 2.25 gpa; awarded by Dept. of Agr. Engr.

William J. "Bud" Carroll Scholarship for Civil Engineers (1:$1000) JR/SR in civil engr.; awarded by Dept. of Civil Engr.

Chevron Oil Company Scholarships in Chemical Engineering (varies:$1000) UG in chem. engr.; awarded by Dept. of Chem. Engr.


Continental Oil Scholarship in Chemical Engineering (varies:$1000) Minority UG in chem. engr.; awarded by Dept. of Chem. Engr.


B. C. Craft Memorial Foundation Scholarship (varies) UG in pet. engr.; awarded by Dept. of Pet. Engr.

*Henry Gilbert Scholarship (3:varies up to $2000) UG/GR in pet. engr.; preferably from New York area; awarded by Dept. of Pet. Engr.

*Michael Glassell Memorial Foundation Fund (2:$1000) UG in engr.; awarded by Col. of Engr., Interfraternity Athletic Council President, and 2AE president; apply to Col. of Engr.

Global Marine Drilling Company Scholarship (2:$2000) SO in mech., elec., or pet. engr. pursuing career in petroleum industry; renewable; awarded by Col. of Engr. every three yrs.

I. H. Gottlieb Memorial Scholarship See College of Basic Sci.

* Gulf South Compression Conference Scholarship (5:$1000) SO/JR/SR in chem., civil, elec., ind., mech., or pet. engr.; need and academic promise; awarded by Col. of Engr.

Gulf States Utilities Company Scholarship (1:$1200) UG in elec. engr.; awarded by Dept. of Elec. & Comp. Engr.

*R. L. Hartman Scholarship (1:$1000) JR in chem. engr.; 3.00 gpa; financial need; native Louisianian; awarded by Dept. of Chem. Engr.

*Industrial Engineering Sustaining Scholarship (varies:varies) UG in ind. engr.; awarded by Dept. of Ind. Engr.

Instrument Society of America Scholarship (2:$500) JR/SR in chem., elec., or mech. engr.; awarded by Col. of Engr.

International Paper Scholarship (1:$500) JR in chem., elec., or mech. engr.; need and academic promise; awarded jointly by Col. of Engr. and LES-BR.

*Kaiser Aluminum Scholarship in Chemical Engineering (varies:$1000) UG in chem. engr.; minority preference; awarded by Dept. of Chem. Engr.

*Kaiser Aluminum Scholarship in Industrial Engineering (varies:$1000) UG in ind. engr.; minority preference; awarded by Dept. of Ind. Engr.

*Kaiser Aluminum Scholarship in Mechanical Engineering (varies:$1000) UG in mech. engr.; minority preference; awarded by Dept. of Mech. Engr.

Louisiana Engineering Society, Baton Rouge Chapter Scholarship (1:$500) UG in engr.; need and academic promise; awarded jointly by Col. of Engr. and LES-BR.

*Louisiana Land & Exploration Scholarship in Civil Engineering (1:$960 JR; $1:960 SR) JR/SR in civil engr.; awarded by Dept. of Civil Engr.


Marathon Oil Foundation Minority Scholarship (1:$1500) UG in acct., geol., or pet. engr.; awarded by Chancellor.

Marathon Oil Company Scholarship in Chemical Engineering (3:$1100) UG in chem. engr.; awarded by Dept. of Chem. Engr.

Marathon Oil Company Scholarship in Petroleum Engineering (2:$1000) UG in pet. engr.; awarded by Dept. of Pet. Engr.

McDermott Corporation Scholarship (3:$1000) JR/SR in civil engr.; awarded by Dept. of Civil Engr.

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*Funded through LSU Foundation.
Monsanto Company Scholarship in Chemical Engineering (varies:$1000) UG in chem. engr.; awarded by Dept. of Chem. Engr.

National Lead Industries Foundation Scholarship (3:$1500) JR in engr.; one each in elec., mech., and pet. engr.; awarded by Col. of Engr.


Boykin and Mable Pegues Scholarship (5:$1000) UG in chem. engr.; awarded by Dept. of Chem. Engr.

Boykin and Mable Pegues Scholarship (15:$1000) UG in civil engr.; awarded by Dept. of Civil Engr.

Boykin and Mable Pegues Scholarship (15:$1000) UG in elec. engr.; awarded by Dept. of Elec. and Comp. Engr.

Boykin and Mable Pegues Scholarship (7:$1000) UG in ind. engr.; awarded by Dept. of Ind. Engr.

Boykin and Mable Pegues Scholarship (13:$1000) UG in mech. engr.; awarded by Dept. of Mech. Engr.

Boykin and Mable Pegues Scholarship (5:$1000) UG in pet. engr.; awarded by Dept. of Pet. Engr.


Phillips Petroleum Scholarship in Chemical Engineering (1:$1000) UG in chem. engr.; awarded by Dept. of Chem. Engr.

Schlumberger Foundation, Inc. Scholarship (2:$1500) JR/ SR in engr.; 1 awarded by Col. of Engr.; 1 awarded by Dept. of Elec. & Comp. Engr.

T. H. Scott Scholarship in Agricultural Engineering (2:$300) UG with 2.50 average in agr. engr. or indust. & agr. techn.; awarded by Dept. of Agr. Engr.

Major J. Stewart Slack, Jr., Memorial Scholarship See College of Basic Sci.

Society of American Military Engineers Scholarship (1:$500) ROTC/SAME member in engr.; awarded by Col. of Engr.


Society of Petroleum Engineers, South Louisiana Section Scholarship (1:$1000) UG in pet. engr.; awarded by Soc. of Pet. Engr.

Standard Oil of Ohio Scholarship (2:$1000) UG in pet. engr.; awarded by Dept. of Pet. Engr.

Sun Oil Company Scholarship (1:$1100) UG in pet. engr.; U.S. citizen; awarded by Dept. of Pet. Engr.

Tenneco Oil Company Scholarship in Chemical Engineering (varies:$1000) UG in chem. engr.; awarded by Dept. of Chem. Engr.

Tenneco Oil Company Scholarship in Petroleum Engineering (2:$600) UG in pet. engr.; awarded by Dept. of Pet. Engr.


Texaco USA Scholarship (1:$1000) UG in mech. engr.; academic achievement and need; awarded by Col. of Engr.

Texas Eastern Transmission Corporation Scholarship (2:$2500) UG in civil engr.; awarded by Dept. of Civil Engr.

*Transco Exploration Company Scholarship (1:$1000) UG in pet. engr.; awarded by Dept. of Pet. Engr.

Union Oil Company of California Foundation Scholarship in Petroleum Engineering (4:$750) UG in pet. engr. on basis of scholastic achievement; awarded by Dept. of Pet. Engr.

Vulcan Scholarship in Chemical Engineering (1:$1000) UG in chem. engr.; awarded by Dept. of Chem. Engr.

Louis Windham Memorial Scholarship (2:$250) SO in agr. engr. or indust. & agr. techn.; with 2.50 gpa; awarded by Dept. of Agr. Engr.

Woman’s Auxiliary to the Louisiana Engineering Society (Baton Rouge Chapter) Award (3:$700) UG in engineering from B. R. area; awarded by Col. of Engr.

*Woman’s Auxiliary to the Louisiana Engineering Society (New Orleans Chapter)—Samuel McCain Young Scholarship (1:$1000) UG in civil engr. from N. O. area; apply to Dept. of Civil Engr.

**GENERAL COLLEGE**

*Associated General Contractors of Louisiana, Inc. (varies:$500/yr.) SO in const.; selection based on need and association with construction industry; awarded by Dept. of Const.


*AGC Construction Industry Advancement Program of Lafayette and Vicinity Scholarship (2:$500) Full-time student in Dept. of Const. (30 hours completed) with satisfactory scholastic record; resident of Acadia, Iberia, Lafayette, St. Landry, St. Martin, St. Mary, or Vermilion; awarded by Acadian Chapter, AGC of Louisiana, Inc.

*AGC Louisiana Highway, Heavy, M-U Branch Scholarship (2:$1000) UG in const.; LA resident; awarded by Dept. of Const.

*Larry and Barbara Chachere Scholarship (2:varies) Full-time UG in gen. stud.; 36 hours in residence in division prior to receiving award; at least 3.00 gpa; awarded by Div. of Gen. Studies.

*General Studies Scholarship (2:varies) At least 36 hours in gen. stud. curriculum; full-time; at least 3.00 gpa.

Home Builders Association Ladies Auxiliary Scholarship in Construction (2:$320) Entering FR in const.; graduate of LA high school; awarded by the sponsor.

National Association of Women in Construction Scholarship (1:$500) Full-time female student recommended by professor; must have good gpa and plan to pursue a career in const.; awarded by Nat. Assoc. of Women in Const., B. R. Chapter No. 6.

*Louis and Lena Peranio Scholarship (2:$250) Student in gen. stud.; 36 hours in residence in the division prior to re-

*Funded through LSU Foundation.*
ceiving award; at least 2.50 gpa; awarded by Div. of Gen. Stud.

Tribble and Stephens General Contractors Scholarship (1:$1000) Student in const.; awarded by Dept. of Const.

*Floyd W. Womack, Sr., Scholarship (varies:$1000) Student in const.; awarded by Dept. of Const.

**JUNIOR DIVISION**

*Vincent E. Cangelosi Scholarship Fund (1:varies) FR with composite ACT score of 25 or above or SAT score of 1100 or above; awarded by Review Committee of JD.

*Elayn Hunt Scholarship (1:$200) Female FR who has completed 15 hrs. with 2.00 gpa; graduate of a LA high school; awarded by Review Committee of JD.

*Marjorie Longsdorf Memorial Scholarship (1:varies) FR enrolled as full-time student; graduate of Baton Rouge Magnet School; must plan to major in educ.; awarded by Review Committee of JD.

*Anthony J. Losavio Scholarship (1:$500) FR with composite ACT score of 22-28; awarded by Review Committee of JD.

*Tiger Town Mall Association Scholarship (1:$500) FR with composite ACT score of 22-28; graduate of LA high school; awarded by Review Committee of JD.

**SCHOOL OF MUSIC**

** AWARDS**

*Lucille J. Blum Award in Music (2:varies) Awarded to vocal and instrumental students receiving B.M. degree with highest gpa at graduation.

LSU Honor Award (1:$270) Awarded each yr. to student with highest academic record when entering the school from JD; renewable for total of 3 yrs.; must maintain at least 3.00 gpa.

Louisiana Federation of Music Clubs Honor Award (2:$25 fee exemption/sem.) High school student earning superior rating in voice, piano, or violin in State Competition Festival sponsored by LA Federation of Music Clubs; awarded on recommendation of dean.

Tiger Marching Band Award (varies:$640) Every Tiger Marching Band member eligible for cash service award at end of each fall semester; participation by audition only; full-time student with minimum gpa of 2.00.

**ANNUAL SCHOLARSHIPS**

Arthur Manly Culpepper Scholarship (1:$200) SR member of LSU band; awarded by Sch. of Music.

Galasso-Hermann Scholarship (Pi Kappa Lambda) (1:varies) Outstanding music student; awarded by Pi Kappa Lambda.

*Forrest F. Griffen Memorial Scholarship (varies) Outstanding UG/GR tuba or low brass student(s); awarded by low brass faculty.

*Funded through LSU Foundation.

D. H. Holmes Co., Ltd., Band Scholarship (1:$200) LSU band member; awarded by director of bands.

Byron Lamb Memorial Scholarship (varies) Awarded to a gifted incoming low brass student.

Music Activity Scholarship (varies) UG/GR; renewable; based on competitive auditions and academic standing; awarded by dean.

Baton Rouge Music Club, Marshall Peery Scholarship (1:varies) JR voice student, by audition; awarded by Baton Rouge Music Club.

Baton Rouge Music Club, Gertrude Bott Saucier Scholarship (1:varies) JR instrumental student, by audition.

LSU School of Music Distinguished Pianists Scholarship (2:varies) UG/GR; awarded to incoming student by annual competition.

Opera Guild of Baton Rouge Scholarship (2:varies) Outstanding voice student who is (or will be) enrolled in opera workshop; awarded by Sch. of Music.

Theodore Presser Foundation Scholarship (1:varies) UG in Sch. of Music who plans to teach music; awarded by Sch. of Music.

Earl Redding Memorial Prize in Musical Theatre (1:$500) UG/GR voice major; awarded by Sch. of Music.

Baton Rouge Rotary Club Scholarship (1:varies) Female voice student in Sch. of Music; awarded by Rotary Club.

Gertrude Bott Saucier Scholarship (varies) Academically and musically talented student; awarded by dean.

Oramay Welch Young Scholarship (varies) Awarded to gifted incoming violin student.

**ENDOWED SCHOLARSHIPS**

*Frank Collins Memorial Scholarship (1:varies) UG/GR organ major; awarded by Sch. of Music.

*Helen Libbey Cordiner Scholarship in Violin (1:varies) UG violin student; awarded by annual competition.

*Dr. Michael A. Galasso Memorial Scholarship (1:varies) UG incoming violin student; awarded by Sch. of Music.

*Polly Gibbs Scholarship (varies) Piano pedagogy student; awarded by Sch. of Music.

*L. Bruce Jones Memorial Scholarship (varies) UG/GR majoring in music education; excellent academic record; awarded by Sch. of Music.

*Kenneth Klaus Viola Scholarship (1:$500) String major in Sch. of Music; musical and academic ability and financial need; awarded by Sch. of Music.

*Allison R. Kolb Music Scholarship (varies) UG/GR in Sch. of Music.; awarded by Sch. of Music.

*Byron Lamb Memorial Scholarship (1:varies) Outstanding UG/GR tuba or low brass student; awarded by Sch. of Music.

Frank C. Page Memorial Scholarship (1:varies) UG/GR music major; awarded by dean.

Martha Sue Blain Stevens Memorial Scholarship (1:$350) UG in Sch. of Music; awarded by Sch. of Music.

*Barrett and Mae Stout Memorial Scholarship (1:varies) SR music student; distinguished gpa in music theory and lit.; awarded by Sch. of Music.
Scholarships and Awards not Restricted to a Particular College

*Mark Alcorn Memorial Scholarship (1:varies) Handicapped LA resident; awarded by SA&S Com.

Athletic Grants-in-Aid

Board of Supervisors Scholarship (varies:fee exemption, not to exceed $875 per semester for UG, GR: $975 for professional school students and $375 per summer term) UG/GR/professional student; awarded by Board of Supervisors and President of LSU System.

Boyd-Ewing Post 58 American Legion Scholarship (1:$100) UG entering advanced ROTC program; awarded by executive committee of Boyd-Ewing Post 58, on recommendation of Army or Air Force Commandant of Cadets.

Robert Stevens Butler Award (1:varies) Port Allen High School graduate with highest gpa during FR yr. at LSU; awarded by SA&S Com.

Nathaniel M. Caffee Freshman English Medal (1) Awarded for best theme written by student taking FR English; awarded by Freshman English Committee.

Nathaniel M. Caffee Memorial Scholarship (1:$320) UG; awarded by SA&S Com.

Campus Club Scholarship Award (1:$900) 2nd semester SO with gpa of 3.50 or better; son or daughter of persons eligible for Campus Club membership; awarded by SA&S Com.

*Capital City Kiwanis Club of Baton Rouge Scholarship (1:$600) Entering FR from E. B. R. Parish; awarded by SA&S Com.

Capitol Lodge No. 29, Knights of Pythias Memorial Scholarship (1:$800) Entering FR; awarded by SA&S Com.

George H. Deer Memorial Scholarship (1:$320) Awarded by SA&S Com.

Lucille May Grace Dent Memorial Scholarship (1:$100) Outstanding SO Army ROTC cadet accepted in advanced ROTC; awarded by special military science committee.

*A. Carl Duncan, Jr. Memorial Scholarship (1:varies) UG; 3.00 gpa to retain; awarded by SA&S Com.

*Leslie G. Gruber Scholarship (varies:$1000) Incoming TN high school graduate; academic ability.

*Leon Guerin—Al Evans Memorial Scholarship (1:$1000) LA high school graduate; academic ability and financial need; awarded by SA&S Com.

*Fannie Guy Memorial Scholarship (1:$600) Graduate of DeSoto Parish high school; awarded by SA&S Com.

Halbedel Trust Scholarship Fund (3:$600) UG needing financial assistance; awarded by SA&S Com.

Honor Student Honor Award (13:$270) Based on scholastic record; awarded on recommendation of student's dean.

**International Alumni Scholarship (varies) UG internat. student; awarded by Internat. Educ. Com., on recommendation of local alumni chapter.


*James M. Koencke Memorial Scholarship (1:$500) Entering FR; LA high school graduate; awarded by SA&S Com.

**LSU Alumni Association Leadership Scholarship

*Funded through LSU Foundation.

**Sponsored by LSU Alumni Association.

(1:$1000) Minimum ACT composite of 24; students who have excelled as leaders in their schools and communities.

LSU Kiwanis Club Scholarship (1:$200) Dependent of LSU faculty/staff entering SR college in fall semester; awarded by SA&S Com.

Louisiana Boys' State Honor Award; Louisiana Girls' State Honor Award (12:$300 FR yr. only) Awarded by director, Louisiana Boys' State and Louisiana Girls' State.


Louisiana State Science Fair Honor Award (1:$300 FR yr. only) Awarded by LA State Science Fair.

*Captain John Adrian Martin Memorial Scholarship (1:$500) Entering FR, graduate of Woodlawn High School (B.R., LA); awarded by SA&S Com. on recommendation of Woodlawn High School principal.

*Ben R. Mayer Memorial Scholarship (1:$250) UG; LA resident; awarded by SA&S Com.

*Mattye F. McGivney Memorial Scholarship (varies:$1000) SO/FR/SR; LA resident; awarded by SA&S Com.

*Anna R. Meyer Memorial Scholarship (1:$750) UG from Ouachita Parish; awarded by SA&S Com.

Ministerial Scholarship (varies:$25 fee exemption/sem.) Dependent children of ordained ministers serving in LA; awarded by Office of SA&S Com.

Chen Morrison Memorial Scholarship (1:$950) UG in pre-law; awarded by SA&S Com.

National Association of Teachers of French Scholarship (1:$300) Awarded by Nat'l. Assoc. of Teachers of French, LA Chapter.

*Governor James A. Noe Scholarship Fund (varies) Academically talented UG minority student; awarded by special committee.

*Vera Lee and Glen H. Olds, Jr., Scholarship (1:$1750) UG; awarded by SA&S Com.

Pasquale Porcelli Undergraduate Scholarship (2:$500) Advanced UG; awarded by Dept. of Math.

ROTC Scholarship See section below.

Gertrude Bott Sauzier Scholarship (35:$800) Awarded by SA&S Com.

Scholarship for Nonresident Sons and Daughters of LSU Graduates (varies:nonresident fee exemption not to exceed $350 per sem.) Entering FR with composite ACT of 19 or higher; or UG transfer student with a 2.50 or higher cumulative gpa.

Charles B. Sherrouse Scholarship (1:$500 & $600) Entering FR; Franklin Parish high school graduate; awarded by special committee.

State Literary Rally Honor Award (varies:$300 FR yr. only) Awarded to 1st place winners in LA State Literary Rally.

State School for the Blind Scholarship (varies: partial fee waiver) Graduates of LA State School for the Blind; awarded by Div. of Academic Serv. on evidence of eligibility.

SGA Research Scholarship (varies) All students, for funding of approved research projects; awarded by special SGA committee.

Undergraduate Scholarship for Children of Louisiana Po-
Graduate-Level Scholarships and Awards

For information on scholarships and awards for students in the Graduate School or professional schools, see the publications issued by those divisions.

ROTC Scholarships

Air Force ROTC Scholarships

The Air Force ROTC College Scholarship Program offers assistance to outstanding men and women who enroll in the Air Force ROTC program. Each scholarship provides for full payment of the University fee, nonresident fee, student health service fee, textbook expenses, laboratory and associated fees, and also includes a tax-free allowance of $100 each month during the period the student is in school and on scholarship status. (All students who enroll in the last two years of the Air Force ROTC curriculum receive this $100 per month allowance regardless of their scholarship status.) Both male and female high school students are eligible for the four-year scholarship program if they make application prior to December 15 of their senior year. For application procedures, interested students should write the summer prior to their senior year to Air Force ROTC, Det. 310, P.O. Box 25126, LSU, Baton Rouge, LA 70894. Selection is based on results of the CEEB Scholastic Aptitude Test or American College Test, high school academic record, extracurricular and athletic activities, personal references, and on meeting medical standards for a commission. Four-year scholarship recipients are also awarded $1,300 per year, in addition to the Air Force benefits. All four-year AFROTC scholarship recipients must enroll in specific academic disciplines. (These will be identified when a scholarship application is requested.)

Freshmen who are enrolled in Air Force ROTC may compete for four-year (if in five-year curriculum), three and one-half year, or three-year scholarships. Sophomores who are in or intend to enter Air Force ROTC may apply for two and one-half year or two-year scholarships. These scholarships are available to students on a merit basis for a variety of professional, engineering, scientific, and technical studies at the undergraduate level. Scholarship winners in pre-health receive their professional and graduate training at Air Force expense. Interested students should contact the Professor of Aerospace Studies, Air Force ROTC Detachment 310, LSU.

Army ROTC Scholarships

The Army ROTC Scholarship Program is designed to offer financial assistance to outstanding men and women who are interested in the Army as a career. Each scholarship provides for the University fee, nonresident fee, student health service fee, books, laboratory fees, other educational expenses, and $100 per month subsistence allowance for up to 10 academic months each year the scholarship is in effect.

Scholarships may be awarded for two to four years. Four-year scholarships are open, on a competitive basis, to high school seniors. In addition to the benefits provided by three- and four-year scholarships, LSU will award the recipient $1,300 per year. Applications for four-year scholarships must be completed and returned prior to December 1 in the student’s senior year in high school. Applications may be obtained by writing Army ROTC Scholarship, LSU, P.O. Box 25099, Baton Rouge, LA 70894-5099. The three- and two-year scholarships are open, on a competitive basis, to all qualified freshmen and sophomores. Applications for these scholarships are obtained from the Professor of Military Science.

For most of the scholarships, a student can expect to incur an active duty obligation upon graduation and commissioning.

Navy ROTC Scholarships

The National Competition Navy ROTC Scholarship Program is designed to provide four, three, or two years of financial assistance to outstanding young men and women working toward the
bachelor's degree. NROTC scholarships provide for the University fee, nonresident fee, books, laboratory fees, and $100 per month subsistence allowance.

Interested students should apply to the NROTC Navy-Marine Corps Scholarship Program, P.O. Box 5909, Washington, D. C. 20014 before December 1 or contact their local Navy recruiter.

LSU students who join the Naval ROTC Program at Southern University become eligible to compete for NROTC scholarships while actively participating in the program. These scholarships are awarded following each semester's performance. The Professor of Naval Science nominates students enrolled in the NROTC college program based on their demonstrated academic performance and aptitude for service as commissioned officers in the U.S. Navy or Marine Corps. Midshipmen may choose the Marine Corps option prior to beginning their junior year.

Additional information may be obtained by contacting the Professor of Naval Science, NROTC Unit, Southern University, Baton Rouge 70813; telephone (504) 771-4370 or (504) 389-0250. Students incur no obligation while participating in the freshman and sophomore years of NROTC. There is no additional cost to LSU students to cross-enroll in the NROTC Program.

FINANCIAL AID PROGRAMS

The Office of Student Aid and Scholarships administers a number of federally funded financial aid programs to help students to continue their education. All such programs are subject to regulations authorized by the United States Department of Education, as well as university policies consistent with these federal regulations.

Such programs include Pell Grants, Supplemental Educational Opportunity Grants, State Student Incentive Grants, Perkins Loans, Guaranteed Student Loans and the College Work-Study Program. For information on how to apply for these programs, consult the publication, "LSU Financial Aid and Scholarships."

In order to receive financial aid, a student must be making satisfactory academic progress. The University normally views any student who is not on academic probation and who meets the requirements for retention in a degree program under the scholastic regulations of the University as being in good standing and making satisfactory academic progress. For the purpose of participating in any of the Federal student aid programs for which the University selects recipients, in addition to not being on academic probation, a student must meet the following requirements:

Undergraduates (freshmen, sophomores, juniors, seniors): The maximum time frame allowed for earning a baccalaureate degree (including any remedial courses) shall be seven years of full-time academic work on the LSU campus. In accordance with this, an undergraduate shall be expected to earn at least an average of nine hours of credit for each semester when classified as a full-time student or a proportionate number of hours (usually 75 percent of hours carried) of credit when classified as a part-time student. This will apply to each academic year in which the student is enrolled as well as to the student's entire academic history on the LSU campus.

Graduate students: Consult the Graduate School Catalog.

Professional school students: Consult publications issued by those divisions.

Appeals

If the Office of Student Aid and Scholarships has ruled that an applicant or recipient is not making satisfactory academic progress, that student may appeal if the student believes that the academic record has been incorrectly evaluated or if mitigating circumstances (such as illness or death in the family) have affected the student's academic performance. Such appeals should be directed to the Office of Student Aid and Scholarships.

Re-instatement

Any student who has been disqualified from participating in student financial aid programs because of academic reasons may re-apply for such aid as soon as that student meets the prescribed standards for satisfactory academic progress.

OTHER AID PROGRAMS

Supplemental Loans for Students and Parents

Parent Loan Program for Undergraduate Students—allows parents to borrow up to $4,000 per year at an interest rate up to 12 percent. The aggregate loan limit is $20,000. The repayment period begins on the day the loan is disbursed. The first installment to the lender is due within 60 days of that date.
Supplemental Loans for Students—are available to graduate and professional school students, as well as undergraduate independent students. This program allows students in these categories to borrow up to $4,000 per year at an interest rate up to 12 percent. The aggregate loan limit is $20,000. In-school deferment of principal is available; however, arrangements for payments of interest must be made with the lender.

Contact the Office of Student Aid and Scholarships for applications for these loan programs.

Campus Employment Not Based on Need

Those students who want to work on campus, but do not qualify on the basis of financial need, can look for regular student employment by contacting various departments on campus. These departments reserve a certain amount of their budget for competent students who are willing to work. Only full-time students are eligible to hold campus jobs. Graduate students should inquire about the availability of assistantships in their departmental offices.

Short-Term LSU Loans

Hiram Student Loan (Short-Term)

Full-time students classified as second-semester freshmen or higher, may apply for short-term Hiram Student Loans for up to $100 ($200 for graduate/professional school students). Students must not be on scholastic probation to receive these loans. Loans are made starting on the first day of registration and continuing for two weeks after registration. Students are permitted a maximum of 60 days to repay the loan in full. A two-percent service charge is assessed on the amount borrowed. This two-percent service charge is equivalent to an annual interest rate of 12 percent. Hiram Student Loans are to be repaid at the Treasurer’s Office, 125 Thomas Boyd Hall, on or before the maturity date shown on the promissory note signed by the student at the time the loan was negotiated. Students who fail to repay the Hiram Student Loan by the maturity date may jeopardize their chances of making future loans. Accounts that must be turned over to LSU’s attorneys for collection are assessed an additional collection fee.

International Students

All international students who are interested in student aid should contact the International Student Office prior to receiving loans or working in jobs on campus.

STATE ASSISTANCE

T. H. Harris Scholarships, Rockefeller Scholarships, Education Majors’ Scholarships, and Paul Douglas Teaching Scholarships are available at all state-supported public colleges and universities. Correspondence and request for applications should be addressed to the Governor’s Special Commission on Education Services, Scholarship Division, P.O. Box 44127, Baton Rouge, Louisiana 70804. Veterans’ Orphans Scholarships are awarded through the Department of Veterans’ Affairs of the State of Louisiana. Vocational Rehabilitation Grants for disabled students are awarded through the Department of Vocational Rehabilitation, 1772 Wooddale Boulevard, Baton Rouge, Louisiana 70806.

VETERANS’ BENEFITS

The Office of Veterans’ Affairs, 112 Thomas Boyd Hall, provides counseling and information for veterans attending LSU. Enrollment certifications to the VA are handled through this office, and all veterans and eligible dependents of deceased or disabled veterans are urged to establish contact with the Office of Veterans’ Affairs when they arrive on campus. New students who wish to receive advance pay should notify this office at least 30 days prior to registration.
Student Services and Organizations

The University is committed to the concept of student growth and development through active participation in co-curricular activities and organizations. Through participation, it is expected that students will maintain and develop their physical and mental health, their sense of self-worth, their ability to work with and lead others, their understanding of citizenship obligations, their ethical and moral value system, their concern for the campus environment, and a sense of belonging to the University community. In order to foster the development of these qualities, a comprehensive program is offered. Further information may be obtained from the Office of the Vice-Chancellor for Student Affairs, 117 David Boyd Hall.

RESIDENTIAL HOUSING

Campus housing facilities consist of residence halls for men, residence halls for women, fraternity houses, sorority houses, and University-owned apartments. Three living plans provide students in residence halls with as much flexibility as possible in choosing a plan to suit individual needs and lifestyles. The University has established limits within each living plan, but residents may set up guidelines by majority vote within their buildings.

University housing is available to all full-time and part-time students on a voluntary basis, with specific room assignments based on the date of application for University housing and the terms of the housing contract.

Residence Hall Applications

To apply to live in a residence hall, a student must submit a completed application form to the Department of Residential Housing, 99 Grace King Hall. An application and related information may be obtained directly from this office or by indicating on the application for admission form a desire for information about on-campus housing. Acceptance of a residence hall application or receipt of an assignment is not a commitment of admission to the University. An application for admission must be submitted to and approved by the Office of Admissions before a room assignment is official.

A reservation fee of $75—payable to LSU in U.S. funds by check or money order—must accompany each residence hall application. Acceptance of a reservation fee does not guarantee an assignment.
Cancellation of an application/assignment must be submitted in writing to the Department of Residential Housing, Assignment Office. If the cancellation is received by July 1 for the fall semester, December 15 for the spring semester, or May 15 for the summer term, a processing fee of $10 will be deducted from the reservation fee, and the remainder will be refunded. If the cancellation is received after July 1 for fall, December 15 for spring, or May 15 for summer, or if the assignment is not claimed during registration, the entire reservation fee will be forfeited unless all requirements for evaluation of the application for admission have been met, and admission has been denied.

The University reserves all rights in connection with assignment of rooms, inspection of rooms with notice, and termination of occupancy of rooms. Reservations are not transferable. If the room is not occupied by the last day of registration, the reservation is forfeited unless notification stating the time of late arrival has been received. Other terms of residence hall occupancy are provided in the housing contract. Room reservations in fraternity or sorority houses are limited to eligible members of those organizations, and are made directly with the organization.

Residence Hall Rates

Student living quarters are provided for approximately 3265 men and 3575 women in both air conditioned and non-air conditioned residence halls. Rates for the 1987-88 academic year ranged from $410 to $948 per semester for each occupant of a room occupied to its normal capacity. A student living in a room which is not filled to normal capacity will be expected to pay an additional rental charge or to move to another room at the same rental charge in the same residence hall. Students occupying rooms filled over normal capacity will have a refund made depending on the type of accommodation. Rooms are available for single occupancy. The charge for single occupancy of a two-student room is 1.5 times the semester rate for full occupancy. Semester rental rates are subject to change at the beginning of a regular semester or summer term.

Residence hall rent is payable at registration. Further information concerning residence hall accommodations may be obtained from the Department of Residential Housing, Assignment Office, 99 Grace King Hall.

University Apartments

The University has 576 two- and three-bedroom apartments that are available for families and for single, upperclass, and graduate full-time students. Rental rates for the 1987-88 academic year ranged from $201 to $273 per month. Information on this type of housing is available from the Department of Residential Housing, Assignment Office, 99 Grace King Hall.

REFUND OF RESIDENCE HALL RENT

Students contract for space in a residence hall on a semester basis. The contract is effective as of the date the student pays fees or defers payment of fees during registration for classes at the start of a semester or summer term. Refund of room rent will be made according to the guidelines below. For further details, contact the Department of Residential Housing, Assignment Office, 99 Grace King Hall.

1. A student who moves from one space to another in a residence hall or from one residence hall to another will be refunded or charged the difference, if any, between the unused prorated portions of rent for the two spaces.
2. A student who moves out of a residence hall and resigns from the University will be refunded 75 percent of the unused prorated portion of rent for the space he or she was occupying.
3. A student who moves out of a residence hall without resigning from the University will be refunded 25 percent of the unused prorated portion of rent for the least expensive space on campus plus the difference, if any, between the unused prorated portion for the space he or she was occupying and the least expensive space.
4. A student who moves out of a residence hall into a fraternity or sorority house before the close of business on the last day of the regular registration period will be refunded all of the unused prorated portion of rent for the space he or she was occupying. If such a move is made after the last day of regular registration, the student will be refunded as in Item 3, above.
5. A student who is required to move out of a residence hall as a result of disciplinary action, for the convenience of the University, or is withdrawn for psychiatric reasons will be refunded all of the unused prorated portion of rent for the space he or she was occupying.

MEAL PLAN

Students are offered the choice of a 15-meal-a-week plan (Monday breakfast through Friday dinner on class days) or a 10-meal-a-week plan (any two of the three daily meals). The cost of the 15-meal plan is approximately $425 per semester; the 10-meal plan costs approximately $405. The cost of the 15-meal plan during the summer term is approximately $216; the 10-meal plan costs approximately $206. Meal plan rates are subject to change at the beginning of a semester or summer term. Special diet services are offered at Highland Cafeteria at an additional charge for students requiring diet modifications. A physician’s prescription is necessary.

Only newly enrolled full-time freshmen who live in University residence halls are required to participate in a University meal plan, except as provided below:

1. Part-time students as defined by this General Catalog.
2. Students who are released to participate in a fraternity or sorority meal plan on the basis of fraternity or sorority membership.
3. Students who have been employed full-time, including military service, for a period of 18 months prior to enrolling in the University and following high school graduation.
4. Students who have a conflict with work and class schedules which does not permit taking meals at the regular serving times and who cannot be otherwise accommodated by the Office of Residence Food Services.
5. Students with specialized medical diets prescribed by a physician which cannot be provided through the University food services.

Requests for exemptions on the bases described above should be submitted to the Director of Residence Food Services.

Any student who has completed one regular semester (excluding the summer term) is not required to participate, but is invited to do so. All other students, part-time or full-time, off-campus or on-campus, may also purchase a meal contract at the rates stated above.

Meal Plan Refunds

All students who sign up for the meal plan at registration will be required to participate for 10 class days. At the end of the 10 days, students qualifying for meal plan refunds can be released, and the 10 days of participation will be deducted from any refund. An assessment for three days of meals will be made if notice is not provided the cafeteria management prior to the end of the first 10 class days of the semester. Cancellation after midsemester will be subject to an assessment of half the unused portion of the meal plan charge. No release will be processed once dead week begins.

OFFICE OF THE DEAN OF STUDENTS

The Office of the Dean of Students, 114 David Boyd Hall, provides assistance to students in all aspects of their college experience. The four primary functions of this office are counseling, discipline, student organizations, and student problems.

CAREER PLANNING AND PLACEMENT CENTER

The Career Planning and Placement Center assists students in making career choices, exploring different career opportunities, and sharpening their job search skills. Vocational tests, individual counseling, computerized decision making, and a career information center are provided to help students make career decisions and/or to explore a career already chosen. Students are encouraged to gain work experience through programs such as cooperative education, summer work, part-time work, and internships.

In addition to the career decision and exploration services, the center provides extensive assistance with job search skills. Services include workshops, written and audiovisual materials, and personal counseling. The center also disseminates information concerning available jobs and handles all arrangements when employers visit the campus to interview students.
Cooperative Education

Cooperative education combines traditional on-campus academic course work with on-the-job training through employment in business, industry, or with a Federal agency. The cooperative program features work assignments with employers for majors in the Colleges of Basic Sciences, Business Administration, and Engineering. The goal of the program is the eventual employment of LSU students by providing them with reality-based, practical training that is sensitive to the actual demands of the job market.

The LSU Cooperative Education program is available to undergraduate students who have at least four semesters of academic work remaining. Additional requirements include:
1. Completion of the freshman year
2. A declared major
3. A 2.40 minimum grade-point average
4. A commitment by the student to complete a minimum of three work rotations, which normally include two regular semesters and one summer term.

Transfer students with good grades and who have at least four semesters of academic work remaining are eligible to apply for the cooperative program after one semester of full-time work at LSU.

HANDICAPPED STUDENTS

Students with a physical or mental impairment which requires special accommodation on the part of the University should contact the Assistant Vice-Chancellor for Student Affairs, 117 David Boyd Hall, (504) 388-8607, so that necessary arrangements can be made. Students who are Louisiana residents may also contact the Louisiana Office of Vocational Rehabilitation, P.O. Box 44371, Baton Rouge 70804, to inquire about benefits offered by the state to handicapped persons.

INTERNATIONAL STUDENT OFFICE

The International Student Office (ISO) is located in the International Center (Agnes Morris House) on Raphael Semmes Road. The office staff provides advisory services to international students regarding their educational, financial, immigration, personal, and social concerns; it also assists with campus intercultural activities which contribute to the cultural environment of the community. The ISO is responsible for approving admission of non-immigrant students on financial and immigration bases. The ISO prepares all documents necessary for international students to achieve or maintain proper non-immigrant status in the United States. All non-immigrant students seeking permission to work on or off campus must receive approval or recommendation from this office.

The office coordinates the University’s international student services and programs with community organizations, faculty and student groups, and governmental and private agencies. Emergency loans for international students and a limited number of partial scholarships for international freshmen with high ACT or SAT scores are also administered by this office.

The International Student Office provides information and counseling to LSU students who are interested in study, travel, or work overseas. The office also administers the International Student Exchange Program, awards grants for graduate study abroad (Fulbright Program), and issues international student ID cards.

STUDENT HEALTH CENTER

The Student Health Center provides quality health care to LSU students. Facilities include a large out-patient medical clinic, a full-service pharmacy, a laboratory, an x-ray department, and a wellness and health education department. As part of the health service fee paid during registration, students are entitled to unlimited visits to a physician. There are nominal charges for lab, x-ray, drugs, supplies, and mental health services. All charges offer a considerable savings over that offered in the private sector of health care.

The Student Health Center has six full-time family physicians and a full-time gynecologist. In addition, the Student Health Center has specialty clinics in orthopedics, internal medicine, dermatology, ear/nose/throat, eye, and physical rehabilitation. A dental exam clinic is available but no dental procedures are done on the premises. Routine allergy shots and injectable medicines ordered by physicians are provided.
Mental Health Services provide crisis intervention, individual therapy, group therapy, psychological testing and varied preventive therapy clinics on a continuing basis. The Mental Health Services are rendered by three full-time psychologists, a part-time psychiatrist, and counselors in psychology and social work. All of the health care providers in Mental Health Services are experienced in dealing with emotional problems and the stresses experienced by university students. The Student Health Center also operates an extensive Wellness and Health Education Program which provides a resource room and personal consultations regarding dietary problems, substance abuse, stress management, sex education, personal fitness, and many other areas of concern to university students. Group educational programs and presentations are available through the Wellness Program.

OFFICE OF STUDENT MEDIA

The Office of Student Media oversees the operation of KLSU-FM, The Daily Reveille, and The Gumbo. These provide information and entertainment to students, faculty, and staff while providing training for students interested in all areas of publishing and broadcasting. The Daily Reveille, the University's student-edited newspaper, is published Tuesday through Friday during the fall and spring semesters and on Tuesdays and Thursdays during the summer term. Students also edit and publish the LSU yearbook, the Gumbo, which is distributed on campus at the end of each spring semester. KLSU-FM is a 5000-watt educational FM station operated by students 24-hours a day, 7-days a week.

OFFICE OF LEISURE SPORTS

The Office of Leisure Sports provides all members of the University community with access to participation and involvement in a variety of leisure sports activities. To meet the diverse needs and interests of the University community, a multifaceted recreational sports program is offered which includes aquatics, intramural sports, drop-in recreation, special interest activities, outdoor recreation, and club sports. In addition, a wide variety of leisure sports equipment is available for use on a check-out or rental basis.

The aquatic program is designed to meet the needs of individuals interested in water activities. Utilizing certified personnel, guidance is given to all skill levels.

The intramural sports program provides various levels of competition in more than 46 different sports through leagues, tournaments, and meets. A balanced program of team, meet, dual, and individual sports is offered throughout the year. Some of these activities are flag football, basketball, softball, volleyball, racquetball, handball, tennis, badminton, swimming, track, golf, and floor hockey. The drop-in recreation program provides space for individuals who desire to participate informally in a sport. The special interest activities program is designed to serve particular recreational interests and needs. Programs vary in structure from self-motivated fitness activities to organized events. The outdoor recreation program which consists of three phases (equipment rental, resource center, and outdoor experience) provides individuals the opportunity to participate in a variety of structured and unstructured activities. The club sports program, composed of 13 active clubs, provides opportunities for exercise, recreational and social fellowship, competition both on and off campus, and learning new and improving existing skills. Some of the active clubs include rugby, soccer, fencing, water skiing, cycling, and three forms of martial arts. The office also maintains records, establishes schedules, develops and interprets rules and policies, and supplies officials as needed.

THE LSU UNION

The LSU Union, through its student committees and staff, presents a wide range of events designed to appeal to all segments of the University community. Full-time students are automatically members of the Union. Faculty, staff, alumni, and friends of the University may become members by paying an annual fee. All Union programs are sponsored by one of its committees. Any full-time student is eligible to join a committee; there are additional requirements to hold an office.

The Union's facilities are designed to meet the needs of the community they serve. In the Art Gallery may be found shows of international, national, or regional interest, as well as student and faculty works. The Arts and Crafts Shop provides professional instruction and complete facilities for woodworking, ceramics, matting and framing, poster and sign making, and photography. The
central lobby and main lounge provide space for relaxing and visiting. Auditorium facilities include the 333-seat Colonnade Theater and the 1,315-seat LSU Union Theater, which serve as a center of the performing arts at LSU. Many of the activities in these auditoria are sponsored by student committees. These committees and other student organizations have office or desk space in the Student Organizations Area (SOA) on the mezzanine floor. The Union Box Office serves as the sales and distribution center for tickets to all theater events on campus. The Games Area offers bowling, billiards, table tennis, card-playing, and a snack bar.

A three-chair barbershop, a student-operated candy store, an ice cream/yogurt shop, and a jewelry shop are located on the ground floor; a travel agency and copy service are on the main floor. The self-service Bookstore stocks required textbooks, school supplies, and convenience items. Photocopy services, located in the administrative offices on the mezzanine floor, are available at nominal rates to the University community. Lost and found services are provided at the main floor Information Desk. Newspapers, magazines, cigars, candy, and other sundry items are also available at the Information Desk. In addition, the Union has special services, such as coin-operated lockers, telephones, and metered parking lots for visitors. Check-cashing service is provided by the bookstore and box office.

Meeting and banquet facilities are available for use by campus organizations. The Union reservationist has complete information on reservation policies.

The Union administers all campus vending. The Tiger Lair and Cafeteria, located on the main floor, provide everything from quick snacks to full meals. The Plantation Room restaurant offers table service dining. The Union’s catering service furnishes on-premise banquet catering services for groups of 12 to 1000 persons and also specializes in receptions, teas, and other catered gatherings.

**PHI KAPPA PHI**

Phi Kappa Phi is a national scholastic honor society founded in 1897 and now contains 243 chapters nationwide. It is one of the most prestigious scholastic honor societies in the United States. The LSU chapter was founded in 1930 as the 43rd chapter in the nation. At the present time, the national office is located on this campus in the French House. The primary objectives of Phi Kappa Phi are to promote the pursuit of excellence in higher education and to recognize outstanding achievement by students and faculty through election to membership and through various awards and fellowships. Phi Kappa Phi is unique because it recognizes superior scholarship in all academic fields, rather than restricting membership to a limited field. Undergraduates and graduate students who rank in the top ten percent of their graduating classes may be invited to become members of Phi Kappa Phi. New LSU Phi Kappa Phi members are initiated and honored in the Spring Semester each year and wear identifying ribbons on their academic gowns at commencement exercises.

**STUDENT ORGANIZATIONS**

Student organizations are under the direct supervision of the Dean of Students, together with appropriate faculty committees.

**Religious Church Centers**

- Assembly of God
- Baha'i Club
- Baptist Student Union
- Campus Crusade for Christ
- Catholic Student Center
- (The) Chapel on the Campus
- Christian Church
- Christian Science Organization
- Church of Christ
- Church of God
- Church of Jesus Christ of Latter Day Saints
- Episcopal University Center (St. Alban's Chapel)
- Hillel Foundation (Jewish)
- Jehovah's Witnesses
- Muslim Student Association
- The Navigators
- Unitarian Church
- United Pentecostal Church
- University Baptist Church
- University Lutheran Chapel
- University Lutheran Church
- University Methodist Church
- University Presbyterian Church
- Uniting Campus Ministry (Methodist & Presbyterian)
- Young Life

**Religious Student Organizations**

- Campus Advance
- Chi Alpha Christian Fellowship
- Christian Fellowship Organization
- Deseret Club
- Inter-Varsity Christian Fellowship
- Living Waters Fellowship
Professional, Honorary, and Miscellaneous Organizations

A Cappella Choir
Accounting Society
African Student Organization
Agricultural Economics and Agribusiness Club
Agricultural Economics Association of Louisiana
Agricultural Mechanization Club
Agricultural Students' Association
Agronomy Club
Alcoholics Anonymous
Alpha Chi Sigma (chemistry)
Alcoholics Anonymous
Alpha Epsilon Delta (premedical, honorary)
Alpha Lambda Delta (freshman, honorary)
Alpha Phi Omega (service)
Alpha Pi Mu (industrial engineering, honorary)
Alpha Sigma Lambda (honorary)
Alpha Tau Alpha (agricultural education, honorary)
Alpha Zeta (agriculture, honorary)
American Advertising Federation
American Association of Bovine Practitioners
American Association of Equine Practitioners
American Association of Petroleum Geologists
American Association of Textile Chemists and Colorists
American Association of Zoo Veterinarians
American Chemical Society
American Civil Liberties Union
American Institute of Aeronautics and Astronautics
American Institute of Architectural Students
American Institute of Chemical Engineers
American Institute of Constructors
American Library Association
American Society of Agricultural Engineers
American Society of Civil Engineers
American Society of Heating, Refrigerating, and Air Conditioning Engineers
American Society for Personnel Administration
American Society of Interior Designers
American Society of Landscape Architects
American Society of Mechanical Engineers
American Society of Photogrammetry and Remote Sensing
American Society of University Composers
American Water Resources Association
Amnesty International of LSU
Angel Flight
Arab Students' Association
Army Bengal Raiders
Arnold Air Society
Art Students' Association
Arts and Sciences SGA
Associated General Contractors of America
Association for Computing Machinery
Association of the United States Army
BACCHUS (service)
Badminton Club
Ballet Ensemble
Band
Baton Rouge Neuroscience Association
BACCHUS
(LSU) Bengal Dive Club
Bengal Raiders
Beta Alpha Psi (accounting)
Beta Gamma Sigma
Black United Students
(LSU) Block and Bridle Club
Business Administration Leadership Council
Ceramic Art Students' Association
Chamber Music
Chemistry Department Graduate Student Association
Chemistry Graduate Student Council
Chi Epsilon (civil engineering, honorary)
Chinese Students' Organization
Circle K Club
College Democrats
College Republicans
Collegiate 4-H Club
Collegiate Organization for Diabetic Youth (CODY)
Collegium (honorary)
CONCERN (Council on Conservation of the Environment)
(LSU) Concert Ballet
Conflict Simulation Society
(LSU) Dairy Science Club
Data Processing Management Association
Decision Science Society
Delta Sigma Pi (business administration)
Delta Sigma Rho (debate)
Dietetic Association
Educational Freedom
(The) Engineering Council
(The) English Club
Entomology Club
Eta Kappa Nu (electrical engineering, honorary)
Educational Freedom
Eta Sigma Gamma
Filipino Students' Association
Food Science Club
Friendship Association of Chinese
Students and Scholars
Frisbee Club
Future Farmers of America
Gamma Beta Phi (honorary)
Gamma Sigma Delta (agriculture, honorary)
General College Student Council
Geography and Anthropology Society
Geoscience Associates
German Club (Der blabe Engel)
Graduate Association of Sociology Students
Graduate Library and Information Science
Student Association
Graduate Student Organization of Criminal Justice
Graphic Design Student Association
Guatemalan Student Association
(LSU) Gumbo Action Civitan Club
Home Economics Association
Honduran Student Association
Hong Kong Student Association
(LSU) Horticulture Club
Indian Student Association
Indonesian Student Association
Industrial and Technical Education Club
Institute of Electrical and Electronic Engineers
Institute of Industrial Engineers
Interfraternity Athletic Council
Interfraternity Council
International Association of Students in Economics and Business Management (AIESEC)
International Moslem Student Association
International Student Association
Intersorority Athletic Council
Journalism Association of Graduate Students
(LSU) Jui-Jitsu Club
Kappa Delta Epsilon (education)
Kappa Kappa Psi (band)
(LSU) Karate Club
La Dive Bouteille (French)
<table>
<thead>
<tr>
<th>Lambda Sigma Upsilon (criminal justice)</th>
<th>(LSU) Psychology Club</th>
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</thead>
<tbody>
<tr>
<td>Lambda Tau Epsilon</td>
<td>Public Administration Institute</td>
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<tr>
<td>Lebanese Club</td>
<td>Student Association</td>
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<tr>
<td>Linguistics Circle of LSU</td>
<td>Residence Hall Association</td>
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<tr>
<td>Louisiana Student Association of Educators</td>
<td>Rho Lambda (panhellenic, honorary)</td>
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<tr>
<td>Macintosh Computer User Group</td>
<td>Scabbard and Blade (military science)</td>
</tr>
<tr>
<td>Malaysian Students' Association</td>
<td>Science Fiction and Fantasy Association</td>
</tr>
<tr>
<td>Management Science Society</td>
<td>Scotch Guard (auxiliary ROTC)</td>
</tr>
<tr>
<td>Marine Environment Researchers</td>
<td>Second Chance Society</td>
</tr>
<tr>
<td>Master of Business Administration Association</td>
<td>(LSU) Service Council</td>
</tr>
<tr>
<td>Mauritius Student Association</td>
<td>Sigma Alpha Iota (music)</td>
</tr>
<tr>
<td>Mexican Student Association</td>
<td>Sigma Delta Chi (journalism)</td>
</tr>
<tr>
<td>Mortar Board (leadership)</td>
<td>Sigma Delta Pi (Spanish)</td>
</tr>
<tr>
<td>Moslem-Iranian-Student Society</td>
<td>Sigma Lambda Alpha (landscape architecture, honorary)</td>
</tr>
<tr>
<td>Mu Kappa Tau (marketing, honorary)</td>
<td>Sigma Lambda Chi (construction, honorary)</td>
</tr>
<tr>
<td>Mu Sigma Rho (arts and sciences, education, music, and economics majors, honorary)</td>
<td>Sigma Pi Sigma (physics, honorary)</td>
</tr>
<tr>
<td>Music Educators National Conference</td>
<td>(LSU) Slavic Club</td>
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<tr>
<td>Muslim Student Association</td>
<td>Social Work Student Association</td>
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<tr>
<td>National Home Builders Association</td>
<td>Society of American Foresters</td>
</tr>
<tr>
<td>(LSU) National Organization for Women</td>
<td>Society of American Military Engineers</td>
</tr>
<tr>
<td>(LSU) National Society for Black Engineers</td>
<td>Society of Engineering Technology</td>
</tr>
<tr>
<td>National Student Speech and Hearing Association</td>
<td>Society of Petroleum Engineers</td>
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<tr>
<td>Nicaraguan Students' Association</td>
<td>Society of Physics Students</td>
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<tr>
<td>Nigerian Student Association</td>
<td>Society of Women Engineers</td>
</tr>
<tr>
<td>(The) November 29th Committee for Palestine</td>
<td>Spanish and Portuguese Students' Association</td>
</tr>
<tr>
<td>Omega Rho (Operations Research Society)</td>
<td>Special Libraries Association</td>
</tr>
<tr>
<td>Omicron Delta Epsilon (economics, honorary)</td>
<td>Speech, Language, and Hearing Association</td>
</tr>
<tr>
<td>Omicron Delta Kappa (leadership)</td>
<td>Student Alumni Association</td>
</tr>
<tr>
<td>Omicron Nu (home economics, honorary)</td>
<td>Student Finance Association</td>
</tr>
<tr>
<td>Opera Chorus</td>
<td>Student National Art Education Association</td>
</tr>
<tr>
<td>Orchestra</td>
<td>(LSU) Students for Gay Awareness</td>
</tr>
<tr>
<td>Pakistani Students’ Association</td>
<td>Tau Beta Pi (engineering, honorary)</td>
</tr>
<tr>
<td>Panhellenic Council</td>
<td>Tau Beta Sigma (band)</td>
</tr>
<tr>
<td>Pershing Rifles</td>
<td>Tau Kappa Alpha (forensics)</td>
</tr>
<tr>
<td>Petroleum Land Management Association</td>
<td>Tau Sigma Delta (architecture, landscape architecture, allied arts of design)</td>
</tr>
<tr>
<td>Phi Alpha Theta</td>
<td>Transcendental Meditation Club</td>
</tr>
<tr>
<td>Phi Beta Kappa (liberal arts, honorary)</td>
<td>Tropical Geography</td>
</tr>
<tr>
<td>Phi Delta Kappa (education, honorary)</td>
<td>Troy H. Middleton Company (military)</td>
</tr>
<tr>
<td>Phi Eta Sigma (freshmen, honorary)</td>
<td>Turkish American Student Association</td>
</tr>
<tr>
<td>Phi Kappa Phi (all fields, honorary)</td>
<td>Ultimate Frisbee Club</td>
</tr>
<tr>
<td>Phi Lambda Upsilon (chemistry, chemical engineering)</td>
<td>Undergraduate Political Science Club</td>
</tr>
<tr>
<td>Phi Mu Alpha Sinfonia (music)</td>
<td>Undergraduate Student Association</td>
</tr>
<tr>
<td>Phi Upsilon Omicron (home economics, honorary)</td>
<td>Union Governing Board</td>
</tr>
<tr>
<td>Phi Zeta (veterinary medicine, honorary)</td>
<td>University Chorus</td>
</tr>
<tr>
<td>Philosophy Club</td>
<td>Upsilon Pi Epsilon</td>
</tr>
<tr>
<td>Pi Epsilon Tau (petroleum engineering, honorary)</td>
<td>Venezuelan Student Association</td>
</tr>
<tr>
<td>Pi Kappa Lambda (music)</td>
<td>Veterinary Medical Association</td>
</tr>
<tr>
<td>Pi Mu Epsilon (mathematics, honorary)</td>
<td>Vietnamese Student Association</td>
</tr>
<tr>
<td>Pi Sigma Alpha</td>
<td>West Indian Student Association</td>
</tr>
<tr>
<td>Pi Sigma Epsilon (marketing)</td>
<td>(LSU) Wildlife Society</td>
</tr>
<tr>
<td>Pi Tau Sigma (mechanical engineering, honorary)</td>
<td>Xi Sigma Pi (forestry, honorary)</td>
</tr>
<tr>
<td>Political Science Graduate Student Association</td>
<td>Young Americans for Freedom</td>
</tr>
<tr>
<td>Poultry Science Club</td>
<td>Zoology/Physiology Graduate Student Organization</td>
</tr>
<tr>
<td>(LSU) Pre-Dental Society</td>
<td>STUDENT GOVERNMENT:</td>
</tr>
<tr>
<td>Pre-Law Association</td>
<td>Residence Hall Association</td>
</tr>
<tr>
<td>(LSU) Pre-Veterinary Club</td>
<td>Student Government Association</td>
</tr>
<tr>
<td>Progressive Student Network</td>
<td></td>
</tr>
<tr>
<td>Psi Chi (psychology, honorary)</td>
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</tbody>
</table>

**GREEK ACTIVITIES**

The Greek Activities Office works with the Interfraternity and Panhellenic Councils to coordinate programs and activities of the two organizations. The office staff members also advise fraternities and sororities in the areas of program development, chapter management, and educational and social activities.
### Members of the Interfraternity Council

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<tr>
<th>Acacia</th>
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<tbody>
<tr>
<td>Alpha Gamma Rho</td>
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<tr>
<td>Sigma Nu</td>
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<tr>
<td>Sigma Pi (colony)</td>
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<tr>
<td>Tau Kappa Epsilon</td>
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<tr>
<td>Theta Xi</td>
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<tr>
<td>Zeta Beta Tau</td>
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<tr>
<td>Delta Tau Delta</td>
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<tr>
<td>Kappa Alpha</td>
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<tr>
<td>Alpha Phi Alpha</td>
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<tr>
<td>Alpha Tau Omega</td>
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<tr>
<td>Delta Chi</td>
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<tr>
<td>Delta Kappa Epsilon</td>
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<tr>
<td>Phi Delta Theta</td>
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<tr>
<td>Kappa Alpha Psi</td>
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<tr>
<td>Kappa Sigma</td>
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<tr>
<td>Lambda Chi Alpha</td>
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<tr>
<td>Omega Psi Phi</td>
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<td>Phi Beta Sigma</td>
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<td>Sigma Chi</td>
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<td>Phi Gamma Delta</td>
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<td>Phi Kappa Psi</td>
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<td>Phi Kappa Theta</td>
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<tr>
<td>Pi Kappa Alpha</td>
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<td>Sigma Alpha Epsilon</td>
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</tbody>
</table>

### Members of the Panhellenic Council

| Alpha Kappa Alpha              |
| Alpha Xi Delta                 |
| Chi Omega                      |
| Delta Delta Delta              |
| Delta Gamma                   |
| Delta Sigma Theta              |
| Delta Zeta                    |
| Kappa Alpha Theta              |
| Kappa Delta                   |
| Kappa Kappa Gamma              |
| Phi Mu                        |
| Pi Beta Phi                   |
| Sigma Kappa                   |
| Zeta Phi Beta                 |
| Zeta Tau Alpha                |
| Sigma Chi                     |
| Phi Gamma Delta               |
| Phi Kappa Psi                 |
| Phi Kappa Theta               |
| Pi Kappa Alpha                |
| Sigma Alpha Epsilon           |
The information in this section may pertain to regulations of the LSU System, LSU, and/or the individual schools and colleges of the University.

RESIDENCE STATUS

Eligibility for classification as a resident of Louisiana is determined by the Office of Admissions in accordance with University regulations and is based on evidence provided on the application for admission and related documents. Regulations relate primarily to location of the home and place of employment. A resident student is defined as one who has abandoned all prior domiciles and has been domiciled in the state of Louisiana continuously for at least one full year (365 days) immediately preceding the first day of classes of the term for which resident classification is sought.

The individual’s physical presence within this state for one year must be associated with substantial evidence that such presence was with the intent to maintain a Louisiana domicile. Physical presence within the state solely for educational purposes without substantial evidence of the intent to remain in Louisiana will not be sufficient for residence classification regardless of the length of time within the state. Factors considered in establishing residence classification, although not necessarily conclusive, include financial independence from parents residing in another state or country, reliance on Louisiana resources for financial support, continuous presence in Louisiana during periods when not enrolled as a student, commitments indicating an intent to stay in Louisiana permanently, paying Louisiana income taxes as a resident during the past tax year, and the absence of these indicia in other states during any period for which domicile in Louisiana is asserted. An international student on a student visa is classified as a nonresident.

A copy of the residence regulations of the LSU System may be obtained from the Office of Admissions. Resident classifications are audited and adjusted if necessary after each registration. Appropriate refunds are made or charges assessed.

ENROLLMENT PRIVILEGES AND RESPONSIBILITIES

Registration

Students may attend class only after completion of registration, including payment of fees as stipulated in “Fees and Expenses.” The Office of Student Records and Registration will provide evidence of proper registration to instructors.
Students must obtain special permission from their academic deans to register after classes begin. Approval by the Office of Academic Affairs also is required after the official "Final date for adding courses for credit," specified in the "Academic Calendar." Students may add courses, make section changes, or drop courses with approval of the appropriate dean within the periods designated in the "Academic Calendar."

First Class Meeting

Students who fail to attend the first class meeting without prior arrangement with the department may be required to drop the course to make space available to other students. Students have the responsibility to assure that they have been dropped; otherwise, they are liable for a grade of "F" in the course.

Identification Cards

To ensure their access to certain services and privileges, new students are issued permanent photo identification cards. Each student is issued a card free of charge only when he or she enrolls at the University for the first time; this ID card must be retained by the student. The card is validated for each subsequent term in which the student registers. The ID card remains the property of the University. Any student who alters or intentionally mutilates a University ID card, who uses the ID card of another, or who allows his or her ID card to be used by another, may be subject to University discipline.

There is a $10 charge to replace a lost, stolen, or mutilated ID card, even if the student is re-enrolling after an interruption of his or her studies.

Adding or Dropping Courses

A course may be added or dropped only in accordance with the dates indicated in the "Academic Calendar." The student will initiate the action by means of a form obtained from the office of the appropriate academic dean.

Resignation from the University

A student may voluntarily resign from the University through the "final date for resigning," as designated in the "Academic Calendar." Resignation is initiated in the office of the student's academic dean. The student must obtain an approved resignation form and file the form with the Office of Student Records and Registration within 10 days after it has been endorsed by each administrative office indicated on the form. Resignation is not complete until the form is submitted to the Office of Student Records and Registration.

Students who absent themselves from the University without leave and without official resignation will not be assigned "W" grades and, at the end of the semester, normally will receive grades of "F" in courses for which they are registered.

Students who withdraw from the University, with or without approval, or who are dropped from the University for any reason, may be ineligible for readmission for a semester or longer, depending upon their academic standing at the conclusion of the semester during which they resigned or were dropped.

Attendance

1. Students are expected to attend all classes regularly and punctually.
2. At the discretion of their academic dean, students registered in a senior college may be placed on attendance probation.
3. Students on academic or attendance probation must attend all classes. Instructors should report absences from class when, in the opinion of the instructor, further absence will jeopardize students' chances of satisfactorily completing the course.
4. Students who violate attendance probation may be dropped from the University at the discretion of the dean of their college (school).
5. Absences caused by authorized trips away from the campus or due to special duties at the University will be excused. Sponsors in charge of these trips or activities will present a list

*Includes all campuses of the LSU System.
of students involved to the students' dean for approval. Insurance for these trips must be obtained by the responsible faculty member in accordance with Policy Statement 22. Forms for obtaining insurance and excusing students from classes are available from the Office of the Treasurer.

6. Absences due to illness or other causes beyond students' control will be excused if the instructor is convinced that the reason for absence is valid.

7. Students who desire to be absent for reasons not covered herein should apply for a leave of absence, which must be approved by their dean. No leave of absence may be granted immediately before or after any regular holiday.

8. Students are expected to comply with special attendance regulations of their college, school, or division.

University Discipline

The disciplinary powers of LSU are derived from the provisions of the Louisiana Revised Statutes which established the Board of Supervisors with the power to adopt rules and regulations necessary for the government of the University consistent with the purposes for which it was founded and to adopt rules and regulations governing student conduct.

LSU, therefore, has a responsibility to protect its educational purposes, and as a corollary, its community. It follows that the function of its disciplinary powers is to protect its educational purposes, the health and safety of its community, and the safety of property therein, through regulating the use of University facilities and setting standards of scholarship and conduct for its students.

Code of Student Conduct

The administrative procedures for student discipline resulting from severe breaches of conduct which could result in the student's being separated from the University or having the disciplinary action taken by the University made a permanent part of the student's official record are outlined in the Code of Student Conduct. Students charged with violations of conduct listed in the Code of Student Conduct are provided a due process administrative hearing with the Dean of Students or a hearing before a panel of the Committee on Student Conduct composed of faculty members, students, and administrators.

The University issues and publishes other rules and regulations governing student activities and conduct. Certain responsibilities for assisting the University in the administration of these rules and regulations are delegated to student boards, councils, and courts.

It is the responsibility of all students to familiarize themselves with the Code of Student Conduct and other University rules and regulations governing student conduct and activities.

The Office of the Vice-Chancellor for Student Affairs has administrative responsibility for coordinating all University disciplinary procedures and practices.

The Handbook

The students, faculty, and staff of LSU have jointly produced The Louisiana State University Handbook of Rights and Responsibilities in the Student-University Relationship. This Handbook was promulgated by the Office of the Chancellor with the goal of assisting students, faculty, and staff in better understanding the rights and responsibilities of both the student and the University in the student-University relationship. All members of the University community are encouraged to become familiar with this Handbook so that its provisions can provide guidance to all in the day-to-day functioning of the University. Copies may be obtained from the Office of the Dean of Students or the Office of the Vice-Chancellor for Student Affairs.

OTHER ENROLLMENT OPPORTUNITIES

Interinstitutional Cooperative Program

LSU students may enroll in courses at Southern University under an expanded and simplified cross-registration program between the two universities. See the "LSU-Southern University Cooperative Programs" section of this catalog for details.
Academic Common Market

Louisiana participates with twelve other southern states in the Academic Common Market, an interstate agreement for sharing uncommon programs. Residents of these states who are accepted for admission into selected out-of-state programs can enroll on an in-state tuition basis. To enroll as Academic Common Market students, applicants must (1) be accepted for admission into a program to which their state has made arrangements to send its students, and (2) obtain certification of residency from the Common Market Coordinator in their home state. Applications for admission should be made directly to the institution offering the program. Additional information about the Academic Common Market and programs available at in-state tuition rates for residents of Louisiana can be obtained from the Office of Student Records and Registration.

Auditors

Students may be admitted to classes as auditors by obtaining written consent from the instructor of the course and the dean of the college offering the course. Those individuals who wish to audit only may obtain enrollment forms from the Office of Student Records and Registration. Auditors will not receive credit for courses audited, although courses previously audited may later be taken for credit. Students will not be permitted to take advanced-standing or proficiency examinations on audited course work. See the "Fees, Expenses, Scholarships, and Financial Aid" section for a listing of fees for auditing courses.

Change in registration from audit to credit or credit to audit requires permission from the instructor of the course and the student’s dean. Approval for change from audit to credit must be obtained no later than the final date for adding courses for credit as shown in the "Academic Calendar." A request for a change from credit to audit must be submitted no later than the final date for dropping courses or resigning from the University without receiving a grade of "W."

Correspondence and Extension Study

No more than one-fourth of the number of hours required for the bachelor’s degree may be taken through the Division of Continuing Education by correspondence study, extension courses, or both. Specific information regarding acceptance of correspondence study and/or extension courses toward fulfillment of degree requirements is provided in each college’s or school’s section of this catalog. Before scheduling correspondence or extension courses, LSU students must obtain approval of the dean of their college.

Registration of Nonacademic LSU Employees

With approval of the Office of Admissions and the appropriate department head and academic dean, a full-time nonacademic employee may enroll in classes involving not more than three hours of absence from work during the week. Such educational leave will not involve a reduction in pay, charge to annual or compensatory leave, or loss of full-time status. An employee registering for one or more courses which will require absence from work for more than three hours during the week must charge the additional time to compensatory or annual leave, where available, or to leave without pay. Under certain conditions, an employee may receive a rebate of one-half of the University fee for successful completion of one course per semester. See Policy Statement 12 for additional information. Educational leave is not granted to part-time nonacademic employees.

ACADEMIC CREDIT

Year Classification of Students

Year classification of undergraduate students is based on the number of semester hours of credit earned:

Freshman—Student with fewer than 30 semester hours of credit earned.
Sophomore—Student with at least 30 semester hours of credit earned.
Junior—Student with at least 60 semester hours of credit earned.
Senior—Student with at least 92 semester hours of credit earned.
A student in a five-year curriculum achieves senior classification when 136 semester hours have been earned.

See "Course Numbering System" for regulations governing the level of courses students may take, based on their classifications.

Students enrolled in Junior Division are further classified as JD-1 or JD-2, depending upon the number of semester hours of credit earned. (See "Classification of JD Students," in the "Junior Division" section of this catalog.)

Students are also classified as full-time or part-time in accordance with the following provisions.

Full-Time Students

1. Undergraduate—must carry 12 or more hours of resident credit in a regular semester or six or more hours in a summer term.

2. Graduate—must enroll in Graduate School for nine or more semester hours of resident credit or engage in thesis or dissertation research or other work certified by the department head and the dean of the Graduate School to be a full load.

The benefits and privileges accorded to full-time students include use of the Student Health Center; admission to certain athletic events on presentation of a validated University identification card; one subscription to The Daily Reveille, the student newspaper; one class picture in the yearbook, the Gumbo, if classified full-time in the fall semester; and a copy of the Gumbo, if classified full-time in the spring semester. Only full-time students may represent LSU in any athletic, dramatic, literary, musical, or other University organization.

Graduating seniors carrying fewer than the twelve hours required for full-time status, may obtain the benefits normally reserved only for full-time students (including admission to athletic events) by paying full-time fees. However, in no case can this option be exercised to exempt students from minimal residence requirements established by individual schools and colleges.

Part-Time Students

Undergraduate students are classified as part-time if they schedule or drop to fewer than 12 hours of course work in a semester or six hours in a summer term. Criteria for part-time status in the Graduate School are available from the graduate records office.

Transfer Credit

Prior to registration at LSU, students must submit to the Office of Admissions official transcripts from each college or university attended, regardless of whether credit was earned or is desired. Students who fail to submit required transcripts will be subject to dismissal from the University.* The extent to which credit earned in other colleges and universities is accepted toward fulfilling degree requirements at LSU* is determined by the dean of the student's college.

Students who are placed on probation or made ineligible to continue, based on grades earned in course work recorded on transcripts received after registration, will have the appropriate academic action applied immediately.

After students have earned one-half of the credits required for a degree, they may not use additional credits earned in a two-year college outside the LSU System to fulfill degree requirements, unless authorized to do so by the dean of their college or school.

Students may not receive credit for work taken concurrently at another college or university without prior written approval from their academic dean.

Credit by Examination

To provide qualified students the opportunity to demonstrate competence in college-level course work, the University offers a variety of programs through which credit can be earned by examination. Students with superior ability or preparation are allowed placement at a higher course level and credit in courses by-passed upon achieving acceptable scores on these examinations. Opportunities for earning credit by examination are described below.

Advanced-Standing Program for Beginning Freshmen

LSU Placement Tests and Departmental Advanced-Standing Examinations. All new freshmen students entering LSU must take the Mathematics Placement Test and may take Departmental

*Includes all campuses of the LSU System.
Advanced-Standing Examinations. Appropriate course placement and academic credit earned are
determined by the students' scores. These examinations are administered free of charge to partic-
ipants in the Spring Testing, Pre-Enrollment Counseling, or Special International Student Testing
programs, provided the students complete the tests by the final date to add courses for credit during
their first term of enrollment at LSU. Credit earned through placement tests and advanced-standing
examinations taken while students are not enrolled in the University* will be awarded in the next
semester for which they are enrolled for resident credit, provided they register at LSU within two
years.

ACT: The American College Test. ACT scores are used in granting advanced-standing credit in
freshman English.

AP: The Advanced-Placement Program of the College Board. Advanced-Placement credit will
be granted in appropriate subjects to freshmen who earn a grade of 3, 4, or 5 on Advanced-
Placement subject examinations as specified in the chart below.

LSU ADVANCED-PLACEMENT PROGRAM FOR ENTERING FRESHMEN

About one-fourth of American secondary schools currently participate in the Advanced-Placement
Program of the College Board. Each May, these examinations are administered (by the College
Board) to students who have participated in the program. The following table shows credit awarded
by LSU and the score requirements:

<table>
<thead>
<tr>
<th>EXAMINATION</th>
<th>MINIMUM SCORE</th>
<th>COURSES</th>
<th>HOURS CREDIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art, History of</td>
<td>3, 4</td>
<td>ART 1440 or 1441</td>
<td>3, 6</td>
</tr>
<tr>
<td>Biology</td>
<td>3, 4</td>
<td>BIOL 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>ZOOL 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3, 4 or 5</td>
<td>CHEM 1201, 1202</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>CHEM 1421, 1422</td>
<td>6</td>
</tr>
<tr>
<td>Computer Science</td>
<td>3, 4 or 5</td>
<td>CSC 1248 (Non-scientific majors)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4 or 5</td>
<td>CSC 1250 (Scientific majors)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>(May take dept. exam for credit in CSC 1251)</td>
<td>3</td>
</tr>
<tr>
<td>English Language and Composition</td>
<td>3</td>
<td>ENGL 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>ENGL 1001, 1002</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>ENGL 2020 or 2025</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENGL 1001, 1002</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENGL 2020, 2022 or 2025</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENGL 2025, 2027</td>
<td></td>
</tr>
<tr>
<td>English Literature</td>
<td>Same as above</td>
<td></td>
<td></td>
</tr>
<tr>
<td>French Language</td>
<td>3, 4</td>
<td>FREN 1001, 2051</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>FREN 1001, 2051, 2053</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FREN 1001, 2051, 2053</td>
<td>16</td>
</tr>
<tr>
<td>German Language</td>
<td>3, 4</td>
<td>GERM 1001, 2051</td>
<td>10</td>
</tr>
<tr>
<td>History, American</td>
<td>3</td>
<td>HIST 2055 or 2057*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>HIST 2055, 2057</td>
<td>6</td>
</tr>
</tbody>
</table>

*Note: the specific course to be decided after the department interviews the student.
For information on general program data and policies, contact either 1) Advanced-Placement Program, The College Board, 45 Columbia Ave., New York, NY 10023-6917; or 2) Spring Testing, Junior Division, Louisiana State University, Baton Rouge, LA 70803-5222.

**CLEP: Subject Examinations of the College Level Examination Program.** Policies governing minimum required scores and the acceptance of credit are established by the appropriate academic departments. LSU allows credit on CLEP subject examinations in 21 areas. (Credit is not allowed for CLEP general examinations.) Departmental course credit recommendations for satisfactory scores on CLEP subject examinations are included in the chart below.

<table>
<thead>
<tr>
<th>CLEP SUBJECT EXAM</th>
<th>MINIMUM SCORE</th>
<th>LSU EQUIVALENT</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>American History</td>
<td>65</td>
<td>HIST 2055, 2057</td>
<td>6</td>
</tr>
<tr>
<td>American Literature</td>
<td>60*</td>
<td>ENGL 2070</td>
<td>3</td>
</tr>
<tr>
<td>Analysis &amp; Interpretation of Literature</td>
<td>59*</td>
<td>ENGL 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Biology</td>
<td>55</td>
<td>BIOL 1001, 1002, 1003, 1004</td>
<td>8</td>
</tr>
<tr>
<td>Calculus with Analytic Geometry</td>
<td>65</td>
<td>MATH 1550</td>
<td>5</td>
</tr>
<tr>
<td>College Algebra</td>
<td>50</td>
<td>MATH 1021</td>
<td>3</td>
</tr>
<tr>
<td>College Algebra—Trigonometry</td>
<td>50</td>
<td>MATH 1023</td>
<td>5</td>
</tr>
<tr>
<td>College Composition</td>
<td>58</td>
<td>ENGL 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>English Literature</td>
<td>55*</td>
<td>ENGL 2020, 2022</td>
<td>6</td>
</tr>
</tbody>
</table>

*The essay is required; if not furnished, departmental testing is required.*
LSU Departmental Proficiency Examinations

Proficiency tests are considered equivalent to final examinations in college-level courses. Ordinarily, new transfer, re-entry, and continuing students must obtain permission from their academic deans and from the chairmen of the departments offering the courses prior to taking the examinations. Students may apply for these tests at any time after they have been admitted to the University.*

*Tests are administered subject to the conditions specified below.
1. The student must have been admitted to the University* and must be in good standing.
2. To initiate the examination, permission must be obtained from the appropriate dean and the chairman of the department offering the course. After authorization is granted, the Office of Student Records and Registration will issue an official permit upon payment of the required fees. No instructor may give a proficiency examination until he/she has received the official permit.
3. If a grade of "C" or higher is earned on the examination, a mark of "P" and regular credit in the course are entered on the student's transcript. If a grade lower than "C" is earned, only the fact that the examination has been attempted will be recorded; credit will not be allowed. A student may take a proficiency examination in a particular course only once.
4. Students are not permitted to schedule proficiency examinations in courses which they have audited, in courses in which they have earned unsatisfactory grades, or in courses which they have dropped with grades of "W."
5. Credit earned through proficiency examinations will not be used in computing the student's grade-point average.
6. Students must pay a fee of $20 for each course in which credit by proficiency examination is being sought; an additional $20 processing fee is assessed for each examination administered by the Measurement and Evaluation Center.

Acceptance of Credit from Other Institutions

LSU System Credit. Students awarded advanced-standing or proficiency credit on other campuses within the LSU System can transfer that credit to LSU insofar as the basis for awarding the credit is comparable to that on this campus. The student is responsible for requesting that the registrar

*Includes all campuses of the LSU System.
on the other campus send an official transcript to the LSU Office of Admissions showing the credit earned.

Credit from Other Collegiate Institutions. Credit earned through departmental proficiency examinations administered by other accredited colleges/universities and listed on the official transcript is evaluated in accordance with policies applying to resident credit earned at those institutions. Grades earned through credit by examination are not included in the computation of the grade-point average.

Transfer students who have taken subject examinations in the College Level Examination Program (CLEP) or who have participated in the Advanced-Placement Program of the College Board should have their examination scores sent directly to the Office of Admissions for evaluation.

Transfer credit is not awarded for work or travel experience, except as validated through appropriate departmental proficiency examinations at LSU.

Credit by examination is limited to 30 semester hours. This credit cannot be used to reduce the minimum residence requirement for graduation. With approval of the appropriate academic dean, credit earned through Advanced-Placement courses of the College Board will be excluded from the 30 semester hour credit limit.

Maximum Credit Load for Undergraduates

Each college establishes the number of semester hours of course work required in each year of its curricula. Students may register for a maximum of three semester hours beyond the number prescribed for the current semester in their curriculum if, during the preceding semester, they maintained a 3.00 average with no grade lower than “C.” In no case, however, will students be permitted to register for more than 21 hours of degree credit in a regular semester or 10 hours in a summer term.

To be classified as full-time, students must register for at least 12 semester hours of work in a regular semester or six hours in a summer term. Full-time students who are doing unsatisfactory work because of a heavy academic load may be required by the dean of their college to drop one or more courses, provided such action does not change their full-time status.

Undergraduate Enrollment in Graduate Courses

Qualified LSU seniors may register for graduate credit with the recommendation of the undergraduate college dean, the approval of the appropriate department chairman, and the dean of the Graduate School. Requirements and regulations are specified in the section, “Graduate Credit for LSU Seniors.”

Advanced undergraduates who have earned a minimum GPA of 3.50 may enroll for undergraduate credit in 7000-level courses with consent of the instructor and the graduate dean. Refer to the “Course Numbering System” section for additional requirements and conditions.

Credit for Repeated Courses

When students are permitted to repeat for credit a course previously taken in the LSU System, only the last grade and credit earned determine acceptability of the course for degree credit. All instances of repeated courses, however, are included in grade-point average calculations; credit may be awarded only for the last repetition.

A student may not repeat a course in which a grade of “C” or better has been earned unless the catalog description indicates that the course may be repeated for credit or the student’s dean approves the repetition for some special reason. If a student registers for a course in violation of the above policy, the student’s dean may deny degree credit for the course.

Students who receive an “F” in a course must repeat the course in the LSU System in order to receive credit and quality points for it. With prior concurrence of the head of the department in which the course is offered and the dean of the college in which the student is enrolled, credit and quality points may be approved in individual cases for courses repeated outside the LSU System.

No student may register concurrently for more than one section of a course, except with approval of the department head in instances where the different sections cover substantially different material.

EXAMINATIONS

Midsemester Examinations

Midsemester examinations for undergraduate courses are scheduled during the seventh week of instruction during a regular term (fourth week in the summer term). With the exception of approved
group examinations, members of the faculty will determine and announce the specific dates for their midsemester examinations, provided that they are held during regular class periods.

For classes in which monthly examinations, weekly quizzes, or other testing procedures are used to determine midsemester grades, the faculty may, with departmental approval, eliminate a formal midsemester examination but still must submit grades to the Office of Student Records and Registration. Midsemester grades are available in the academic deans' offices.

**Dead Week Policy**

Dead Week is designed to minimize student participation in extracurricular activities during the period immediately prior to final examinations. Normal classroom activities are not affected by Dead Week policies. No meetings, social activities, athletic events, or other extracurricular activities which require student participation will be scheduled. Any exceptions to this policy must receive prior approval from the Office of Academic Affairs.

**Final Examinations**

Final examinations are required and shall be held at the end of each semester or summer term in accordance with the schedule issued by the Office of Academic Affairs. Where final examinations are inappropriate because of the nature of the course, exceptions to this requirement may be made upon approval of the appropriate department head, dean, or director, and the Office of Academic Affairs.

A student who, because of illness or other valid reason, is absent from any final examination may take a special examination only upon recommendation of the dean of the student's college and with the concurrence of the instructor involved.

**GRADES**

**Grading Systems**

Faculty members have the responsibility to provide the University and the student with an individual evaluation of each student's work. At the beginning of each semester, faculty members are expected to announce to their students the basis on which the final grade will be determined. On request, they should provide to students a review of all graded material, including final examinations, which contributed to the course grade and a review of the method by which the grade was determined. Unreturned examinations and other graded material should be kept on file for at least six months following the end of the academic term. Faculty members who leave the campus during this period should file all course material in their departmental offices.

It is the right and responsibility of the instructor to determine and assign the grade for each student enrolled in his or her course beyond the final date for withdrawing with a "W," as specified in the "Academic Calendar." The instructor's assignment of a grade is final; the grade may not be changed or altered except through the academic appeals procedure, following appropriate investigation.

In extraordinary circumstances which make it impossible for the instructor to fulfill the responsibility of determining a course grade, the department head shall assign the grade. In such a case, the department head may elect to award the grade of "P" (Pass). This "P" grade would be excluded from the normal limits on use of the pass-fail option indicated below.

_Re-examination, special examinations, extra-credit projects, or extra laboratory hours cannot be made available to an individual student unless the same options are available to the entire class._

**Undergraduate Grades**

1. Grades of "A," "B," and "C" are assigned for satisfactory work. A grade of "A" indicates distinguished mastery of the course material; a grade of "B," good mastery; a grade of "C," acceptable mastery. A grade of "D" indicates minimally acceptable achievement for credit; in some colleges a grade of "D" in certain courses does not allow that credit to be applied toward the degree. A grade of "F" is failing. A grade of "P" (passed) denotes satisfactory completion (grade of "C" or better) of advanced-standing or proficiency examinations, pass-fail option courses, and certain other courses. A grade of "NC" (no credit) indicates that no credit is earned.
A student's grade-point average is determined by the ratio of quality points earned to semester hours attempted. Quality points are assigned to letter grades using the following scale: "A" = 4 quality points; "B" = 3 quality points; "C" = 2 quality points; "D" = 1 quality point; "F" grades carry no quality points. Grades of "P," "W," "I," and "NC" are not used in computing the official grade-point average and, therefore, do not carry quality points. All courses taken for which grades of "A," "B," "C," "D," or "F" are assigned, including repeated courses, are considered in calculating grade-point averages.

2. A "W" will be entered on a student's record for any course dropped within the dates specified in the "Academic Calendar." In extraordinary cases, upon written petition, the dean of the student's college may authorize a resignation and/or a drop from a course after the last date specified.

3. Work which is of passing quality but which, because of circumstances beyond the student's control, is incomplete, may be marked "I" (incomplete). An "I" grade may be assigned for undergraduates only if the instructor receives appropriate authorization from the dean of the college in which the student is enrolled. If authorization is not received, the instructor is to consider the delinquent work to be of failing quality, and an "I" grade may not be assigned. It is the responsibility of the student to initiate the request for the academic dean's authorization. An "I" grade will be converted to "F" unless it is removed during the next regular semester in which the student is in residence in the LSU System prior to the deadline for adding courses for credit as specified in the "Academic Calendar." In extraordinary cases, the dean of the student's college may authorize that the "I" grade become permanent, or that an extension of time for removing the grade be allowed.

4. Grades earned in courses offered by the Hebert Law Center, the School of Medicine, the School of Dentistry, and the School of Veterinary Medicine shall not be considered in computation of the grade-point average of an undergraduate student unless approval is given by the dean or director of the student's college to permit the student to use the professional courses as electives or to pursue a combined curriculum.

**Pass-Fail Option for Undergraduates**

Some courses have been approved to be graded pass-fail for all students enrolled. In courses with regular grading, students may petition for the pass-fail grading option subject to the guidelines indicated below. In all undergraduate courses with pass-fail grading, the grade of "P" will be given for work of "C" quality or better. The grade of "F" will be given for work below "C" quality. Students may be registered in several courses regularly graded pass-fail during a given semester and still elect to take an additional course under the pass-fail option program.

To register under the pass-fail option, students must obtain the necessary approval signatures on a petition card which can be obtained from the office of their dean. Courses passed with a grade of "P" may be offered for degree credit, but the grade will not be considered in computing the grade-point average. An "F" in a pass-fail course will be treated as any other "F," both with regard to credit earned and to grade-point average calculation.

**Pass-Fail Option Program for HPRD Activity Courses**

The following policies apply to HPRD courses numbered below 1400.

1. Students are allowed to enroll under the pass-fail option regardless of grade-point average, other courses being taken on a pass-fail basis, and total number of courses completed on a pass-fail basis.
2. Only the approval signature of the instructor of the course is required on the petition card.
3. The petition must be submitted prior to the last day to add courses for credit.

**Pass-Fail Option Program for All Other Courses**

Limited use of a pass-fail option is permitted at the discretion of the individual colleges and schools, subject to the following policies.

1. The pass-fail option is available only to those students whose grade-point average in the LSU System is 2.50 or better.
2. The pass-fail option is allowed only for unrestricted electives or other courses approved by the student's major department.
3. No more than 12 semester hours of degree credit in the pass-fail option program are permitted; pass-fail enrollment may not exceed one course per semester, excluding those courses normally graded pass-fail.

4. Enrollment under the pass-fail option program must have the prior approval of the instructor, the head of the student’s major department, and the dean of the college in which the student is enrolled.

5. Through the last day to add courses for credit, students may, with appropriate approval, change from pass-fail to graded status and vice versa. No change in the grading option may be made after the last day for adding courses for credit.

Graduate Grading System

Grades in the Graduate School are defined as follows:

1. **Marks carrying advanced degree credit** are “A,” “B,” “C” (not to exceed six hours), “S” (satisfactory), and “P” (pass).

2. **Marks carrying no credit for advanced degrees** are “D” (poor), “F” (fail), “I” (incomplete), “W” (withdrawn), “U” (unsatisfactory), and “NC” (no credit).


4. The semester grade-point average is based on graduate and undergraduate work graded “A,” “B,” “C,” “D,” and “F.”

The “I” grade indicates that course performance was satisfactory but, because of circumstances beyond the student’s control, all requirements have not been met. An “I” grade should never be given to enable a student to do additional work to improve a deficient grade. An “I” grade may not be given for a course undertaken in the semester in which the student graduates if that course is listed on the application for degree or if changing the “I” grade to an “F” would result in the student’s cumulative average being less than 3.00. Grades of “I” may not be assigned for thesis (8000) or dissertation (9000) research. Authorization from the dean of the Graduate School is not required to assign an “I” grade to a graduate student.

An “I” grade is valid only until the final date for submission of grades at the end of the next regular semester (fall or spring), whether or not the student is enrolled. “I” grades received in the spring semester or in the summer term are valid until the end of the fall semester; “I” grades received in the fall semester are valid until the end of spring semester. There will be no extension of time.

Responsibility for changing an “I” grade lies with both the student and the faculty member concerned. Failure by the faculty member to submit a “Grade Correction Report” by the final date for submission of grades for the next regular semester will result in the “I” grade becoming a permanent “F” grade.

Unusual circumstances that preclude a student from completion of the course requirements may, at the discretion of the dean of the Graduate School, permit assignment of a permanent “I” grade. Unusual circumstances might include, but would not be limited to, withdrawal of the student from the University because of prolonged medical problems or death or resignation of the faculty member concerned and the absence of another faculty member to supervise the unfinished work.

Petition for a permanent “I” grade must be initiated by the student. The petition must be accompanied by a letter of justification from the appropriate faculty member, if possible. It must also be endorsed by the head of the student’s department before it is submitted to the dean of the Graduate School.

A “W” grade indicates a course has been dropped between the dates specified in the “Graduate Calendar.” In extraordinary cases, the dean of the Graduate School may authorize a resignation and/or dropping of a course after the last date specified.

“S” (satisfactory) and “U” (unsatisfactory) grades are given for thesis (8000) and dissertation (9000) research courses, up to and including the semester the student graduates.

Pass-Fail Option for Graduate Students

With approval of the student’s major professor, department head, instructor of the course involved, and the dean of the Graduate School, a graduate student may register on a pass-fail basis for courses not included in the major or minor requirements. The deadline for changing from pass-fail grading to letter grading, or vice-versa, is the last day for adding courses for credit. If the
student's major department agrees, graduate courses passed with a grade of "P" may be offered for degree credit, but the grade will not be considered in computing the grade-point average. For graduate-credit courses, a grade of "P" will be assigned only if the work is of at least "B" quality. A grade of "F" in a pass-fail course will be treated as any other "F." Some departments have designated certain research and seminar courses to be taught on a pass-fail basis. All students enrolled in these courses will be graded in this manner.

**Computation of the Grade-Point Average**

For all academic purposes, grade-point averages shall be specified to three significant figures (two decimal places), with the last figure to reflect rounding from a four-significant-figure (three decimal places) average where possible. If the third figure after the decimal point is equal to or greater than five, upward rounding shall occur. If the third figure after the decimal point is less than five, it shall be dropped, regardless of what the fourth or subsequent figures may be. Thus, 3.950 becomes 3.96, and 3.9549 becomes 3.95. In calculations to determine relative rank in class, a student's average may be carried to three decimal places. Regardless of the results of rounding, no student shall be deemed to have graduated with a "4.0" average if any grade other than "A" or "Pass" for courses completed appears on the transcript.

Any grade-point average cited to only one decimal place (as 2.0) shall be construed to mean, mathematically, a figure accurate to two decimal places (as 2.00), regardless of the text.

**Grade Appeals**

Appeals of final grades must be initiated by the student within 30 days after the beginning of the next regular semester. The procedure is as follows:

1. The student should meet with the faculty member concerned to discuss the situation and attempt to arrive at a solution. Although each may have an advisor present, it is believed that under most circumstances, the meeting will be more productive if only the student and the faculty member are present. If an administrative officer (department chairman, dean, Vice-Chancellor for Academic Affairs) is the faculty member who assigned the grade which is appealed, that officer should recuse himself or herself from the appellate process; his or her place in the procedure will be taken by a faculty member appointed *ad hoc* by the Vice-Chancellor for Academic Affairs or the Chancellor, as appropriate. If the decision reached requires change in an official University record, the faculty member must comply with all University regulations and procedures necessary to accomplish the change.*

2. If the matter is not resolved between the student and the faculty member, and the student wishes to pursue the appeal, he or she shall make a written request to the head of the department in which the course was taught asking for a meeting of the department head, the faculty member, and himself or herself. The faculty member will provide the name of the appropriate department head. The written request should clearly state the purpose of the meeting and should indicate the faculty member's name; however, it should not go into detail as to justification for the appeal. The department head shall arrange a meeting within two weeks from the date of receipt of the request. At this meeting, both the student and the faculty member may be accompanied by an advisor. At the close of the meeting, or within seven days thereafter, the department head shall make a decision. If a decision is made at the close of the meeting, it is to be given orally to all present. If the matter is taken under advisement, the department head shall inform all parties, including the student's dean, of his or her decision in writing. If the decision reached requires change in an official University record, the faculty member must comply with all University regulations and procedures necessary to accomplish the change.*

3. If the student is not satisfied with the decision reached, he or she may appeal to the dean of the college in which the department offering the course is located. The dean's name will be furnished by the department head. Appeals concerning courses numbered 8000 or above should be directed to the dean of the Graduate School. The student's appeal must be in writing.

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*A change of grade is accomplished by filing a form provided for that purpose. A satisfactory reason for the change is "academic appeal." The department head and/or the student's dean (dean of the college in which the student is enrolled) may request documentation of the facts of the matter to facilitate any decision with respect to approval of the grade change.*
on a Student Appeal Form available in department and college offices. The form must contain the following information: (1) a statement of the actions complained of; (2) the relief requested; and (3) a specific statement of the reasons supporting the relief sought. The student may also request that a hearing panel be established to assist in reaching a decision. Upon receipt of the completed Student Appeal Form, the dean must promptly forward copies to the department head and faculty member concerned, who must promptly reply with individual written statements supporting their previous actions. Copies of the written replies must be forwarded to the student. Either may request that a hearing panel be convened.

When the department head’s and faculty member’s replies have been received, the dean may take one of the following actions: (a) he or she may decide the question on the basis of the written appeal and the faculty member’s and department head’s written replies; (b) he or she may meet with all parties concerned, who may be accompanied by advisors if desired, and, after discussion, reach a decision; or (c) he or she may refer the appeal to a hearing panel for their recommendation. If a hearing panel has been requested by the student, the faculty member, or the department head, the dean must convene such a panel.

Hearing panels to consider grade appeals will be appointed by the dean and shall be composed of three faculty members selected by the dean, with no more than two from the same department, and two students appointed by the student president of the college. The dean should designate a chairman for the panel. The panel shall hold a hearing with the department head, the faculty member, and the student, each of whom may be accompanied by an advisor. After deliberation, the panel will make its recommendation in writing to the dean. Copies of the recommendation, and the dean’s final decision, must be given to all parties, including the student’s dean.

Regardless of the method used, the dean must make his or her decision within 30 days from the date of receipt of the student’s appeal. The decision must be written, listing the reasons supporting the decision; copies must be given to all parties, including the student’s dean. If the decision requires change in an official University record, the faculty member must comply with all University regulations and procedures necessary to accomplish the change.*

4. If any party to the appeal believes that a serious procedural error occurred or that there was an abuse of discretionary authority in reaching the decision, he or she may file with the Vice-Chancellor for Academic Affairs a written petition for review. This petition, which must be filed within seven days after receipt of the decision in step 3, must contain a complete statement of the alleged serious procedural error, or examples of abuses of discretionary authority complained of, and also must contain reasons for the relief sought. The petition must be accompanied by all documents produced in the appeal. Copies should be sent to all parties to the appeal and to the student’s dean. The Vice-Chancellor for Academic Affairs shall decide within two weeks after receipt of the petition whether further action should be taken. In reaching this decision, he or she may ask other parties to the appeal to make written reply. If the decision is reached that a review is not justified, the student and all other parties, including the student’s dean, will be so notified.

If the Vice-Chancellor for Academic Affairs decides to respond favorably to the petition for review, he or she will hold a formal meeting with all parties and their advisors, if desired, and reach a decision based on discussions at this meeting, as well as on all written materials furnished. Once a decision is reached, the Vice-Chancellor for Academic Affairs will notify all parties, including the student’s dean, of his or her decision. The decision of the Vice-Chancellor for Academic Affairs shall conclude the matter, subject to the right of the Chancellor to review the case. The Chancellor will consider the case only on the basis of a petition for review following the procedure outlined above.

Grade Reports

To apprise students of their academic status, reports of final grades earned are mailed at the end of each semester and summer term to their grade-mailing addresses, provided their financial accounts

*A change of grade is accomplished by filing a form provided for that purpose. A satisfactory reason for the change is “academic appeal.” The department head and/or the student’s dean (dean of the college in which the student is enrolled) may request documentation of the facts of the matter to facilitate any decision with respect to approval of the grade change.
with the University* are current. Midsemester grades are available through the offices of the students’ academic deans and directors.

Transcript of Record

Upon written request, former and currently enrolled students may obtain a transcript of their academic record to date, provided they are current in their financial obligations to the University.* Partial transcripts are not issued. Normally, two days of processing are required after the transcript request is received. At the beginning or end of a semester, considerably more time is required. Telephone requests for transcripts cannot be honored.

Privacy of Student Records

LSU ensures students access to their official academic and disciplinary records and prohibits the release of personally identifiable information, other than directory information, from these records without the student’s permission except as specified by law. Complaints regarding alleged violations of students’ rights with regard to privacy of records or access thereto should be sent to the Family Educational Rights and Privacy Act Office, Department of Education, 330 Independence Avenue SW, Washington, D.C. 20201. Copies of the University’s “Policy Statement” concerning the privacy rights of students may be obtained from the Office of Student Records and Registration.

Directory information is defined as student’s name, local address, and telephone number; student’s home address; date and place of birth; major field of study and classification; class schedule; social security number (released only to the faculty for purposes of posting grades); cumulative grade-point average (released only to honorary organizations for use in determining eligibility for membership); participation in officially recognized activities and sports; weight and height of members of athletic teams; dates of attendance; degrees, awards, and honors received; and the most recent previous educational institution attended by the student.

Currently enrolled students who wish to withhold any information in these categories should complete the appropriate form available from the Office of Student Records and Registration within 10 days after the last day of registration in any term, indicating which items should not be considered directory information. Such requests must be renewed after every registration. Students who desire that their grades not be posted should inform their instructors of their wishes not later than the day of the final examination in each course. Each student who is registered for the fall semester will have his or her name and local address listed in the campus telephone directory unless the appropriate form (available from the Office of Student Records and Registration) is completed within 10 days after the last day of registration.

SENIOR COLLEGE SCHOLASTIC REQUIREMENTS

The following provisions are applicable to all students in senior colleges. Scholastic regulations for Junior Division students are given in the appropriate section of this catalog.

1. At the end of any semester or summer term, students who are as much as 10 quality points below a 2.00 average on all work attempted in the LSU System will be placed on scholastic and attendance probation.

2. Once on scholastic probation, students will remain on probation until they have a cumulative average of 2.00 or higher on all college work attempted and on all work attempted in the LSU System.

3. Students who have ever been on scholastic probation in a senior college will be dropped from the University* at the end of any semester or summer term during which they fail to earn at least a 2.00 average, unless at that time they have at least a 2.00 average on all college work attempted and on all work attempted in the LSU System. However, when students in this situation have completed the first semester of the senior year and are degree candidates, they may be placed on probation for one additional semester at the discretion of their academic dean instead of being dropped from the University.*

4. Regardless of their overall average, students who fail to earn a 2.00 average in each of two consecutive semesters (or one semester and a summer term) may be declared ineligible to continue in a college or a particular curriculum, at the discretion of the dean of the college.

*Includes all campuses of the LSU System.
5. Students dropped for the first time for academic reasons may not be considered for readmission until they have been out of the University* for one regular semester. They are then eligible for consideration for readmission. Readmission may be delayed or denied at the discretion of the dean of the college in which enrollment is desired. During the period of their ineligibility to enroll, students may register on a noncredit basis for correspondence courses.

6. Students dropped the second time for academic reasons, including drops from Junior Division, must remain out of the University* for at least one calendar year. They are then eligible for consideration for readmission. Readmission may be delayed or denied at the discretion of the dean of the college in which enrollment is desired.

7. Students who have been dropped for scholastic reasons may not apply toward degree requirements in this University* credits earned at another institution during the period of their ineligibility to enroll at LSU.

UNIVERSITY BACCALAUREATE DEGREE REQUIREMENTS

Student Responsibility

Each student is personally responsible for completing all requirements established for his or her degree by the University, college, and department. It is the student’s responsibility to learn these requirements. A student’s advisor may not assume that responsibility. Any substitution, waiver, or exemption from any established departmental or college requirement or academic standard may be accomplished only with the approval of the student’s dean. Exceptions to University requirements, including the general education requirements, will be authorized only with the approval the student’s dean and the Office of Academic Affairs.

The Catalog Which Determines the Curricular Requirements for a Degree

With certain limitations, the student may choose which issue of the LSU General Catalog will determine the curricular requirements for his or her degree program. The student may choose any issue which is not more than ten years old and which is in force at some time during the period when he or she is enrolled at accredited institutions of higher education; except that one whose enrollment is interrupted for two or more consecutive regular semesters may choose no catalog earlier than the one in force at the time of re-entry.

The University will make every reasonable effort to honor the statement of curricular requirements in the chosen issue of the catalog. However, courses and programs will sometimes be discontinued, and requirements will sometimes change as a result of actions by accrediting associations and other external agencies.

Academic Requirements for Obtaining a Degree

1. A grade-point average of 2.00 ("A" = 4) on all work taken, except for those courses in which grades of "P," "W," or "I" are recorded, is required for graduation. In order to meet graduation requirements, students must have a 2.00 average on work taken at this University* as well as a 2.00 average on their entire college record.

2. Candidates for a bachelor’s degree must fulfill a minimum residence requirement of two semesters (or four summer terms), earn at least 30 semester hours of credit at this University*, and meet the residence requirements of their college as stipulated in each college’s and school’s section of this catalog.

3. After students have earned one-half of the credits required for a bachelor’s degree, they may not use additional credits earned in a two-year college outside the LSU System to fulfill degree requirements, unless authorized to do so by the dean of their college or school.

4. Students must complete a general education component of 39 semester hours in approved courses in six major areas: English composition, analytical reasoning, arts, humanities, natural sciences, and social sciences. The "General Education Requirements" section of this catalog specifies approved courses and the regulations governing applicable credit.

*Includes all campuses of the LSU System.
5. In addition to these minimum requirements, students must meet all special regulations established by the faculties of their respective colleges and listed in each college's section of this catalog.

6. Degrees, both honorary and earned, are conferred only by vote of the Board of Supervisors upon recommendation of the faculty of the University* or the faculty of the appropriate college, school, or division of the University.*

Procedural Requirements for Obtaining a Diploma

1. During the semester prior to the one in which graduation is anticipated, candidates must request that the dean of their college evaluate their academic records for compliance with degree requirements. (Each college establishes its own degree requirements, which are listed in that college’s section of this catalog.) After the degree check-out form has been signed by the appropriate dean, it must be presented to the Office of Student Records and Registration for review. At this time, candidates must apply for a degree and state their name as they wish it to appear on the diploma and in the commencement program.

2. At their last registration, candidates must pay the graduation fee. This fee is not refundable after the fifth week of classes in a regular semester or the second week of classes in a summer term. Students who previously have paid a graduation fee, but who did not graduate at the expected time, must pay a $20 duplicate diploma fee.

3. All financial indebtedness to the University* must be cleared prior to graduation.

4. Candidates for degrees are expected to participate in the commencement exercises, unless excused by their deans.

Requirements for a Second Baccalaureate Degree

Persons who wish to obtain a second baccalaureate degree from this University must meet all academic and residence requirements set by the college(s) concerned and must earn a minimum of 30 semester hours beyond the work offered for the degree requiring the fewer number of hours. See “Requirements for a Second Bachelor’s Degree” in each college’s section of this catalog.

HONORS

Dean’s List

Each semester an honor list is compiled. Full-time undergraduate students who earn a semester average of at least 3.50 and who have no “I” grades for the semester are included in the list.

Honors Program

Prior to matriculation in the fall semester, qualified students are invited to participate in the honors program on the basis of their ACT scores. For the spring semester, performance during the preceding semester becomes the criterion for admission or retention. Participants will schedule Honors 1001/1003 or 1101/1103 in the fall and Honors 2002/2004 in the spring. Continued honors opportunities are described below.

Sophomore Honors Distinction

Students who have (1) completed 20 hours of honors courses including either Honors 1001/1003 or 1101/1103 and/or 2002/2004 and/or Honors 3001/3003, and one honors sciences sequence or honors mathematics course and (2) attained a 3.30 cumulative gpa in all honors courses, in all courses taken in the major field, and in all course work taken, will be designated as having achieved "Sophomore Honors Distinction." This designation will be made by the deans of their colleges upon recommendation of the director of the Division of Honors and Interdisciplinary Studies and will include a notation on the transcript and a certificate awarded at the end of four semesters.

*Includes all campuses of the LSU System.
Upper Division Honors Distinction

To achieve upper division honors distinction, a student must meet the following requirements:
1. Take at least 12 semester hours of honors courses at the 3000 level or above, including three to six hours of thesis/project.
2. Have the sequence of honors courses approved by the college, the major department, the director of the Honors Division, and the president of the Honors Board.
3. Demonstrate competence in research, in the preparation of a senior thesis/project in the major field, take an oral examination, or make a presentation of the project before a committee of three or more faculty members appointed by the chairman of the student’s academic department. The thesis/project advisor should be from the student’s major department. At least one member of the committee should be from a department outside the student’s major.
4. Achieve, after the sophomore year, a grade-point average of at least 3.33 (‘‘A’’ = 4.00) on both LSU and overall academic work, and no grade lower than a ‘‘B’’ in any honors course taken after the sophomore year.
5. Fulfill all additional degree requirements and upper division honors requirements of the student’s college.

Graduation With College Honors

To graduate ‘‘with college honors,’’ a student must meet the following requirements:
1. Achieve ‘‘Sophomore Honors Distinction’’.
2. Achieve ‘‘Upper Division Honors Distinction’’.
3. Meet all other requirements for college honors as established by the student’s college.

Honors Option

Students eligible for 3000- or 4000-level courses who have minimum grade-point averages of 3.00 may earn honors credit in these courses by enrolling under an Honors Option (H-Option) contract. The H-Option contract must be developed with the course instructor prior to enrollment in the course. The contract must be approved by the Honors Division.

University Honors

The baccalaureate degree is awarded summa cum laude to any student whose grade-point average is at least 3.90, magna cum laude if the grade-point average is at least 3.80, and cum laude if the grade-point average is at least 3.70. Students awarded the baccalaureate degree with honors must also have satisfied all additional requirements imposed by their college, school, or department. To be eligible for degrees awarded with honors, candidates must have earned more than 50 percent of their total college credits at LSU. Two grade-point averages will be computed for each student: (1) on all work completed and (2) on all work completed at LSU. The lower of the averages will be used to determine eligibility for honors.

At each commencement, the University medal for ‘‘Highest Academic Achievement’’ is awarded to the undergraduate student (or students) graduating with the highest grade-point average, provided that more than 50 percent of the student’s total college credits have been earned at LSU. Grade-point averages will be computed for (1) all work completed and (2) all work completed at LSU, with the lower of the two averages determining eligibility for the medal.

Students in combined undergraduate-professional curricula who have earned more than 50 percent of their preprofessional credits in an undergraduate college of this University* with a grade-point average greater than or equal to 3.70 are eligible to receive their degrees with honors. To determine honors, the student’s average for each year of work during the period of matriculation at LSU is added to the average furnished by the professional school and divided by the number of years the student has been enrolled at both institutions.

*Includes all campuses of the LSU System.
LSU-Southern University Cooperative Programs

LSU and Southern University have conducted cooperative programs for a number of years. A student exchange program began in 1970, and exchange of faculty and cooperation in research have also occurred. In recent years, the number and extent of cooperative efforts between the two institutions have greatly increased.

STUDENT EXCHANGE

LSU and SU students may take courses at the other institution under an expanded and simplified cross-registration program between the two universities. Frequently this program enables students to take courses not available at the institution where they matriculate. Both full-time and part-time students are eligible to participate. Full-time students pay no additional fees; part-time students pay fees based on the total number of hours for which they are registered.

Work taken at Southern University is recorded as transfer credit, as is all course work taken outside the LSU System. For LSU students, academic action is taken only on the basis of LSU work.

Interested students can obtain information from the Office of Student Records and Registration at LSU, the Registrar's Office at SU, and the offices of academic deans at both institutions.

FACULTY EXCHANGE

Each year at least 20 members of the LSU faculty teach one or more courses at SU, and at least 10 members of the SU faculty teach one or more courses at LSU. This faculty exchange serves to enrich the offerings of both institutions. Participants are designated as adjunct faculty at the other institution.

LIBRARY PRIVILEGES

Participants in the faculty and student exchange are allowed the same library privileges granted to members of the faculty and student body at the home institution. Students and faculty not participating in these exchanges also have access to the library at the other institution.
ACADEMIC PROGRAMS

Chemistry and Chemical Engineering

This program enables a student to earn a Bachelor of Science degree with a major in chemistry from Southern University and a Bachelor of Science in Chemical Engineering degree from LSU within a period of approximately five years. At least three-fourths of the hours required for the Southern University bachelor's degree must be earned at Southern University. The student may then be admitted to LSU to complete requirements for the Bachelor of Science in Chemical Engineering degree. Such students qualify for all benefits of the student exchange program.

Computer Science

Since the inception of LSU's undergraduate curriculum in computer science, the Departments of Computer Science at LSU and SU have engaged in a faculty exchange in which an LSU faculty member teaches a course at SU. In 1975, the interdisciplinary program leading to the Master of Science in Systems Science was established, with LSU, SU, and the University of Southwestern Louisiana participating. Faculty members from all three universities cooperate in curricular matters and advising of students. When LSU began offering the Ph.D. in computer science in 1983, an agreement of cooperation between LSU and SU was signed setting forth articulation guidelines for the Ph.D. program, the systems science program, and SU's M.S. program in computer science. An additional faculty exchange involves research faculty members from each university who hold part-time appointments at the other.

Environmental Sciences

The Master of Science degree in environmental sciences, a cooperative, multidisciplinary program between LSU and SU, requires a minimum of 24 semester hours of course work and six hours of thesis research. Four options are available: environmental toxicology and environmental management systems offered at LSU and environmental biology and environmental chemistry offered at SU. A graduate student at either institution may register for any of the four options. Four core courses are common to all options and must be taken by all students. Different areas of concentration permit the design of individual and specialized job-oriented programs.

Mechanical and Petroleum Engineering

SU students enrolled in the mechanical engineering curriculum may elect a petroleum engineering option. Such students take six credit hours of specified chemistry courses at SU and 12 hours of specified petroleum engineering courses at LSU.

Naval Science

Through a cross-enrollment agreement between LSU and SU, LSU students are eligible to enroll in the SU Naval Reserve Officers Training Corps leading to a commission in the U.S. Navy or Marine Corps. Naval ROTC is open to all students, and many naval science courses are taught on the LSU campus. For additional information, see the "Reserve Officers Training Corps" section of this catalog.

Public Administration

The School of Public Policy and Urban Affairs at SU offers a Master of Public Administration degree in cooperation with the Department of Political Science at LSU. Four political science faculty members have been designated by LSU as core faculty who teach courses in the SU program. Students in the program are required to take a minimum of nine semester hours of political science courses at LSU. Fellowships are available for other-race applicants, with special consideration given to LSU graduates. Graduate-level work in political science at LSU will transfer as credit in the SU M.P.A. program. Students in the SU program also have access to LSU library and computer facilities.
School Librarianship

A teaching minor in library science leading to certification as a school librarian is offered jointly by LSU and SU, with each university providing a portion of the required course work. See the "College of Education" section of this catalog or contact the Department of Administrative and Foundational Services for program requirements.

Special Education

LSU and SU have entered into a joint cooperative teacher training program at the graduate level in the area of special education. Students may matriculate at either LSU or SU and take an unlimited number of courses from either of the institutions for credit. Student exchange at the undergraduate level is encouraged.

Students who enroll in the graduate program in special education at LSU must take a minimum of six semester hours at SU; those enrolled at SU must take a minimum of six semester hours at LSU. These hours count as resident credit and do not preclude a student from transferring the maximum number of graduate hours from another institution.

In addition, each semester LSU faculty in special education will teach at SU, and SU faculty will teach at LSU. For additional information, contact personnel in the special education program at either LSU or SU.
General Education Requirements

Since the fall semester of 1987, LSU has required that all students entering the University complete a general education component of 39 semester hours in six major areas:
• English composition (six hours)
• Analytical reasoning (six hours)
• Arts (three hours)
• Humanities (nine hours)
• Natural sciences (nine hours)
• Social sciences (six hours)

This campus-wide general education requirement is designed to produce students who have developed:
(1) an effective command of written and spoken English, (2) an informed appreciation of the roles of the arts and the humanities, (3) a familiarity with the nature and function of the social sciences, (4) an appreciation of the methods of critical inquiry, (5) an ability to deal with moral and ethical issues, (6) a rational basis for selecting a vocation, (7) an understanding of other cultures and other times, (8) a comprehension of how knowledge is accrued and applied, and (9) a keen sense of their places in society and the universe.

Regulations

1. Students must complete the 39-hour general education requirement prior to graduating from LSU. It is recommended that students complete the requirement during their first four semesters at the University.

2. Only those courses on the approved list below, and their honors equivalents, may be used to satisfy the general education requirement.

3. No more than six hours of credit taken through correspondence study may be applied to a student’s general education requirement.

4. An entering student may receive three or six hours of credit in English composition on the basis of ACT scores and/or performance on approved placement tests.

5. An entering student may receive credit for one or more of the required mathematics courses on the basis of placement test scores.

6. Advanced placement and advanced standing credit may be used to satisfy the general education requirement.
7. General education courses will be graded on the "A," "B," "C," "D," "F" system. No courses taken on a pass/fail basis will count toward the general education requirement.

8. A request for an exception to the general education requirement must be submitted to the dean of the student’s college. The student’s request and the dean’s evaluation of that request must be submitted to the Office of Academic Affairs for a final decision.

Transfer Course Approval

If it is determined upon admission that a course is equivalent to an LSU course, then that course may be used to satisfy the general education requirement. If the course is similar in content and level, the student may petition his or her dean and request that the course be applied to LSU’s general education requirement. If the course is not judged to be similar, the dean may refer the decision concerning the course to the Office of Academic Affairs for further consideration.

PASS and Nonmatriculated Students

PASS and nonmatriculated students must meet the requirements of the catalog under which they enter a degree program.

GENERAL EDUCATION COURSES

AREA/COURSES                                      SEM. HRS.
I. ENGLISH COMPOSITION ................................. 6
   All students must have credit in English 1001 and 1002 or the equivalent.

   English
   1001 (1004) English Composition  ................... 3
   1002 (1005) English Composition  ................... 3

   Honors
   1001 Seminar in Ancient Western Civilization  .... 3
   1101 Seminar in Comparative Civilizations  ........ 3

II. ANALYTICAL REASONING ............................... 6
   Students earning credit in Mathematics 1023 may not also earn credit in 1022. All students must have credit in Mathematics 1021 or Mathematics 1023, plus one additional course from the following:

   Computer Science
   1248 Introduction to Pascal Programming. .......... 3

   Experimental Statistics
   4001 Statistical Methods. ............................... 4

   Mathematics
   1022 Plane Trigonometry . ............................. 3
   1100 The Nature of Mathematics  .................... 3
   1431 Calculus with Business and Economic Applications 3
   1435 Mathematics for Business Analysis  .......... 3
   1441 Calculus with Application to Technology ....... 5
   1550 Analytic Geometry and Calculus—I  ........... 5
   1552 Analytic Geometry and Calculus—II  .......... 5

   Philosophy
   1021 Introduction to Philosophy: Elementary Logic. 3
   2010 Introduction to Logical Theory  ................ 3

III. ARTS ................................................. 3

   Architecture
   2141 History of Architecture  ....................... 3
   2142 History of Architecture  ....................... 3
   2401 Appreciation of Architecture  .................. 3

   Art
   1001 Introduction to Fine Arts  ..................... 3
   1011 Art Structure.  .................................. 3
   1440 Historical Survey of the Arts  .................. 3
   1441 Historical Survey of the Arts  .................. 3
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Music</td>
<td></td>
</tr>
<tr>
<td>1751 Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>1752 Music Appreciation</td>
<td>3</td>
</tr>
<tr>
<td>1753 Survey of Music History—I.</td>
<td>3</td>
</tr>
<tr>
<td>1754 Survey of Music History—II.</td>
<td>3</td>
</tr>
<tr>
<td>1799 Rudiments of Music</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy</td>
<td></td>
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<tr>
<td>2023 Philosophy of Art.</td>
<td>3</td>
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<tr>
<td>Theatre</td>
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<tr>
<td>1020 Introduction to Theatre</td>
<td>3</td>
</tr>
<tr>
<td>2028 Introduction to Dramatic Form</td>
<td>3</td>
</tr>
<tr>
<td>IV. HUMANITIES</td>
<td></td>
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<tr>
<td>Communication Disorders</td>
<td></td>
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<tr>
<td>2050 Introduction to Language</td>
<td>3</td>
</tr>
<tr>
<td>English</td>
<td></td>
</tr>
<tr>
<td>2020 A Survey of English Literature from the Beginning to 1798</td>
<td>3</td>
</tr>
<tr>
<td>2022 A Survey of English Literature—from 1798 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>2025 Introduction to Fiction</td>
<td>3</td>
</tr>
<tr>
<td>2027 Introduction to Drama and Poetry</td>
<td>3</td>
</tr>
<tr>
<td>2070 Major American Writers</td>
<td>3</td>
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<tr>
<td>2148 Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>French</td>
<td></td>
</tr>
<tr>
<td>2053 Intermediate French</td>
<td>3</td>
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<tr>
<td>2055 Readings in French Literature</td>
<td>3</td>
</tr>
<tr>
<td>2071 Survey of French Literature</td>
<td>3</td>
</tr>
<tr>
<td>2072 Survey of French Literature</td>
<td>3</td>
</tr>
<tr>
<td>3001 French Culture and Civilization</td>
<td>3</td>
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<tr>
<td>German</td>
<td></td>
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<tr>
<td>2053 Intermediate German</td>
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<td>2055 Readings in German Literature</td>
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<tr>
<td>3083 Survey of German Literature, 1830-1890</td>
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<td>3084 Survey of German Literature, 1890-Present</td>
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<td>Greek</td>
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<td>2053 Homer</td>
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<td>2055 Greek Drama</td>
<td>3</td>
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<td>2075 Classical Epic in Translation</td>
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<td>3032 Greek and Roman Tragedy in English Translation</td>
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<td>3040 Greek and Roman Comedy in English Translation</td>
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<td>1001 Seminar in Ancient Western Civilization</td>
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<td>1101 Seminar in Comparative Civilizations</td>
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<td>2002 Seminar in Roman, Medieval, and Renaissance Civilizations</td>
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<td>3001 European Civilization from 1500 to 1789—The Old Regime</td>
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<td>3003 Western Civilization from 1789—Modern World</td>
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<td>Italian</td>
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<td>2055 Readings in Italian Literature</td>
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<td>2071 Survey of Italian Literature</td>
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<td>2072 Survey of Italian Literature</td>
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<tr>
<td>3001 Italian Culture and Civilization</td>
<td>3</td>
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<tr>
<td>Latin</td>
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<td>2053 Intermediate Latin</td>
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<tr>
<td>2065 Golden Age Narrative Poetry</td>
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<td>2066 Golden Age Prose</td>
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<td>2074 Golden Age Lyric Poetry</td>
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<td>4010 Survey of Latin Literature</td>
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<tr>
<td>Philosophy</td>
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<td>1000 Introduction to Philosophy</td>
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<tr>
<td>2020 Ethics</td>
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<tr>
<td>2024 Philosophy in Literature</td>
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<tr>
<td>2028 Philosophy of Religion (see also REL 2028)</td>
<td>3</td>
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<tr>
<td>2033 History of Ancient and Medieval Philosophy</td>
<td>3</td>
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<tr>
<td>2035 History of Modern Philosophy</td>
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<td>Religious Studies</td>
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<td>1003 Introduction to Religion</td>
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<tr>
<td>1004 Old Testament</td>
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1005 New Testament .......................................................... 3
2001 Faith and Doubt .......................................................... 3
2027 Eastern Religions ...................................................... 3
2028 Philosophy of Religion (see also PHIL 2028) .............. 3
2029 Judaism, Christianity, and Islam ............................... 3

**Russian**
2053 Intermediate Russian ............................................. 3
2055 Readings in Russian Literature ................................. 3
2075 Introduction to Russian Culture and Civilization .......... 3
4081 Russian Literature in Translation: 19th Century .......... 3

**Spanish**
2053 Intermediate Spanish ............................................. 3
2055 Readings in Spanish Literature ................................. 3
3071 Survey of Spanish Literature .................................... 3
3072 Survey of Spanish Literature .................................... 3

**Speech Communication**
2010 Interpersonal Communication .................................. 3
2040 Interpretative Reading ............................................ 3
2060 Public Speaking .................................................... 3
2063 Argumentation and Debate ...................................... 3
2862 Honors: Contemporary Public Address ...................... 3

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*Students are required to take course work in both the biological and the physical sciences, with a two-semester sequence in one area or the other.*

**BIOLOGICAL SCIENCES**

**Biology**
1001 General Biology .................................................... 3
1002 General Biology .................................................... 3

**Botany**
1001 General Botany ..................................................... 4
1002 General Botany ..................................................... 4

**Honors**
1007 Introduction to Life Sciences .................................. 4
1008 Introduction to Life Sciences .................................. 4

**Microbiology**
1001 Microorganisms and Man ....................................... 3

**Zoology**
1001 Introductory Zoology ............................................. 4
1002 Introductory Zoology ............................................. 4

**PHYSICAL SCIENCES**

**Astronomy**
1101 The Solar System .................................................. 3
1102 Stellar Astronomy .................................................. 3
1111 Introductory Astronomy ......................................... 3
1112 Introductory Astronomy ......................................... 3

**Chemistry**
1001 General Chemistry for Non-Science Majors ................ 3
1002 General Chemistry for Non-Science Majors ................ 3
1201 Basic Chemistry .................................................... 3
1202 Basic Chemistry .................................................... 3
1421 Honors: Introductory Chemistry .............................. 3
1422 Honors: Introductory Chemistry .............................. 3

**Geography**
2050 Physical Geography: The Atmosphere ....................... 3
2051 Physical Geography: Land and Water Surfaces, Plant and Animal Realms .................................................. 3

**Geology**
1001 General Geology: Physical ...................................... 3
1003 General Geology: Historical .................................... 3

**Physical Science**
1001 Physical Science .................................................. 3
1002 Physical Science .................................................. 3

**Physics**
1201 General Physics for Physics Majors .......................... 4
1202 General Physics for Physics Majors .......................... 4
<table>
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<tr>
<th>Course</th>
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<td>2002 General Physics</td>
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<tr>
<td>2101 General Physics for Technical Students</td>
<td>3</td>
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<tr>
<td>2102 General Physics for Technical Students</td>
<td>3</td>
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<tr>
<td>2401 Introduction to Concepts in Physics</td>
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<tr>
<td><strong>VI. SOCIAL SCIENCES</strong></td>
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<tr>
<td><strong>Anthropology</strong></td>
<td></td>
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<tr>
<td>1001 Introduction to Physical Anthropology and Prehistory</td>
<td>3</td>
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<tr>
<td>1003 Introduction to Cultural and Social Anthropology</td>
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<tr>
<td>2015 Introduction to Archaeology</td>
<td>3</td>
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<tr>
<td>2051 Introduction to World Ethnography</td>
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<tr>
<td><strong>Economics</strong></td>
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<tr>
<td>2010 Economic Principles and Problems</td>
<td>3</td>
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<tr>
<td>2020 Economic Principles and Problems (continued)</td>
<td>3</td>
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<td>2030 Economic Principles</td>
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<td><strong>Geography</strong></td>
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<td>1001 Human Geography</td>
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<td>1003 Human Geography</td>
<td>3</td>
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<td><strong>German</strong></td>
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<td>2075 German Civilization</td>
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<td><strong>History</strong></td>
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<td>1001 History of Western Civilization</td>
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<tr>
<td>1003 History of Western Civilization</td>
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<tr>
<td>2001 History of the Ancient Orient and Greece</td>
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<td>2002 History of Rome</td>
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<td>2011 English History</td>
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<td>2012 English History</td>
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<td>2021 Modern European History</td>
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<td>2022 Modern European History</td>
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<td>2055 American History</td>
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<td>2057 American History</td>
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<td><strong>Honors</strong></td>
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<tr>
<td>1003 Lectures in Ancient Western Civilization</td>
<td>3</td>
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<tr>
<td>1103 Lectures in Comparative Civilizations</td>
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<td>2004 Lectures in Roman, Medieval, and Renaissance Civilization</td>
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<td>3001 European Civilization from 1500-1789—The Old Regime</td>
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<td>3003 Western Civilization from 1789—The Modern World</td>
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<td><strong>Political Science</strong></td>
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<tr>
<td>1001 Fundamental Issues of Politics</td>
<td>3</td>
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<td>2051 American Government</td>
<td>3</td>
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<td>2053 Contemporary Political Systems</td>
<td>3</td>
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<tr>
<td>2057 Introduction to International Politics</td>
<td>3</td>
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<tr>
<td>2060 Introduction to Political Theory</td>
<td>3</td>
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<td><strong>Psychology</strong></td>
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<td>2000 Introduction to Psychology</td>
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<td>2004 Psychology of Adjustment</td>
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<td>3081 Personality</td>
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<td><strong>Sociology</strong></td>
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<tr>
<td>2001 Introductory Sociology</td>
<td>3</td>
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<td>2411 Industrial Society</td>
<td>3</td>
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<td>3601 Social Interaction</td>
<td>3</td>
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<tr>
<td>4111 Development of Social Thought</td>
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</table>

**Regents' Certificate of Excellence**

In April 1986, the Louisiana Board of Regents adopted a policy through which students who complete a suggested, 50-hour general education program may be awarded a Certificate of Excellence. To qualify for the certificate, baccalaureate graduates must have attained a 3.00 grade-point average ("A" = 4.0) in all course work taken and must have completed the following general education requirements:

**ENGLISH**
Six hours (Composition)
Three hours (Literature)
Six hours

**MATHEMATICS**

**COMPUTER LITERACY**
(Requirements to be determined by each campus)
General Education Requirements

NATURAL SCIENCES
Eleven hours (To be met by taking required courses for majors; to include laboratory courses)

ARTS
Three hours

HUMANITIES
Fifteen hours (To include at least three hours at the sophomore level or above; to include at least six credit hours of a foreign language above the introductory level)

SOCIAL SCIENCES
Six hours

Total
Fifty hours

Students may obtain equivalent credit for required or suggested course work in accordance with policies and procedures in other colleges or universities, e.g., for advanced-placement (AP) tests of the College Board or the College-Level Examination Program (CLEP). The Board of Regents recommends (but does not require) that each student take a course in philosophy/ethics to clarify his or her moral values. No credit hours earned in introductory foreign language course work can be used to fulfill requirements for the Regents’ Certificate of Excellence. Introductory course work (or its equivalent) and advanced course work must be in the same foreign language.
Junior Division

LAURA F. LEMOINE, Dean; Director of Developmental Education
CAROLYN C. COLLINS, Associate Dean
KAYLENE A. GEBERT, Director of Student Support Services;
Associate Director of Developmental Education
SHARON HANCOCK, Director of Counseling
150 Allen Hall (504) 388-6822

Junior Division is the academic college for all students who intend to pursue a degree at LSU. In addition, Junior Division serves as the academic college for all other students who have attempted less than 60 semester hours of work and have not been admitted to a senior college.

Junior Division has four chief functions: (1) to give students who have not definitely decided on a curriculum an opportunity to make an informed decision during their first year of college work; (2) to give students the benefit of professionally trained college counselors; (3) to supply the various senior colleges with a select group of students prepared to engage in specialized training and education; and (4) to coordinate and implement the University’s developmental and advanced-standing programs.

The chief administrative officer of Junior Division is the dean. The Junior Division Advisory Council, composed of representatives of academic departments, advises the dean in administration of the academic affairs and policies of the division. The Junior Division Advisory Board, composed of business and professional people, sponsors the division’s development and scholarship funds. The Junior Division Student Advisory Board provides input to, analysis of, and feedback about programs and services. The members of the Junior Division Developmental Education Advisory Council are faculty and administrators who advise the dean on developmental education policies.

COUNSELING AND FRESHMAN ORIENTATION

Every Junior Division student has access to the full-time counseling staff. Students may obtain assistance from counselors in curriculum selection, career guidance, college study skills, and in working through problems of an academic or personal nature.

Junior Division coordinates departmental academic advising for all students who have not been admitted to a senior college. These services provide personal contact between each Junior Division
student and a counselor or faculty member from the department in which the student has expressed special interest.

During invitational spring testing, pre-enrollment counseling, and other special preregistration programs, Junior Division provides orientation sessions, placement and advanced-standing examinations, and advisory services as a means of assisting new students to begin a successful college program at the University. In addition, special briefings are scheduled just prior to registration as a way of familiarizing students with registration procedures.

AMERICAN COLLEGE TESTING PROGRAM

Students planning to enter the University must take the American College Testing Program examination (ACT) prior to registration. Results of the test should be sent to LSU. Scores on this test are used to place the student in courses at the most appropriate level and to determine eligibility for advanced-placement credit. ACT scores are also valuable in helping the student set educational objectives.

The test is offered five times a year on a regular schedule at school and college centers throughout the U.S. and Canada and in some foreign countries. Information about registration for the test may be obtained from the Measurement and Evaluation Center, 51 Himes Hall, (504) 388-1145; any high-school guidance counselor; or the Registration Department, American College Testing Program, P.O. Box 414, Iowa City, Iowa 52240.

SCHOLASTIC APTITUDE TEST (SAT)

Students who have taken the SAT should have their scores sent to LSU. Scores on this test are used to place the student in courses at the most appropriate level and to determine eligibility for advanced-standing credit. Students should consult a Junior Division counselor for information on SAT placement.

CURRICULUM FOR THE FRESHMAN YEAR

Freshmen who have decided on a field of study, and who want to graduate in the minimum time, should follow the freshman-year curriculum suggested by the college offering their field of study. Occasionally, course substitutions must be made because of a student’s initial placement in mathematics, English, or reading. Students who have not decided on a field of study are encouraged to participate in academic and career counseling sessions during their first semester by making an appointment with a Junior Division counselor.

Junior Division students may schedule up to 19 hours in any regular semester (ten hours in the summer). In exceptional cases, permission to receive credit for more than 21 hours taken in one regular semester, may be granted by the dean.

CLASSIFICATION OF JUNIOR DIVISION STUDENTS

Students in Junior Division are classified as JD-1 or JD-2.

Beginning freshmen are classified as JD-1; this classification will apply until they have earned a maximum of 29 semester hours of credit or have met requirements for admission to a senior college.

Students who have earned from 30-59 semester hours of credit, but who have not met requirements for admission to a senior college, are classified as JD-2.

Students whose cumulative record shows a total of 60 semester hours attempted may not continue to register in Junior Division.

ELIGIBILITY TO ENROLL IN COURSES NUMBERED ABOVE 1999

Junior Division students may enroll in courses numbered above 1999 in accordance with the following regulations:

1. Courses numbered 2000-2999: For undergraduate students, sophomore level or above; for undergraduate credit only. It is not advisable for a freshman to register for a sophomore-level course unless the student has a 2.50 gpa or a composite ACT score of at least 23.
2. Courses numbered 3000-3999: For advanced undergraduate students, junior- and senior-level; for undergraduate credit only. Junior Division students may be permitted to register for courses numbered 3000-3999 only if they have 60 semester hours of credit or departmental approval.

3. Courses numbered 4000 and above: See "Course Numbering System" in the "Courses of Instruction" section of this catalog.

HONORS PROGRAM

Entering freshmen whose ACT composite scores are 27 or higher are invited to apply for admission to the Division of Honors and Interdisciplinary Studies of the College of Arts and Sciences. Students who do not qualify upon entering LSU, but who do exceptionally well in their first semester, may apply for the second semester.

The core courses of the freshman honors curriculum are Honors 1001/1003, or 1101/1103, and 2002/2004. The team-taught interdisciplinary courses investigate the historical, conceptual, and cultural roots of Western civilization. Completion of these courses may satisfy the English, social science, and/or liberal arts requirement for the freshman year in most curricula.

For further information on this program see "Division of Honors and Interdisciplinary Studies," in the "College of Arts and Sciences" section of this catalog.

ADVANCED-STANDING EXAMINATIONS

Students of superior ability and preparation and students who have already gained a fundamental knowledge of subjects offered at the University may earn degree credit through advanced-standing examinations in specific courses. Advanced-standing examinations in mathematics, calculus, foreign languages, and chemistry are offered during the Spring Testing and Pre-Enrollment Counseling Programs for entering freshmen. Scores earned on the American College Test (ACT) are used as a basis for allowing credit in freshman English. Advanced-Placement credit will be granted in appropriate subjects to freshmen who earn a grade of 3, 4 or 5 on Advanced-Placement (AP) Examinations of the College Board. Policies governing acceptance of credit and required scores for subject examinations are established by the appropriate LSU academic departments. Information on credit earned, through ACT, AP or CLEP is available from a Junior Division counselor or the Office of Admissions. Further information concerning regulations that apply to these examinations is given in the section, "University Regulations."

ACADEMIC SKILLS ENHANCEMENT PROGRAM

The Academic Skills Enhancement Program (ASEP), administered by Junior Division, is designed for students who lack certain academic skills required in various standard freshman-level courses. The program consists of writing skills (English 0003 and 0006), quantitative skills (Mathematics 0091 and 0092), and reading skills (JD 0010 and 0011). Mathematics 0091 and 0092 are graded "A" to "F.") Other ASEP courses are graded on a pass/no credit basis. Students are required to repeat a course until they earn a passing grade. Students are placed in the program according to their levels of proficiency in each academic area and may take one or more of the ASEP courses. As a result, students should increase their chances of success in attaining their educational goals.

STUDENT SUPPORT SERVICES PROGRAM

Student Support Services is a federally supported program designed to provide academic services for 250 students who meet program guidelines. Students must have potential for success but need additional services as they begin, continue, or resume their college education. The Student Support Services Program includes study skills (JD 0006), reading skills (JD 0016), peer tutoring and counseling, academic advising and counseling, career information, cultural enrichment, and referrals to other agencies and resources to resolve problems related to academic success. Counselors also provide assistance to handicapped and learning disabled students. The goal of the program is to increase retention and graduation rates of these students. Further information may be obtained from the Student Support Services Office, 136 Allen Hall.
ADMISSION TO A SENIOR COLLEGE FROM JUNIOR DIVISION

Junior Division students may enter a senior college when they:

1. earn 24 or more semester hours of credit in courses numbered 1000 and above and have
   at least a 2.00 grade-point average on all work attempted;
2. meet the reading proficiency requirements of Junior Division (see the “Proficiency in
   Reading” section, below); and
3. meet the special admission requirements of the senior college they intend to enter.

Students who have attempted 60 or more semester hours without achieving at least a 2.00
cumulative grade-point average are not eligible to remain in Junior Division and will not normally
be allowed to enroll in a senior college. To continue in the University beyond the 60 hour limit,
a student must have a positive recommendation from the Junior Division Advisory Council or be
accepted by a senior college.

PROFICIENCY IN READING

Junior Division students whose reading skills are below the 12th-grade level, as determined by
ACT scores and/or a diagnostic reading test, will be placed in a reading course. Students may not
be admitted to a senior college until they pass JD 0011 or 0016, or they are exempted.

SCHOLASTIC REGULATIONS FOR JUNIOR DIVISION STUDENTS

Definitions

Cumulative Average: A student’s cumulative average is calculated by dividing the total
number of quality points earned by the total number of semester hours attempted.

Good Academic Standing: The typical status of a student who has an overall 2.0 (“C”)
grade-point average.

Scholastic regulations embody the academic standards of a university. The goal of the following
regulations is to insure that a student makes satisfactory academic progress. Continued enrollment
by individuals who have shown a lack of necessary ability, preparation, industry, or maturity to
make such progress and to benefit from a program of university study is inconsistent with the
purposes and responsibilities of the University.

Scholastic Probation

a. Students can be placed on scholastic probation only on the basis of unsatisfactory grades
   made in college.
b. Students who have carried 11 semester hours or less of college work will be placed on
   scholastic probation if their cumulative average is less than 1.50.
c. Students who have carried from 12 to 23 semester hours will be (1) dropped from the University
   if their cumulative average is below 1.00 (“D”); or (2) placed on scholastic probation if their
   cumulative average is at least 1.00 but less than 1.50.
d. Students who have carried 24 or more semester hours of college work will be (1) dropped
   from the University if their cumulative average is below 1.00; or (2) placed on scholastic
   probation if their cumulative average is at least 1.00 but is 10 or more quality points below
   2.00 (“C”).
e. Students on scholastic probation will be dropped from the University if their average for a
given semester or summer term is less than 2.00 (“C”) on either LSU or transfer work.
f. Once placed on probation, students will remain on probation each enrollment until they have
   earned a 2.00 cumulative average on both LSU and transfer work.

Students Dropped from the University

a. Students who are dropped for the first time for academic reasons are not eligible for consider-
   ation for readmission until they have been out of the University for one regular semester.
   Readmission may be delayed or denied at the discretion of the dean.
b. Students who have been dropped twice for academic reasons must remain out of the University for at least one calendar year. They may then apply for readmission, which may be delayed or denied at the discretion of the dean.

c. Students dropped for scholastic reasons may not use credits earned at another institution during the period of their ineligibility to register in this University in fulfillment of their LSU degree requirements. They may, however, register on a noncredit basis for correspondence courses offered by the University.

d. Students who have been readmitted after having been dropped for academic reasons will be on scholastic probation when they return.

Transfer Students

If enrolling in Junior Division, students from institutions outside the LSU System who qualify for admission to the University will be placed on an academic status in accordance with the above scholastic regulations.

Withdrawal Grades

A "W" will be entered on the record of any student for any course dropped within the dates specified in the "Calendar." In extraordinary cases, the dean of a student's college may authorize a resignation and/or a drop from a course after the last dates specified.

ATTENDANCE POLICIES

Students are expected to attend all classes regularly and punctually. The office of the dean of Junior Division gives excuses only in two situations:

a. as directed by the Office of Academic Affairs (such excuses are usually limited to groups participating in University-sponsored activities off campus); or

b. when convincing evidence is presented to Junior Division that students must miss midsemester or final examinations due to circumstances beyond their control. In such cases students may take special examinations with approval of the dean of Junior Division.

All other absences are subject to the attendance policies and procedures of instructors. Students should understand that these policies vary among instructors and that they must comply with the attendance requirements of each instructor.

If circumstances cause unavoidable, extended periods of absence, students should notify the office of the dean of Junior Division, which will send an explanation to instructors concerned. Upon returning to class, students should clear all absences with each instructor.

Students who decide to withdraw from a course or from the University must follow procedures prescribed by the University. This procedure involves a formal withdrawal process through the dean’s office. Students who discontinue a class or leave school without following the official procedures are subject to permanent failing grades and/or denial of permission to reenter the University.
The College of Agriculture at LSU is an integral part of the land grant college system. The college includes 11 departments and three schools with a faculty exceeding 206 members. Of these faculty members, 164 are jointly employed by the LSU Agricultural Center. The college is closely connected in all phases of its work with the U.S. Department of Agriculture and many other federal and state agencies concerned with agriculture, forestry, conservation, natural resources, home economics, vocational education, industrial arts/technology education, rural and community development, and related fields.

The programs of the college are organized and conducted primarily to serve the people of Louisiana, but are also intended to prepare students for service throughout the nation and the world. In addition to traditional course work related directly to the production, processing, and marketing of plants and animals and their products, the college provides training (coordinated with research and extension) in many other areas particularly relevant to current problems and opportunities. These include such areas as fisheries and seafood, wildlife, development of human resources, rural and community development, natural resource use, family life, land and water economics, and problems of underdeveloped countries.

The teaching divisions of the college, the various curricula, and the degrees which may be earned are shown in the chart on the following page.

OBJECTIVES

One objective of the college is to give students a well-balanced education in the basic and applied sciences of agriculture and related fields. An additional objective is to provide cultural experiences necessary for the full development of the individual and to graduate educationally rounded, mature, and capable men and women, prepared to assume the responsibilities of citizenship and to contribute meaningfully to the well-being of society through their chosen fields of endeavor.
For the curriculum in biological and agricultural engineering, see the College of Engineering.
COORDINATION WITH THE LSU AGRICULTURAL CENTER

The College of Agriculture offers a unique educational opportunity through a coordinated program of mutual cooperation with the LSU Agricultural Center which includes the Louisiana Agricultural Experiment Station and the Louisiana Cooperative Extension Service. The experiment station has research programs in Baton Rouge and at branch stations throughout Louisiana. The extension service disseminates results of that research throughout Louisiana through specialists in Baton Rouge and county agents and home economists in every parish. The cooperation between the college and the center gives the college a strong instructional program, providing students with up-to-date knowledge to help solve complex problems in their chosen fields. Since most of the faculty members of the college also hold research or extension appointments on the staff of the center, students are exposed to new areas of knowledge as faculty members bring the results of their work directly into classroom discussion. Similarly, students in the college benefit from the close relationship with the extension service. As extension specialists and researchers apply new knowledge to real-life problems, there is feedback through the teacher-researcher directly to the classroom. Students, thus, gain an appreciation of the relationship between academic solutions and real-world problems and also learn how to test new knowledge by practical application.

Students in the college also profit from the experience and activities of faculty on the center’s staff who participate in research, extension, and teaching assignments in many other countries throughout the world, and who bring these experiences back to the classroom. The center is particularly active in Central America, Jamaica, Southeast Asia, and West Africa.

FACILITIES

Facilities available for instructional purposes include over 4,500 acres of farm and timber land and buildings for the care and study of crops, livestock and poultry, and wildlife and forests. Livestock include herds of Hereford, Polled Hereford, Angus, and Brahman cattle and other crosses. Breeds of sheep include Louisiana-native and Suffolk. Herds of swine include Hampshire, Duroc, and Yorkshire breeds and their crosses. A number of quarter horses are maintained for research and instruction. The dairy herd is composed of Brown Swiss, Guernsey, Holstein, and Jersey breeds. The Dairy Improvement Center is the hub of the artificial breeding program in Louisiana. Commercial strains of poultry are used in instruction and research. Computer facilities, laboratories, and related research facilities are used for teaching purposes. Land and facilities at branch research stations throughout Louisiana also play a part in the teaching program, particularly at the graduate level. The state’s land and water resources; plant, animal, and aquatic life; and its communities and people serve as instructional aids through a constantly changing complex of hundreds of research projects throughout the state that are coordinated with the teaching program. Similarly, research, teaching, and extension activities in foreign countries make those experiences and areas part of the facilities and knowledge available for classroom instruction on campus.

ADMISSION REQUIREMENTS

Within the framework of University regulations, students may be admitted to the college according to the following policies:

a. Students admitted from Junior Division must have completed a minimum of 24 semester hours with a 2.00 average on all work taken.

b. Students admitted from other divisions of the University are expected to meet the same requirements as those admitted from Junior Division.

c. Transfer students from accredited colleges and universities who have met the general entrance requirements of the University and who have pursued college courses equivalent to those offered in Junior Division may be admitted to the college on the same conditions as those governing the entrance of students from Junior Division. Transfer credits acceptable for admission purposes shall be valid for degree credit in the college only to the extent to which they represent courses acceptable in the curricula of the college. Transfer students applying for credit in any department or school within the college may be required to take a comprehensive examination before credit is allowed.
d. On recommendation of the appropriate department head and the dean of the college, probationary admission may be granted in special cases.

DEGREE REQUIREMENTS OF THE COLLEGE

The baccalaureate degree is conferred on students who fulfill the following degree requirements.

1. All students must have a grade-point average of 2.00 on all work taken, except for those courses taken in which grades of "P," "W," or "I" were recorded.

2. Meet the college's English proficiency requirement. To be declared proficient in English, students must earn a grade of "C" or better in English 1002, 1003, or 1005 (for international students only). Those who fail to do so must earn a grade of "C" or better in English 3002 or earn a score of at least 298 on the English Proficiency Examination.

3. The last 30 semester hours presented for the degree must be taken in residence in the College of Agriculture. Courses taken through correspondence study in the last 30 hours will not be considered residence credit without prior approval of the department head concerned and the dean of the college.

CORRESPONDENCE AND EXTENSION CREDITS

Up to one-fourth of the number of hours required for the baccalaureate degree may be taken through the Division of Continuing Education, either by correspondence study or extension classes or both. Before scheduling such work, however, students should obtain approval from the dean.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

In order to receive a second bachelor's degree in this college, a student must complete a minimum of 30 semester hours beyond the hours earned for the first degree.

GRADUATE PROGRAMS

Through the Graduate School, the college offers master's and doctoral degrees in the fields of agricultural economics, agronomy, animal science, dairy science, entomology, food science, forestry, horticulture, plant pathology, and vocational education. A doctoral degree in wildlife and fisheries science is also offered. In addition, master's degrees are offered in applied statistics, fisheries, home economics, poultry science, and wildlife. For further details, consult the Graduate School Catalog.

AGRICULTURAL STUDENTS ASSOCIATION

The Agricultural Students Association brings the various agricultural organizations together for cooperative enterprises. Membership includes student officers of the college and elected representatives from all agricultural organizations. The association serves as a student advisory group to the dean of the college.

Departments and Curricula

The dean, directors of schools, heads of departments, and members of the faculty of the college will consult with students on their choice of curriculum. Requests for substitutions for required courses in all curricula in the college must have approval of the dean upon recommendation of the head of the department or school. A maximum of six semester hours of basic ROTC and eight semester hours of advanced ROTC may be allowed for elective credit in any curriculum.

DEPARTMENT OF AGRICULTURAL ECONOMICS AND AGRIBUSINESS

HEAD: Guedry, Professor

OFFICE: 101 Agricultural Administration Building

TELEPHONE: (504) 388-3282

PROFESSORS: Guedry, Huffman, Paxton, Schupp, Traylor

ASSOCIATE PROFESSORS: Christy, Fricke, Gauthier, Heagler, Lange, Vandeveer

ASSISTANT PROFESSORS: Dellenbarger, Henning, Hinson, Lee, Luzar, Wharton, Zacharias, Zapata
The department offers undergraduate programs in agricultural business and agricultural economics. The agricultural business curriculum provides training for a wide variety of careers in the agribusiness industry, while the curriculum in agricultural economics prepares students for careers in the food and fiber sectors of national and international economies. Both programs integrate the disciplines of business and agricultural business; economics and agricultural economics; quantitative methods and agricultural sciences. Departmental offerings support both curricula and include courses in agribusiness management, marketing, credit and finance, agricultural production economics, land and water economics, agricultural policy, price analysis, and statistics.

The curriculum in agricultural business emphasizes the use of management, marketing, finance, law, and other business principles in the solution of problems in the agribusiness industry. This curriculum provides students with excellent preparation for careers in farm management, agricultural law, commodity trading, sales, marketing, real estate, international trade, insurance, agricultural processing, management, communications, public relations, finance, and appraisal.

Study in agricultural economics emphasizes the application of economic principles to the solution of problems in the food and fiber sector of the economy. Concentrated study in economics and quantitative methods provides the conceptual basis for analyzing problems related to the food and fiber sector, rural development, use of natural resources, and related public policy issues. The program prepares students for careers in governmental service, upper-level management, and advanced graduate studies leading to the master’s and the doctoral degrees.

Students in other departments may minor in agricultural economics. Details should be arranged between the student’s department and the Department of Agricultural Economics and Agribusiness.

### CURRICULUM IN AGRICULTURAL BUSINESS

**TOTAL SEM. HRS.: 134**

**Approved Electives:** Agriculture—nine sem. hrs. (other than agricultural economics courses) must be selected from courses within the college.

**General Education Course Requirements:** Arts, humanities, and social sciences—select from approved general education courses listed in a separate section of this catalog.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1001</td>
<td>1</td>
</tr>
<tr>
<td>Agronomy 1021</td>
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<tr>
<td>Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 1001, 1002</td>
<td>6</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1021, 1431</td>
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<tr>
<td>Zoology 1001, 1002 or Botany 1001, 1002, or Biology 1001, 1002, 1003, 1004</td>
<td>8</td>
</tr>
<tr>
<td></td>
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<table>
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<th>JUNIOR YEAR</th>
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<tr>
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<tr>
<td>Animal Science 2098</td>
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</tr>
<tr>
<td>English 2002</td>
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<td>Entomology 2001 or Plant Health 4000</td>
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<tr>
<td>Management 3159</td>
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<tr>
<td>Approved agricultural economics electives</td>
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<tr>
<td>Approved agriculture elective</td>
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<tr>
<td>General education arts course</td>
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<tr>
<th>SENIOR YEAR</th>
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<tbody>
<tr>
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<tr>
<td>Economics 2035</td>
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<td>Finance 3200, 3715</td>
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<td>Approved agricultural economics electives</td>
<td>9</td>
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<td>Approved agriculture electives</td>
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<tr>
<td>Approved social sciences elective</td>
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<tr>
<td>Electives or ROTC</td>
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</tbody>
</table>

### CURRICULUM IN AGRICULTURAL ECONOMICS

**TOTAL SEM. HRS.: 135**

**Approved Electives:** Agriculture—six sem. hrs. must be selected from courses within the college other than agricultural economics courses; Economics—six sem. hrs. of economics electives must be 3000 level or above; Basic Social Sciences—select from American government, American history, comparative economic systems, political systems, and social systems and institutions.
### General Education Course Requirements

**Arts and Humanities**—select from approved general education courses listed in a separate section of this catalog.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
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<td>Agricultural Economics 2075, 2077</td>
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<td>Animal Science 1011 or Dairy Science 1048</td>
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<td>Industrial &amp; Agricultural Technology 2066</td>
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<tr>
<td>or Poultry Science 1049</td>
<td></td>
<td>Agronomy 2051</td>
<td>4</td>
</tr>
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<td>Biology 1001, 1002, 1003, 1004</td>
<td>8</td>
<td>Economics 2010, 2020</td>
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<tr>
<td>Chemistry 1001, 1002</td>
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<td>English 2002</td>
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<tr>
<td>English 1001, 1002</td>
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<td>Horticulture 2050 or Agronomy 1021</td>
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<td>Mathematics 1021, 1431</td>
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<td>Sociology 2001 or 2351</td>
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<td>Speech Communication 2060</td>
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<td>Electives or ROTC</td>
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<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<td>Accounting 2001, 2101</td>
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<td>Agricultural Economics 4001 or 4016</td>
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<tr>
<td>Agricultural Economics 4015, 4018</td>
<td>7</td>
<td>Agricultural Economics 4024, 4064</td>
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<tr>
<td>Agricultural Economics 4051 or 4052</td>
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<td>Economics 2035</td>
<td>3</td>
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<td>Entomology 2001 or Plant Health 4000</td>
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<td>Approved agricultural economics electives</td>
<td>8</td>
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<tr>
<td>Approved agricultural economics electives</td>
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<td>Approved social sciences electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved agriculture electives</td>
<td>6</td>
<td>Approved economics electives</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course</td>
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<td>Approved humanities elective</td>
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</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>

### DEPARTMENT OF AGRICULTURAL ENGINEERING

**HEAD:** Nye, *Professor*

**OFFICE:** 149 Doran Agricultural Engineering Building

**TELEPHONE:** (504) 388-3153

**PROFESSORS:** Braud, Brown, Faulkner, Muller, Nye, Stipe, Verma, Wright

**ASSOCIATE PROFESSORS:** Bengston, Edling, Lawson, Parish, Sistler

**ASSISTANT PROFESSORS:** Beauvais, Hoover, Mailander, Robbins, Velupillai, Wells

**INSTRUCTORS:** Langlois, Weigand

**ADJUNCT FACULTY:** Carter, Fouss, Rogers

### Biological and Agricultural Engineering

For the curriculum in biological and agricultural engineering, see the "College of Engineering" section of this catalog.

### Industrial and Agricultural Technology

The curriculum in industrial and agricultural technology links the technical training involved in modern industrial and manufacturing processes with the management needed to supervise personnel in agricultural/manufacturing environments. The curriculum emphasizes knowledge of materials and production practices, concepts of management and human relations, communication skills, and a proficiency in biological, agricultural, and physical sciences, and in mathematics. This program is the result of a merger of the agricultural mechanization and industrial technology programs.

Areas of specialization in the curriculum are manufacturing and industry; occupational health and safety; and agricultural systems. The manufacturing and industry specialty emphasizes technology associated with manufacturing, plant layout, maintenance, and personnel supervision. The occupational health and safety emphasis includes training to reduce hazards in industrial and agricultural environments and follows guidelines for baccalaureate degree programs established by the Board of Certified Safety Professionals. The agricultural systems area prepares students for careers in technical sales, and management in agricultural businesses and industries.

The complex problems associated with operation, selection, and maintenance of complicated machinery used in modern agriculture and industry require technically trained specialists. Graduates of this curriculum find excellent career opportunities with machinery manufacturers, utility companies, petrochemical industries, processing industries, farm equipment dealers, agricultural services, and cooperative extension services.
CURRICULUM IN INDUSTRIAL AND AGRICULTURAL TECHNOLOGY
TOTAL SEM. HRS.: 134

The following are recommended technical electives for the curriculum in industrial & agricultural technology.

**Group I: Recommended Manufacturing and Industry Electives:** Industrial & Agricultural Technology 2021, 2066, 3022, 3024, 3061, 3083; Industrial Education 2040, 3062; Industrial Engineering 4104, 4405, 4406; Mathematics 1441; Experimental Statistics 4001.

**Group II: Recommended Occupational Safety and Health Electives:** Industrial & Agricultural Technology 3064, 3067, 4065, 4066; Mechanical Engineering 4653; Psychology 3050.

**Group III: Recommended Agricultural Systems Electives:** Industrial & Agricultural Technology 2094, 2307, 4030; Agronomy 1021, 2051; Agricultural Economics 4015, 4016, 4038, or 4082; Animal Science 1011; Dairy Science 1048; or Poultry Science 1049.

Other technical electives may be selected at the 2000-level or above in the College of Agriculture, Engineering, Basic Sciences, or Business Administration with approval of the student’s faculty advisor.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Chemistry 1001, 1002, 1212</td>
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</tr>
<tr>
<td>Engineering Graphics 1001 or ROTC</td>
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<tr>
<td>English 1001, 1002; 1004,* 1005*</td>
<td>6</td>
</tr>
<tr>
<td>Experimental Statistics 2000</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1021; 1022 or 1025</td>
<td>3</td>
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<tr>
<td>General education humanities course</td>
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<tr>
<td>General education arts course</td>
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</tr>
<tr>
<td>General education biological sciences course</td>
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<td><strong>Total</strong></td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Accounting 2000</td>
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<tr>
<td>Industrial &amp; Agricultural Technology</td>
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</tr>
<tr>
<td>3063, 3082, 4082</td>
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<tr>
<td>HPRD 2601</td>
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<tr>
<td>Industrial Education 3061 or Management 3159</td>
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<tr>
<td>Psychology 3050</td>
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<td>Directed technical electives</td>
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<td><strong>Total</strong></td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Industrial &amp; Agricultural Technology</td>
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<td>Technology 3104</td>
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<td>Industrial &amp; Agricultural Technology 4350</td>
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</tr>
<tr>
<td>Finance 3200</td>
<td>3</td>
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<td>Marketing 3401</td>
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<td>General education social sciences course</td>
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<td><strong>Total</strong></td>
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</table>

*Optional courses for international students only.

### DEPARTMENT OF AGRONOMY

**HEAD:** Dunigan, Professor  
**OFFICE:** 104 Sturgis Hall  
**TELEPHONE:** (504) 388-2110

**PROFESSORS:** Caldwell, Dunigan, J.E. Jones, J.P. Jones, Martin, Ricaud, Robinson, Sedberry, Selim

**ASSOCIATE PROFESSORS:** Amacher, Board, Feagley, Harville, Hoff, Hudnall, Kang, Kennedy

**ASSISTANT PROFESSORS:** Breitenbeck, Dabney, Fry, Harrison, Joost, Thro

The Department of Agronomy offers undergraduate and graduate education which prepares students for professional careers in fields related to crop and soil sciences. Areas of concentration within the curriculum include crop breeding, soil science, land and water resource management, turfgrass management, crop production, and soil management. Students preparing for careers in crop science and turfgrass management should choose additional electives in genetics, plant pathology, crop physiology, and botany. Those preparing for careers in soil science and land and water resource management should choose electives in chemistry, geology, geography, physics, and plant physiology. All students follow the same basic curriculum during their first two years. Toward the end of the sophomore year, each student, with the advice of the department head, will choose an area of concentration. The department head will then appoint an appropriate faculty committee to help the student plan a program of study.
### CURRICULUM IN AGRONOMIC SYSTEMS

**TOTAL SEM. HRS.: 132-135**

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
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</thead>
<tbody>
<tr>
<td>Botany 1001, 1002</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>Mathematics 1021; and 1022 or 1550</td>
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<td>Geology 1001, 1601</td>
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<td>Electives</td>
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**Total:** 34

#### SOPHOMORE YEAR

<table>
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<td>Botany 2046</td>
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<td>Economics 2030</td>
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<tr>
<td>Speech Communication 2060</td>
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<tr>
<td>Microbiology 1001 or 2051</td>
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<td>Experimental Statistics 2000 or</td>
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<tr>
<td>Computer Science 1248 or</td>
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<td>Business Administration 3200</td>
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**Total:** 36

#### JUNIOR YEAR

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<td>Botany 3060</td>
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<td>English 3002 or 4002</td>
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<tr>
<td>General education social sciences course</td>
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<tr>
<td>Biochemistry 2083; or 4087; or 4093 and 4094</td>
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<tr>
<td>Agronomy 3000</td>
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<td>Area of concentration courses</td>
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<td>Electives</td>
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**Total:** 36

#### SENIOR YEAR

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**Total:** 26-29

#### AREAS OF CONCENTRATION

**CROP SCIENCE**

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<td>Botany 4024</td>
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<td>Plant Health 4000</td>
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<td>Plant Health 4070</td>
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<td>Entomology 2001</td>
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<tr>
<td>Physics 2001</td>
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<td>Physics 2108</td>
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**Total:** 22

**SOIL SCIENCE**

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>Chemistry 2251</td>
<td>3</td>
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<tr>
<td>Chemistry 2252</td>
<td>2</td>
</tr>
<tr>
<td>Physics 2001</td>
<td>3</td>
</tr>
<tr>
<td>Physics 2108</td>
<td>4</td>
</tr>
<tr>
<td>Agronomy 4055</td>
<td>4</td>
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<tr>
<td>Agronomy 4056</td>
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<tr>
<td>Agronomy 4058</td>
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**Total:** 21

**AGRONOMIC MANAGEMENT AND PRODUCTION**

<table>
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<tbody>
<tr>
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<tr>
<td>Entomology 2001</td>
<td>3</td>
</tr>
<tr>
<td>Entomology 4006</td>
<td>3</td>
</tr>
<tr>
<td>Plant Health 4000</td>
<td>3</td>
</tr>
<tr>
<td>Plant Health 4001</td>
<td>3</td>
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<td>Plant Health 4070</td>
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<tr>
<td>Agricultural Economics 4015</td>
<td>3</td>
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<td>Agricultural Economics 4016</td>
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**Total:** 25

**LAND AND WATER RESOURCE MANAGEMENT**

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<tbody>
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<tr>
<td>Chemistry 2252</td>
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<tr>
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<tr>
<td>Approved technical electives</td>
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**Total:** 28

### DEPARTMENT OF ANIMAL SCIENCE

**ACTING HEAD:** Smith, Professor

**PROFESSORS:** Bidner, Franke, Godke, Hembry, Humes, Little, Smart, Smith

**ASSOCIATE PROFESSORS:** McMillin, Southern, Thompson

**ASSISTANT PROFESSORS:** Craig, White

**OFFICE:** 105 Francioni Hall

**TELEPHONE:** (504) 388-3241
The Department of Animal Science offers course work in all major fields of the livestock industry. The undergraduate curriculum provides instruction in animal breeding, nutrition, physiology, management, livestock marketing, and meat processing. Appropriate fundamental work is prerequisite to these studies. A detailed degree-planning conference with each student early in the second year allows selection of a wide range of electives. Electives in accounting, agricultural finance, industrial and agricultural technology, agronomy, business management, economics, entomology, journalism, veterinary science, and preveterinary courses are appropriate for animal science majors.

Some students participate, on a paid basis, in the departmental research programs and in the day-to-day management of beef cattle, sheep, swine, and horse farms. This experience is of great benefit to students—especially those with nonfarm backgrounds—when they seek employment.

Animal science majors can prepare for the management of commercial livestock farms and related enterprises, positions in the Louisiana Cooperative Extension Service, and careers with various governmental agencies and commercial organizations such as pharmaceutical, chemical, and feed companies; meat packers; banks; and livestock-breed organizations.

CURRICULUM IN ANIMAL SCIENCE
TOTAL SEM. HRS.: 134

Students majoring in animal science must take a minimum of 24 semester hours of credit from courses listed in the following four groups, with at least 15 semester hours from courses within one selected group.

**Group I Courses (Science):** Biochemistry 2083; Chemistry 1212, 2251, 2252, 2262, 2364; Mathematics 1550; Microbiology 2051; Physics 2002; Zoology 3090, 4105, 4160.

**Group II Courses (Applied Science):** Agricultural Economics 2075, 4015, 4098; Agronomy 1021, 2051, 4005; Animal Science 4071; Dairy Science 4118; Food Science 4000; Agricultural Economics 4051 or Animal Science 3040.

**Group III Courses (Business):** Accounting 2001 or 2011, 2021 or 2101; Agricultural Economics 4038, 4082; Finance 3715; Management 3159; Marketing 3401, 3427, 4421; Philosophy 2018; Psychology 3050.

**Group IV Courses (Communications):** Art 2095; Journalism 2151, 3001, 3002, 3030, 3131; Speech Communication 2061, 2064, 4114, 4160.

### FRESHMAN YEAR SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Agriculture 1001</td>
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<tr>
<td>Animal Science 1011</td>
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<tr>
<td>Botany 1001 or Zoology 1002</td>
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<tr>
<td>Chemistry 1201, 1202</td>
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<tr>
<td>English 1002, 2002</td>
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<tr>
<td>Mathematics 1021, 1022 or 1100 or 1431</td>
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<tr>
<td>Zoology 1001</td>
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<tr>
<td>Restricted elective</td>
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### SOPHOMORE YEAR SEM. HRS.

<table>
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<td>Animal Science 2133</td>
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<td>Chemistry 2060 or 2261</td>
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<td>Economics 2030</td>
<td>3</td>
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<tr>
<td>Experimental Statistics 2000</td>
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<td>Speech Communication 2060</td>
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<tr>
<td>Veterinary Science 2000</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities courses</td>
<td>6</td>
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<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>Restricted elective</td>
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### JUNIOR YEAR SEM. HRS.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Animal Science 3033, 3053, 4009, 4015, 4018</td>
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<tr>
<td>Dairy Science 4010</td>
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<tr>
<td>Experimental Statistics 4001</td>
<td>4</td>
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<tr>
<td>Restricted electives</td>
<td>9</td>
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### SENIOR YEAR SEM. HRS.

<table>
<thead>
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<th>Course</th>
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<tbody>
<tr>
<td>Animal Science 4092</td>
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<tr>
<td>Animal Science 4081, 4084, 4086, or 4088</td>
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<tr>
<td>Electives</td>
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<td>General education social sciences</td>
<td>3</td>
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<td>Restricted electives</td>
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<tr>
<td></td>
<td><strong>34</strong></td>
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</tbody>
</table>

**DEPARTMENT OF DAIRY SCIENCE**

**HEAD:** Smith, Professor  
**OFFICE:** 111 Dairy Science Building  
**TELEPHONE:** (504) 388-4411

**PROFESSORS:** Philpot, Roussel, Smith  
**ASSOCIATE PROFESSORS:** Achacoso, Adkinson, Baham, Chandler, Gough, Nickerson  
**ASSISTANT PROFESSORS:** Allen, Nipper, Ryan
The Department of Dairy Science offers curricula in dairy manufacturing, dairy production, and environmental health.

The dairy manufacturing curriculum includes scientific principles of product-processing techniques, quality, and inventory control. Students wishing to emphasize the commercial phase of dairy manufacturing and the business applications of accounting, management, marketing, and public relations for commercial work should elect the dairy manufacturing-business option. Those wishing to emphasize the scientific phases and the application of chemistry, biology, and physics for technical control, research, and teaching should elect the dairy manufacturing-science option. With either emphasis, students are prepared for positions with milk processors and cooperatives, industry suppliers, related food agencies, various governmental agencies, and educational institutions.

The dairy production curricula include dairy-cattle breeding and genetics, physiology of reproduction and artificial insemination, nutrition, physiology, and management. Students participate in research and operations of the Dairy Farm, Dairy Improvement Center, Climatic Chamber, and Nutrition Laboratory. Two curricula are offered in dairy production: dairy production—commercial and dairy production—science. Students wishing to emphasize the nonfarm aspects of the dairy industry and related industries should choose the dairy production—commercial curriculum and take business administration courses as electives. Those who wish to stress the operational aspects of commercial dairy farming should choose the same curriculum and take agricultural courses such as biological and agricultural engineering, industrial and agricultural technology, agronomy, agricultural economics, and dairy science as electives. Students interested in the scientific approaches in dairy production, including future graduate study, research, teaching at the college level, and technical sales and services in industries, should choose the dairy production—science curriculum.

The environmental health curriculum is an interdisciplinary course of study designed to meet the needs of those students who desire basic knowledge in environmental pollution control as related to the applied areas in public health of general sanitation, food quality control, and pollution of natural resources.

### CURRICULUM IN DAIRY MANUFACTURING (WITH OPTIONS)

**TOTAL SEM. HRS.: 134**

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Agriculture 1001</td>
<td>1</td>
</tr>
<tr>
<td>Biology 1001, 1002, 1003, 1004; or Botany 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry 1001, 1002; or 1201, 1202*</td>
<td>6</td>
</tr>
<tr>
<td>Dairy Science 1048</td>
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<tr>
<td>English 1001, 1002</td>
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</tr>
<tr>
<td>Mathematics 1021, 1025; or 1021, 1022*</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC.</td>
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**TOTAL:** 32

#### SOPHOMORE YEAR

<table>
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<tbody>
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<td>Accounting 2001</td>
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<tr>
<td>Dairy Science 2075</td>
<td>3</td>
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<tr>
<td>Economics 2030** or</td>
<td>3</td>
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<tr>
<td>Agricultural Economics 2075</td>
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<tr>
<td>Microbiology 2051</td>
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<td>Option requirements***</td>
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<tr>
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<td>sciences courses****</td>
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**TOTAL:** 34

#### JUNIOR YEAR

<table>
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<tbody>
<tr>
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<tr>
<td>English 2002 or 2010</td>
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<tr>
<td>Food Science 4000.</td>
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<tr>
<td>Management 3159</td>
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<tr>
<td>Marketing 3401</td>
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<tr>
<td>General education arts course****</td>
<td>3</td>
</tr>
<tr>
<td>Option requirements***</td>
<td>15</td>
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<tr>
<td>Elective</td>
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**TOTAL:** 34

#### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Agricultural Economics 4052</td>
<td>3</td>
</tr>
<tr>
<td>Dairy Science 2085, 4021, 4051, 4081</td>
<td>10</td>
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<tr>
<td>Speech Communication 2060 or 2064</td>
<td>3</td>
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<tr>
<td>General education humanities courses****</td>
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<tr>
<td>Electives****</td>
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</table>

**TOTAL:** 34

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*For science option.

**For business option.

***Course requirements and hours (in parentheses) for the options are as follows:

**Business Option:** Sophomore Year (9)—Accounting 2021 or 2101; Business Administration 1001; Business Communication 2071. Junior Year (15)—Agricultural Economics 4020; Finance 3200, 3440; Marketing 4421; and a 3 sem. hr. course approved by faculty advisor.

**Science Option:** Sophomore Year (11)—Chemistry 2060, 2251 and Biochemistry 2083, 2084; or Chemistry 2251, 2261, 2262, 2364. Junior Year (15)—Chemistry 2252; Dairy Science 4082; Food Science 4075; Microbiology 3115; Physics 2001.

****Electives must be chosen from the approved general education courses listed in a separate section of this catalog.
### CURRICULUM IN DAIRY PRODUCTION—COMMERCIAL

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Agriculture 1001</td>
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<tr>
<td>Biology 1001, 1002, 1003, 1004; or Botany 1001, 1002; or Zoology 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry 1201, 1202</td>
<td>6</td>
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<tr>
<td>Dairy Science 1048, 1049</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1025</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
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<tr>
<td><strong>TOTAL SEM. HRS.:</strong> 34</td>
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**SOPHOMORE YEAR**

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<tbody>
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<tr>
<td>Agricultural Economics 2075 or Agriculture Economics 2030</td>
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<tr>
<td>Agronomy 1021</td>
<td>3</td>
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<tr>
<td>Chemistry 2060</td>
<td>3</td>
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<tr>
<td>Dairy Science 2075</td>
<td>3</td>
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<tr>
<td>English 2002 or Business Communication 2071</td>
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<tr>
<td>Speech Communication 2060</td>
<td>3</td>
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<tr>
<td>Zoology 2153 or Agriculture 2072</td>
<td>3</td>
</tr>
<tr>
<td>Industrial &amp; Agricultural Technology elective</td>
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</tr>
<tr>
<td>General education social sciences courses***</td>
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<td>Electives or ROTC</td>
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<td><strong>TOTAL SEM. HRS.:</strong> 35</td>
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**JUNIOR YEAR**

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<tbody>
<tr>
<td>Agricultural Economics 4001</td>
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<tr>
<td>Agronomy 2051, 4005, 4052, Entomology 2001, Veterinary Science 3001 (select two)</td>
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<tr>
<td>Animal Science 4009</td>
<td>3</td>
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<tr>
<td>Dairy Science 2085, 3040, 4043</td>
<td>6</td>
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<tr>
<td>Experimental Statistics 4001</td>
<td>4</td>
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<tr>
<td>General education arts course***</td>
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<tr>
<td>Electives***</td>
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**SENIOR YEAR**

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<th>Course</th>
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<tbody>
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<td>or 4088</td>
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<td>Animal Science 4018</td>
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<tr>
<td>Dairy Science 4044</td>
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<td>Dairy Science 4010, 4051, 4054, 4118</td>
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<td>General education humanities courses****</td>
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<tr>
<td>Elective</td>
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### CURRICULUM IN DAIRY PRODUCTION—SCIENCE

**FRESHMAN YEAR**

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<td>Biology 1001, 1002, 1003, 1004; or Botany 1001, 1002; or Zoology 1001, 1002</td>
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</tr>
<tr>
<td>Chemistry 1201, 1202</td>
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<tr>
<td>Dairy Science 1048, 1049</td>
<td>5</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
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<tr>
<td>Electives or ROTC</td>
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<td><strong>TOTAL SEM. HRS.:</strong> 36</td>
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**SOPHOMORE YEAR**

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<tbody>
<tr>
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<tr>
<td>Agronomy 1021</td>
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<tr>
<td>Biochemistry 2083 and Chemistry 2060; or Chemistry 2261, 2262, 2364</td>
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<td>Dairy Science 2075</td>
<td>3</td>
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<tr>
<td>English 2002</td>
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<td>Microbiology 1001, 1002; or 2051</td>
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<tr>
<td>Speech Communication 2060</td>
<td>3</td>
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<tr>
<td>General education humanities courses****</td>
<td>6</td>
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<tr>
<td>Electives or ROTC</td>
<td>1-3</td>
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**JUNIOR YEAR**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Agronomy 2051, 4005, 4052, Entomology 2001, Veterinary Science 3001 (select two)</td>
<td>6-8</td>
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<tr>
<td>Animal Science 4009</td>
<td>3</td>
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<tr>
<td>Dairy Science 2085, 3040, 4043</td>
<td>6</td>
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<tr>
<td>Experimental Statistics 4001</td>
<td>4</td>
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<tr>
<td>Physics 2001, 2002</td>
<td>6</td>
</tr>
<tr>
<td>Zoology 2153 or Agriculture 2072</td>
<td>3</td>
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<tr>
<td>Electives</td>
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<td><strong>TOTAL SEM. HRS.:</strong> 33</td>
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**SENIOR YEAR**

<table>
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<tr>
<th>Course</th>
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<tr>
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<td>Animal Science 4018</td>
<td>4</td>
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<tr>
<td>Dairy Science 4010, 4044, 4051, 4054, 4118</td>
<td>15</td>
</tr>
<tr>
<td>General education arts course***</td>
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<tr>
<td>General education social sciences courses***</td>
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<tr>
<td><strong>TOTAL SEM. HRS.:</strong> 31</td>
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</tbody>
</table>
**CURRICULUM IN ENVIRONMENTAL HEALTH**

**TOTAL SEM. HRS.: 134**

Approved electives: Select at least 23 sem. hrs. from Group I and nine sem. hrs. from Group II or nine sem. hrs. from Group I and 23 sem. hrs. from Group II.

**Group I (Environmental):** Agronomy 2051, 4055; Botany 2046; Chemistry 2251, 4150; Civil Engineering 4120, 4130; Environmental Studies 2144, 4010, 4149, 4261, 4500; Fisheries 4021; Geography 2051, 4014, 4029, 4045; Nuclear Science 3411, 4101, 4331; Petroleum Engineering 2020; Zoology 4153.

**Group II (Health and Food):** Dairy Science 4021, 4022, 4040; Entomology 4001, 4002 or 4003; Food Science 4050, 4070, 4075, 4086; Industrial and Agricultural Technology 2051, 3064, 4065, 4066; Microbiology 4121, 4122, 4163; Poultry Science 4004; Zoology 4105.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Agriculture 1001</td>
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</tr>
<tr>
<td>Biology 1001, 1002, 1003, 1004; or Botany 1001, 1002; or Zoology 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Environmental Studies 1000</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>34</strong></td>
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</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 2261, 2262, 2364; or Chemistry 2060 and Biochemistry 2083, 2084</td>
<td>7-8</td>
</tr>
<tr>
<td>Dairy Science 2075</td>
<td>3</td>
</tr>
<tr>
<td>Economics 2030</td>
<td>3</td>
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<tr>
<td>English 3002</td>
<td>3</td>
</tr>
<tr>
<td>Entomology 2001</td>
<td>3</td>
</tr>
<tr>
<td>Microbiology 2051</td>
<td>4</td>
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<tr>
<td>Physics 2001</td>
<td>3</td>
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<tr>
<td>Speech Communication 2060</td>
<td>3</td>
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<tr>
<td>General education arts course****</td>
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<tr>
<td>Elective or ROTC</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>34</strong></td>
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<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
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<tbody>
<tr>
<td>Dairy Science 3001</td>
<td>2</td>
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<tr>
<td>Experimental Statistics 2000 or 2095 or 2201</td>
<td>3-4</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Microbiology 3115</td>
<td>4</td>
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<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 2001</td>
<td>3</td>
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<tr>
<td>Approved electives</td>
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<tr>
<td>Electives</td>
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<tr>
<td><strong>TOTAL</strong></td>
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<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Dairy Science 4081</td>
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<tr>
<td>Food Science 4000</td>
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<tr>
<td>General education humanities course</td>
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<tr>
<td>Approved electives</td>
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**DEPARTMENT OF ENTOMOLOGY**

HEAD: Heinrichs, Professor

PROFESSORS: Boethel, Chapin, Fuxa, Goyer, Graves Hammond, Heinrichs, LaFage, Meck, Oliver, Reagan, Rolston, Smith, Sparks

ASSOCIATE PROFESSORS: Byford, Foil, Johnson, Quisenberry, Riley, Story, Walker

ASSISTANT PROFESSOR: Pashley

Students majoring in entomology have a choice of either the science or the plant and animal protection curriculum, both of which are offered by this department. The science curriculum is designed specifically for students who plan to attend graduate school. The plant and animal protection curriculum is designed for those who may wish to terminate their studies at the baccalaureate level; however, students following this curriculum can pursue advanced academic work with little, if any, loss of time.

Graduates are qualified for careers in research in governmental agencies, agricultural industries, and chemical industries; regulatory work in state and federal organizations; and in private business such as pest-control operators or agricultural pest management consultants.
### CURRICULUM IN ENTOLOGY (SCIENCE)

**TOTAL SEM. HRS.: 135-357**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Agriculture 1001</td>
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<tr>
<td>Agronomy 1021 or Horticulture 2050</td>
<td>3-4</td>
</tr>
<tr>
<td>Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049</td>
<td>3</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
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<tr>
<td>English 1002</td>
<td>3</td>
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<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
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<tr>
<td>Zoology 1001, 1002</td>
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<tr>
<td>Electives or ROTC</td>
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**SEM. HRS.: 35-36**

**SOPHOMORE YEAR**

<table>
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<tr>
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<td>Agricultural Economics 2075</td>
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<tr>
<td>Botany 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry 2261, 2262, 2364</td>
<td>8</td>
</tr>
<tr>
<td>English 2025</td>
<td>3</td>
</tr>
<tr>
<td>Entomology 2001</td>
<td>3</td>
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**SEM. HRS.: 33**

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Agriculture 2072</td>
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</tr>
<tr>
<td>Botany 4041</td>
<td>3</td>
</tr>
<tr>
<td>Entomology 4005, 4014</td>
<td>7</td>
</tr>
<tr>
<td>Microbiology 2051</td>
<td>4</td>
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<tr>
<td>Plant Health 4000</td>
<td>3</td>
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<tr>
<td>Zoology 4153 or Botany 2046</td>
<td>3-4</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
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</tbody>
</table>

**SEM. HRS.: 34-35**

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>English 2002</td>
<td>3</td>
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<tr>
<td>Entomology 4002, 4006, 4016, 4017</td>
<td>12</td>
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<tr>
<td>Speech Communication 2060 or 2064</td>
<td>3</td>
</tr>
<tr>
<td>Entomology electives</td>
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</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course</td>
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**SEM. HRS.: 33**

### CURRICULUM IN ENTOLOGY (PLANT AND ANIMAL PROTECTION)

**TOTAL SEM. HRS.: 137-139**

**FRESHMAN YEAR**

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<tr>
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<tbody>
<tr>
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<tr>
<td>Agronomy 1021 or Horticulture 2050</td>
<td>3-4</td>
</tr>
<tr>
<td>Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049</td>
<td>3</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
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<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
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<tr>
<td>Zoology 1001, 1002</td>
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**SEM. HRS.: 33-34**

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Economics 2030</td>
<td>3</td>
</tr>
<tr>
<td>Agronomy 2051</td>
<td>4</td>
</tr>
<tr>
<td>Botany 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry 2261, 2262, 2364</td>
<td>8</td>
</tr>
<tr>
<td>English 2025</td>
<td>3</td>
</tr>
<tr>
<td>Entomology 2001</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
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**SEM. HRS.: 33**

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 2072</td>
<td>3</td>
</tr>
<tr>
<td>Botany 4041</td>
<td>3</td>
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<tr>
<td>Entomology 4005, 4014</td>
<td>7</td>
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<tr>
<td>Microbiology 2051</td>
<td>4</td>
</tr>
<tr>
<td>Plant Health 4000</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 4153 or Botany 2046</td>
<td>3-4</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
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<tr>
<td>General education social sciences course</td>
<td>3</td>
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</tbody>
</table>

**SEM. HRS.: 32-33**

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 2002</td>
<td>3</td>
</tr>
<tr>
<td>Entomology 4001, 4002, 4006, 4010, 4012 (select three)</td>
<td>9</td>
</tr>
<tr>
<td>Entomology 4016, 4017</td>
<td>6</td>
</tr>
<tr>
<td>Plant Health 4001, 7020</td>
<td>7</td>
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<tr>
<td>Plant Health 4070</td>
<td>4</td>
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<tr>
<td>General education humanities course</td>
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<tr>
<td>Electives</td>
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</table>

**SEM. HRS.: 35**

### DEPARTMENT OF EXPERIMENTAL STATISTICS

**HEAD:** Koonce, Professor

**OFFICE:** 149 Agricultural Administration Building

**TELEPHONE:** (504) 388-8303
The Department of Experimental Statistics provides instruction at the undergraduate and graduate levels. The Master of Applied Statistics, offered by this department, is designed to acquaint graduate students with the techniques of statistical methods and their application to various fields of specialization. For additional information concerning this program, consult the Graduate Catalog.

DEPARTMENT OF FOOD SCIENCE

HEAD: Mullins, Professor

PROFESSORS: Grodner, Liuzzo, Meyers, Mullins, Rao
ASSISTANT PROFESSORS: Godber, Hsieh

The Department of Food Science offers courses in nutrition and food science which fulfill the scholastic requirements suggested for certification by the Institute of Food Technologists. Graduates are qualified for employment in food manufacturing; management; research and development; quality control; state and federal food, health, and enforcement agencies; educational institutions; and technical sales activities. The department offers an undergraduate curriculum which emphasizes basic training in the physical and biological sciences. Advanced students are qualified for comprehensive courses related to the processing of basic agricultural products; manufacturing procedures; plant-equipment management; food preservation, packaging, storage, transportation, consumer preparation and utilization; and federal and state food laws.

CURRICULUM IN FOOD SCIENCE

TOTAL SEM. HRS.: 134-136

Approved Electives: Please refer to the section in this catalog concerning general education requirements.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1001</td>
<td>1</td>
<td>Agricultural Economics 2075</td>
<td>3</td>
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<tr>
<td>Biological science courses</td>
<td>8</td>
<td>Chemistry 2261, 2262, 2364</td>
<td>8</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
<td>English 2002</td>
<td>3</td>
</tr>
<tr>
<td>English 1002.</td>
<td>3</td>
<td>Microbiology 2051</td>
<td>4</td>
</tr>
<tr>
<td>Food Science 1049.</td>
<td>2</td>
<td>Physics 2001, 2002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1023, 1431</td>
<td>8</td>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dairy Science 4081 or Food Science 4162</td>
<td>3-4</td>
<td>Biochemistry 4087</td>
<td>3</td>
</tr>
<tr>
<td>Food Science 4000, 4005, 4070</td>
<td>8</td>
<td>Environmental Studies 4010</td>
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</tr>
<tr>
<td>Home Economics 4010</td>
<td>3</td>
<td>Experimental Statistics 4001</td>
<td>4</td>
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<tr>
<td>Microbiology 3115</td>
<td>4</td>
<td>Food Science 4050, 4060, 4075</td>
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<tr>
<td>General education humanities courses</td>
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<td>Microbiology 4110</td>
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<tr>
<td>Electives (including ROTC)</td>
<td>13-14</td>
<td>Electives</td>
<td>9-10</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>31</td>
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</table>

| SEM. HRS. | |
|-----------| |
| 116 | |

SCHOOL OF FORESTRY, WILDLIFE, AND FISHERIES

DIRECTOR: Hansbrough, Professor

PROFESSORS: Avault, Carter, Chabreck, Choong, Culley, Fogg,
Hansbrough, Johnson, Linnartz, Noble, Shilling
ASSOCIATE PROFESSORS: Cao, Chambers, Hamilton, Hotvedt, Hu, Jackson,
Romaine, Toliver, Truesdale, Wolters
ASSISTANT PROFESSORS: Kelso, Reigh
ADJUNCT FACULTY: Bryan, Herke

OFFICE: 227 Forestry-Wildlife-Fisheries Building
TELEPHONE: (504) 388-4131
The School of Forestry, Wildlife, and Fisheries offers undergraduate and graduate education to students who wish to study these disciplines. Two undergraduate curricula are available which provide students with professional education in forestry or in wildlife and fisheries. Within each curriculum, students can select from a list of approved electives in a chosen area of concentrated study. The forestry program is accredited by the Society of American Foresters, and the wildlife and fisheries program provides the educational requirements for certification of graduates by The Wildlife Society and the American Fisheries Society.

The forestry curriculum is designed to educate students in fundamental sciences and in the theory and practice of forest resources management and to prepare students for graduate study in more specialized areas of forestry. Accordingly, the forestry curriculum provides for areas of concentrated study in biometrics/mensuration, economics/business, forest ecology/tree physiology, forest management/industrial forestry, forest wildlife, silviculture, and wood utilization. The wildlife and fisheries curriculum provides for areas of concentrated study in either wildlife, fisheries, or aquaculture. It is designed to prepare students for professional careers as wildlife and fisheries biologists and for graduate study in wildlife and fisheries. Job opportunities for graduates of both curricula exist in private industry, state agencies, and the federal government.

Transportation for field trips is provided by the University but financed by the students. Field fees vary in amount, based on the cost of transportation, and are paid soon after classes begin. All forestry students are required to attend eight weeks of summer field courses following the junior year.

### CURRICULUM IN FORESTRY (FOREST MANAGEMENT)

**TOTAL SEM. HRS.: 144**

Requirements for the Bachelor of Science in Forestry degree include at least 144 semester hours with a grade-point average of 2.00 or above on all work taken, except those courses for which grades of 'P,' 'W,' or 'I' are recorded.

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Botany 1001,1002</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>Forestry 1001</td>
<td>2</td>
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<tr>
<td>Mathematics 1021, 1022, 1431</td>
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<td>General education arts course</td>
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<td><strong>Total</strong></td>
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#### SOPHOMORE YEAR

<table>
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<th>SEM. HRS.</th>
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<tbody>
<tr>
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<td>Computer Science 1248</td>
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<td>Experimental Statistics 2095</td>
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<td>Speech Communication 2060</td>
<td>3</td>
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<td>General education humanities course</td>
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<td><strong>Total</strong></td>
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#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Civil Engineering 1510, 1550</td>
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<td>Economics 2030</td>
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<tr>
<td>English 3002</td>
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<td>Forestry 2061, 3002, 3003, 3004</td>
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<td>Approved electives*</td>
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#### SUMMER (FOLLOWING JUNIOR YEAR)

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#### SENIOR YEAR

<table>
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<th>Course</th>
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<tr>
<td>Entomology 3001 or Plant Health 4011</td>
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<tr>
<td>Forestry 4021, 4032, 4034, 4035, 4036, 4038, 4039, 4048</td>
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<td>Approved electives*</td>
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<td>General education social sciences course</td>
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<td><strong>Total</strong></td>
<td><strong>36</strong></td>
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</table>

*Approved electives must be in an area of concentrated study and selected with approval of a designated faculty advisor; may include credit for basic ROTC.
### CURRICULUM IN WILDLIFE AND FISHERIES

**TOTAL SEM. HRS.: 135**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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<tbody>
<tr>
<td>Botany 1001, 1002</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
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<td>English 1001, 1002</td>
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<td>Mathematics 1021, 1022, 1431</td>
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<tr>
<td>Elective</td>
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<td><strong>TOTAL</strong></td>
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<tr>
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<tr>
<td>Wildlife 2031</td>
<td>2</td>
</tr>
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<td>Zoology 1001, 1002</td>
<td>8</td>
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<tr>
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<tr>
<td>General education arts course</td>
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<tr>
<td><strong>TOTAL</strong></td>
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<thead>
<tr>
<th>JUNIOR YEAR</th>
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<tbody>
<tr>
<td>English 3002</td>
<td>3</td>
</tr>
<tr>
<td>Speech Communication 2060</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 4153</td>
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<tr>
<td>Approved electives*</td>
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<tr>
<td>General education humanities courses</td>
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<td>General education social sciences course</td>
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<thead>
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<th>SENIOR YEAR</th>
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</tr>
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<tbody>
<tr>
<td>Botany 4020 or 4041</td>
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<tr>
<td>Experimental Statistics 4001</td>
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</tr>
<tr>
<td>Fisheries 4022, 4040</td>
<td>8</td>
</tr>
<tr>
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<td>19</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

*Must be selected from the list of courses approved for concentrated study in either wildlife, fisheries, or aquaculture.*

### SCHOOL OF HOME ECONOMICS

**DIRECTOR:** Olsen, Professor

**PROFESSORS:** Hildreth, Hwang, Olsen, Younathan

**ASSOCIATE PROFESSORS:** Burts, Cheek, Cloud, Draughn, Hegsted, Howat, Lawrence, Ott

**ASSISTANT PROFESSORS:** Belleau, Brewer, Gibbons, Hart, Haynes, Keenan, Summers

**INSTRUCTORS:** Benedict, Berryman, Marquette, Puls

The School of Home Economics offers undergraduate and graduate programs to prepare students for professional careers in the specialty areas of home economics.

The following five undergraduate curricula are offered: dietetics, family life and environment, food and nutrition, merchandising, textile science, and apparel design. Each curriculum is planned to provide the student with a concentrated professional sequence in an area of specialization, the necessary supporting courses in the basic sciences and/or arts, and a broad general education. Professional areas supporting certification requirements for nursery school and kindergarten teaching are listed as a part of the curriculum in family life and environment.

Graduates are prepared to pursue professional careers in such areas as dietetics, public health, human services, cooperative extension service, business, education, research, and international service. Home economics programs, research, and service focus on the family as a system and the interaction of families and individuals in their near and global environments.

A one-semester visiting-student program with the Fashion Institute of Technology, a fully accredited college under the administration of the State University of New York, is available to home economics students who have junior standing and who are majoring either in textile science, apparel design or merchandising. The program is designed to reinforce the curricula of students through accelerated courses and through direct observation and experience with apparel designers, manufacturers, and retailers.

Students in other academic areas will find a wide selection of courses in the School of Home Economics available as electives.

### CURRICULUM IN DIETETICS

**TOTAL SEM. HRS.: 134**

Upon completion of this curriculum, a student is eligible to apply for a dietetic internship and complete requirements to become a registered dietitian. Although most dietitians are employed as members of the medical team in health care facilities, many other employment opportunities exist, such as food service administration, food product development, private practice, nutrition product sales, consulting, and research.
<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1002</td>
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<tr>
<td>HPRD activity courses</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 1010, 1030, 1032, 1050</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics 1021 or 1023</td>
<td>3-5</td>
</tr>
<tr>
<td>Mathematics 1022 or 1431</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>1-3</td>
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<tr>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Biochemistry 2083, 2084</td>
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<tr>
<td>English 2002</td>
<td>3</td>
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<tr>
<td>Home Economics 3019, 3020, 4015, 4016</td>
<td>13</td>
</tr>
<tr>
<td>Home Economics 3090</td>
<td>1</td>
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<tr>
<td>Management 3159</td>
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<tr>
<td>Psychology 2000</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 2160, 2161</td>
<td>4</td>
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<tr>
<td>General education arts course</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>CURRICULUM IN FAMILY LIFE AND ENVIRONMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL SEM. HRS.: 134-137</td>
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</tbody>
</table>

Students completing this curriculum are eligible to apply for positions in government or the private sector which relate to family and social development, the management of family resources, and nursery school and kindergarten teaching. Employment opportunities exist in business, the Civil Service, extension education, programs for the elderly, consumer agencies, credit bureaus, social security agencies, banks, and the Veteran’s Administration.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Art 1001, 1011, 1440, or 1441</td>
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<tr>
<td>Chemistry 1001, 1002, or 1008</td>
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<tr>
<td>Biology 1001, 1002, 1003, 1004; or</td>
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<tr>
<td>Physical Science 1001, 1002**</td>
<td>6-8</td>
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<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>HPRD activity courses</td>
<td>2</td>
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<tr>
<td>Home Economics 1010, 1030, 1050</td>
<td>6</td>
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<tr>
<td>Mathematics courses***</td>
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<tr>
<td>Elective or ROTC</td>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Anthropology 1003</td>
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</tr>
<tr>
<td>Home Economics 3060</td>
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</tr>
<tr>
<td>History 2071 or political science elective</td>
<td>3</td>
</tr>
<tr>
<td>Interior Design 2722 or 3721</td>
<td>3</td>
</tr>
<tr>
<td>Social Work 3003 or EDCI 2025</td>
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<tr>
<td>Sociology 2001, 2351, 2501, or 2721</td>
<td>3</td>
</tr>
<tr>
<td>Home economics elective (clothing and textiles)</td>
<td>3</td>
</tr>
<tr>
<td>Professional courses*</td>
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</tr>
<tr>
<td>Elective</td>
<td>3</td>
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<tr>
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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Accounting 2000 or 2001</td>
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<tr>
<td>Chemistry 2060 or Chemistry 2261, 2262</td>
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<tr>
<td>Economics 2030</td>
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<tr>
<td>English 2020, 2022, 2025, or 2027</td>
<td>6</td>
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<tr>
<td>Home Economics 2015, 2016</td>
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<tr>
<td>Microbiology 2051</td>
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<tr>
<td>Sociology 2001 or Anthropology 1003</td>
<td>3</td>
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<tr>
<td>Speech 2060</td>
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<tr>
<td>Electives or ROTC</td>
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<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Home Economics 3060, 4010, 4011, 4012, 4013, 4023, 4024</td>
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<tr>
<td>Management 4167</td>
<td>3</td>
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<td>HEED 4004</td>
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<td>Electives</td>
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<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Agricultural Economics 2075 or 2080</td>
<td>3</td>
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<tr>
<td>Economics 2030</td>
<td>3</td>
</tr>
<tr>
<td>English 2020, 2022, 2025, or 2027</td>
<td>6</td>
</tr>
<tr>
<td>Home Economics 1032, 2055</td>
<td>6</td>
</tr>
<tr>
<td>Home Economics 2015 or food and nutrition elective</td>
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</tr>
<tr>
<td>Psychology 2000, 2004, 2040, or 2060</td>
<td>3</td>
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<tr>
<td>Sociology 2001 or 2501 or History 2055 or 2057</td>
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<tr>
<td>Speech or philosophy course</td>
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<tr>
<td>Zoology 2160</td>
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<tr>
<td>HPRD electives</td>
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<tr>
<td>Electives or ROTC</td>
<td>4</td>
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<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Home Economics 3061 or 3062; 3090, 4050, 4065, 4066</td>
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<tr>
<td>Home Economics 4051 or EDCI/Home Economics 4055</td>
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<td>Professional courses*</td>
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<tr>
<td>Electives</td>
<td>6-8</td>
</tr>
<tr>
<td></td>
<td><strong>31-33</strong></td>
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</tbody>
</table>
Professional Area Requirements*


Extension Service: May select 18 sem. hrs. from Extension Education 3010, 4010, 4011, 4025, HPRD 2507, Home Economics 3070, Journalism 2090, 2151, Speech Communication 2060, HEED 4004.


Journalism: May select 18 sem. hrs. from Home Economics 2065, 3070, 4067, Journalism 1700, 2090, 2151, 3002, 3030, 3065, 4082.

Nursery School and Kindergarten Teaching Option

To select the professional area of nursery school-kindergarten teaching, a student must have a 2.20 grade-point average and have completed a minimum of three clock hours of counseling related to the student’s suitability and aptitude for teaching and the availability of jobs both geographically and by subject matter. To enter the teacher education program, students must have a 2.5 grade point average and have passed the communication skills and general knowledge portions of the National Teacher Examination. To apply for nursery school-kindergarten teaching certification, a student must have no grade lower than a “C” in professional or specialized academic education courses, have a 2.50 grade-point average on all work attempted at LSU, have passed the National Teacher Examination, and have completed 135-137 semester hours of required course work as specified below.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Art 2271</td>
<td>3</td>
<td>Agricultural Economics 2075</td>
<td>3</td>
<td>Anthropology 1003</td>
<td>3</td>
<td>Home Economics 3061 or 3062</td>
<td>24</td>
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<tr>
<td>Chemistry 1001, 1002; or Biology 1001, 1002, 1003, 1004; or Physical Science 1001, 1002**</td>
<td>6-8</td>
<td>Economics 2030</td>
<td>3</td>
<td>EDAF 3551</td>
<td>3</td>
<td>4050, 4056, 4059, 4060, 4065, 4066</td>
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</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>English 2020, 2022, 2025, or 2027</td>
<td>6</td>
<td>EDCI 2025, 3112</td>
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<td>4057, 4058</td>
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<tr>
<td>HPRD activity courses</td>
<td>2</td>
<td>History 2055 or 2057</td>
<td>3</td>
<td>Home Economics 3060</td>
<td>3</td>
<td>EDCI/Home Economics 4055, 4057, 4058</td>
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<tr>
<td>Home Economics 1010, 1030, 1050</td>
<td>9</td>
<td>Home Economics 1032, 2015, 2055</td>
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<td>History 2071</td>
<td>3</td>
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</tr>
<tr>
<td>Mathematics courses***</td>
<td>6</td>
<td>HPRD 2601</td>
<td>1</td>
<td>Interior Design 2722 or 3721</td>
<td>3</td>
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<td></td>
<td>HPRD elective</td>
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<td>Sociology 2001, 2351, 2501, or 2721</td>
<td>3</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Music 2170</td>
<td>3</td>
<td>Home economics elective (clothing and textiles)</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td>Psychology 2060</td>
<td>3</td>
<td>Sciences elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zoology 2160</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>Speech elective</td>
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<td></td>
<td>32-34</td>
<td></td>
<td></td>
<td></td>
<td>35</td>
</tr>
</tbody>
</table>

*Professional area and courses chosen in consultation with academic advisor.
**If the biology sequence is chosen, three additional hrs. of physical sciences are required; if chemistry or physical sciences is chosen, three additional hrs. of biological sciences are required.
***MATH 1021, plus three hrs. selected from the general education analytical reasoning electives.

CURRICULUM IN FOOD AND NUTRITION

TOTAL SEM. HRS.: 134

This curriculum provides an academic foundation for graduate study and research in human nutrition and/or food. Employment opportunities for students majoring in food and nutrition are found primarily in research, education, and journalism. These opportunities exist in private industry, public health service, and state, national, and international agencies.
Electives are selected with consent of the advisor.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Agriculture 1001</td>
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<tr>
<td>Agriculture 1201, 1202, 1212</td>
<td>8</td>
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<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>HPRD activity courses</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 1010, 1030, 1032, 1050</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics 1021 or 1023</td>
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<tr>
<td>Mathematics 1022 or 1025 or 1431</td>
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</tr>
<tr>
<td>Electives or ROTC</td>
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<tr>
<td>Total</td>
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JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Economics 2016, 3060 or 3061, 4015, 4016</td>
<td>12</td>
</tr>
<tr>
<td>Approved home economics electives (other than food and nutrition courses)</td>
<td>3</td>
</tr>
<tr>
<td>Science area: Chemistry 2251, 2252; Microbiology 4110; English 2002</td>
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</tr>
<tr>
<td>Communication area: Journalism 2090, 2151, 3002; Speech Communication 2060</td>
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</tr>
<tr>
<td>Electives</td>
<td>5-6</td>
</tr>
<tr>
<td>Total</td>
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</tbody>
</table>

CURRICULUM IN MERCHANDISING

TOTAL SEM. HRS.: 134

Home economics students who are interested in merchandising combine textiles and clothing courses with courses in merchandising and business as preparation for positions in wholesale or retail buying and selling. Students may also seek careers in retail management and fashion promotion, consultation, and coordination. Fashion Institute of Technology courses may be used as electives in the junior and senior years for a maximum of 15 sem. hrs. Electives are selected with consent of the advisor.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Chemistry 1001, 1002; and 3 hrs. biological science</td>
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</tr>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>Art 1011</td>
<td>3</td>
</tr>
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<td>HPRD activity courses</td>
<td>2</td>
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<tr>
<td>Home Economics 1010, 1030, 1032, 1050</td>
<td>12</td>
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<tr>
<td>Mathematics 1021, 1025</td>
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<tr>
<td>Total</td>
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JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
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<tr>
<td>Home Economics 3060 or 3061</td>
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<tr>
<td>Finance 3200 or 3201</td>
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<tr>
<td>Business Communication 2071</td>
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<td>Management 3159</td>
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<tr>
<td>Marketing 3401</td>
<td>3</td>
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<tr>
<td>Approved home economics electives</td>
<td>6</td>
</tr>
<tr>
<td>General education social sciences course</td>
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<tr>
<td>Total</td>
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SOPHOMORE YEAR

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<tr>
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<td>Chemistry 2060</td>
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<tr>
<td>Economics 2030</td>
<td>3</td>
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<tr>
<td>English 2020, 2022, 2025, or 2027</td>
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</tr>
<tr>
<td>Home Economics 2015</td>
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</tr>
<tr>
<td>Microbiology 2051</td>
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<td>Psychology 2000</td>
<td>3</td>
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<tr>
<td>Zoology 2160</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course</td>
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</tr>
<tr>
<td>Electives or ROTC</td>
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<td>Total</td>
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SENIOR YEAR

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<tr>
<td>Science area: Microbiology 4162; Experimental Statistics 4001</td>
<td>3</td>
</tr>
<tr>
<td>Communication area: Journalism 3001, 3065, 4031, 4141, or 4170</td>
<td>7-9</td>
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<tr>
<td>Total</td>
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</table>
### CURRICULA IN TEXTILES AND CLOTHING

Students may select either the apparel design or the textile science option. The apparel design option prepares students for careers as designers, stylists, or fashion executives in industry or in custom apparel design operations. The textile science option prepares students for positions with fiber, fabric, and garment producers, product testing laboratories, and government and private textile agencies. Graduates may serve as laboratory technicians, consumer advisors, consumer researchers, and technical representatives for manufacturers of textiles and textile-related products.

*Fashion Institute of Technology courses may be used as electives for students in the apparel design option.*

#### APPAREL DESIGN OPTION

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>English 1002</td>
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<tr>
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<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1022 or 1431</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 1010, 1030, 1032, 1050</td>
<td>12</td>
</tr>
<tr>
<td>ART 1011</td>
<td>3</td>
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<tr>
<td>Electives or ROTC</td>
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**TOTAL SEM. HRS.:** 35

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Home Economics 2045, 3037, 3045</td>
<td>9</td>
</tr>
<tr>
<td>Home Economics 3032, 3036</td>
<td>6</td>
</tr>
<tr>
<td>Experimental Statistics 2000 or computer science course</td>
<td>3</td>
</tr>
<tr>
<td>Art 2879</td>
<td>3</td>
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<tr>
<td>Marketing 3401</td>
<td>3</td>
</tr>
<tr>
<td>Speech Communication 2060</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
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**TOTAL SEM. HRS.:** 33

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
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<tbody>
<tr>
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<tr>
<td>Economics 2030</td>
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</tr>
<tr>
<td>English 2020, 2022, 2025, 2027 (select two)</td>
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</tr>
<tr>
<td>Home Economics 2035, 2036</td>
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<tr>
<td>Home Economics 2040, 2041</td>
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<td>Art 1847, 1848, 2552</td>
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**TOTAL SEM. HRS.:** 34

**SENIOR YEAR**

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<thead>
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<tbody>
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<tr>
<td>Home Economics 3090</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 4031 or 4032</td>
<td>3</td>
</tr>
<tr>
<td>Management 3159</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 4041, 4042 or 4043</td>
<td>3</td>
</tr>
<tr>
<td>ART 4889</td>
<td>3</td>
</tr>
<tr>
<td>Theatre 4123</td>
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<tr>
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**TOTAL SEM. HRS.:** 32

#### TEXTILE SCIENCE OPTION

**FRESHMAN YEAR**

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<td>Home Economics 1010, 1030, 1050</td>
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<tr>
<td>ART 1011</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>General education biological sciences course</td>
<td>3</td>
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<tr>
<td>Electives or ROTC</td>
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**TOTAL SEM. HRS.:** 35

**JUNIOR YEAR**

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<tbody>
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<td>Chemistry 2251, 2252</td>
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<tr>
<td>Home Economics 2045, 3040, 3045</td>
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</tr>
<tr>
<td>Marketing 3401</td>
<td>3</td>
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<td>Speech Communication 2060</td>
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</tr>
<tr>
<td>Experimental Statistics 2000 or computer science course</td>
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<td>Electives</td>
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**TOTAL SEM. HRS.:** 33

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
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<tr>
<td>Economics 2030</td>
<td>3</td>
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<tr>
<td>English 2020, 2022, 2025, 2027 (select two)</td>
<td>6</td>
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<tr>
<td>Home Economics 2037, 2040, 2041</td>
<td>7</td>
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<tr>
<td>Chemistry 2261, 2262</td>
<td>6</td>
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<tr>
<td>Physics 2001, 2002</td>
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<td>Electives or ROTC</td>
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**TOTAL SEM. HRS.:** 34

**SENIOR YEAR**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Home Economics 3060 or 3061</td>
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<tr>
<td>Home Economics 3090</td>
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<td>Home Economics 4031 or 4032</td>
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<td>Home Economics 4041, 4042, 4043</td>
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<tr>
<td>Management 3159</td>
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<tr>
<td>Experimental Statistics 4001</td>
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<td>General education social sciences course</td>
<td>3</td>
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<tr>
<td>Elective</td>
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</tbody>
</table>

**TOTAL SEM. HRS.:** 32
DEPARTMENT OF HORTICULTURE

HEAD: Meadows, Professor

PROFESSORS: Fontenot, Meadows, O’Rourke, Standifer
ASSOCIATE PROFESSORS: Picha, Sundstrom, Wilson
ASSISTANT PROFESSORS: Lang, Robbins, Walker

The Department of Horticulture offers courses in the production of fruits, nuts, vegetables, ornamental plants, and flowers. The curriculum utilizes a systems approach to horticulture and offers three areas of concentration. The concentration in ornamental horticulture is designed for students pursuing careers in horticultural industries, such as nursery operations, florist-trade establishments, landscape maintenance, horticultural marketing, and other horticultural enterprises. Students concentrating in olericulture and pomology will be prepared for careers in vegetable, fruit, and nut production, as well as horticultural marketing and crop consulting. Students choosing the concentration in science will be prepared for graduate study leading to careers in teaching, research, and the extension service.

CURRICULUM IN HORTICULTURAL SYSTEMS

TOTAL SEM. HRS.: 135

*Course requirements and hours for the three areas of concentration are as follows:

**Approved electives must be selected with the approval of a designated faculty advisor.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOFHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
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<td>Agronomy 2051</td>
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<td>Botany 1001, 1002.</td>
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<td>Horticulture 2061, 2076</td>
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<tr>
<td>English 1001, 1002</td>
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<td>General education humanities courses</td>
<td>6</td>
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<tr>
<td>Horticulture 2050</td>
<td>4</td>
<td>General education social sciences courses</td>
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<td>Electives or ROTC</td>
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<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
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<tr>
<td>English 2002 or 3002</td>
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<tr>
<td>Entomology 2001</td>
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<td>Experimental Statistics 2000</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Plant Health 3060, 4000</td>
<td>7</td>
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<td></td>
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<tr>
<td>Speech Communication 2060</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General education arts course</td>
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<td>Area of concentration courses</td>
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</tr>
<tr>
<td><strong>32</strong></td>
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</tbody>
</table>
## DEPARTMENT OF PLANT PATHOLOGY AND CROP PHYSIOLOGY

**HEAD:** MacKenzie, Professor  
**OFFICE:** 302 Life Sciences Building  
**TELEPHONE:** (504) 388-1464

**PROFESSORS:** Anzalone, Baker, Black, Blackmon, Clark, Holcomb, Lindberg, MacKenzie, Rush, Snow  
**ASSOCIATE PROFESSORS:** Berggren, Cohn, Damann, Jones, McGawley, Murai, Schneider  
**ASSISTANT PROFESSORS:** Flores, Hoy, Jordan

The Department of Plant Pathology and Crop Physiology offers courses in plant pathology, crop physiology, and weed science, but does not offer an undergraduate curriculum. Students planning to pursue graduate study in the areas of plant pathology, crop physiology, or weed science should take undergraduate courses in botany or biology, plant physiology, microbiology, soils, genetics, general and organic chemistry, physics, and mathematics.

## DEPARTMENT OF POULTRY SCIENCE

**HEAD:** Johnson, Professor  
**OFFICE:** 102 Ingram Hall  
**TELEPHONE:** (504) 388-4481

**PROFESSORS:** Hebert, Johnson  
**ASSOCIATE PROFESSORS:** Farr, Satterlee  
**ASSISTANT PROFESSOR:** Ingram

The poultry science curriculum provides training for managerial positions in various poultry enterprises such as poultry and egg farms, breeding farms, egg and broiler plants, feed mills and hatcheries; service in governmental agencies; and employment with commercial organizations, such as feed manufacturers, pharmaceutical companies, equipment manufacturers, and lending agencies. Students who expect to work in poultry production and processing are advised to supplement this curriculum with electives in communications, business, and management. Students who plan to pursue graduate work as preparation for employment in universities, experiment stations, or private research agencies are advised to take electives in chemistry, zoology, and mathematics.

## CURRICULUM IN POULTRY SCIENCE

**TOTAL SEM. HRS.:** 134

**General Education Electives:** Student must select a minimum of three hrs. of electives from the arts: music, art, or theatre; six hrs. of electives from the humanities: foreign languages above 2051, philosophy, religious studies and/or English 2000 and above. General education electives must be chosen from the approved general education courses listed in a separate section of this catalog.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<th>SEM. HRS.</th>
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<tbody>
<tr>
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<tr>
<td>Biology 1001, 1002, 1003, 1004; or Zoology 1001, 1002</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
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</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Mathematics 1021, 1431</td>
<td>6</td>
<td></td>
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<tr>
<td>General education arts course</td>
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### SOPHOMORE YEAR

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<td>Agriculture 2072</td>
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<td>Computer Science 1240</td>
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<tr>
<td>or Economics 2010, 2020</td>
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<td>Entomology 2001</td>
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<td>Industrial Education 2051</td>
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<td>Microbiology 2051</td>
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<td>Poultry Science 1049</td>
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<td>Speech Communication 2060</td>
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<td>Elective or ROTC</td>
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### JUNIOR YEAR

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<tbody>
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<tr>
<td>Chemistry 2261, 2262, 2364; or Chemistry 2060, Accounting 2101, Marketing 3401</td>
<td>8-9</td>
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<tr>
<td>Experimental Statistics 4001</td>
<td>4</td>
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<td>Industrial &amp; Agricultural Technology 3063</td>
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<td>Management 3159 or 4159 or Industrial Education 3061</td>
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<td>Psychology 3050</td>
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### SENIOR YEAR

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<td>Dairy Science 4010</td>
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<td>Veterinary Science 4004</td>
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<td>Electives</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>34</td>
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</tbody>
</table>
PREVETERINARY MEDICINE

Students contemplating a career in veterinary medicine must be prepared to complete a minimum of six years of college education, including two or more years in the preveterinary curriculum. Preprofessional requirements may be completed at LSU or at any accredited college or university offering courses of the content and quality prescribed in this catalog. Students desiring to enter the preveterinary medicine curriculum should contact the dean of the College of Agriculture prior to initial registration to ensure proper enrollment in required courses.

Some students find it advantageous to start their preprofessional training the summer after high school graduation. Currently, all colleges of veterinary medicine in the U.S. have more qualified applicants seeking admission than can be admitted. Since it will not be possible to admit all eligible applicants, students who have completed 66 hours of course work and who are not admitted to the professional program should select a degree-granting curriculum and work toward a bachelor’s degree. Selection of a curriculum in no way restricts further application to the LSU School of Veterinary Medicine.

The School of Veterinary Medicine’s Faculty Committee on Admissions requires a formal application with supporting credentials from each candidate. Applications may be submitted no earlier than January 1 and no later than February 15 of the calendar year in which admission is sought. Admission to the professional program of the school will be granted only for the fall semester and only on a full-time basis. Class size will be limited.

Scholastic achievement will be measured by performance in the required preprofessional courses. Students must have a grade-point average of at least 2.50 ("A" = 4) in required courses for consideration for admission. A grade of less than "C" in a required course is unacceptable. All preprofessional requirements for the LSU program in veterinary medicine must be completed by the end of the spring semester of the calendar year in which application is made. The Medical College Aptitude Test (MCAT) must be taken prior to submission of the application. The final selection of applicants for admission to the professional curriculum in veterinary medicine will be made by the School of Veterinary Medicine’s Faculty Committee on Admissions.

The two-year preveterinary curriculum for the LSU School of Veterinary Medicine is listed below. Requests for additional information concerning the preveterinary program should be addressed to: Dean, College of Agriculture, or Dean, School of Veterinary Medicine. Admission to the preveterinary curriculum does not carry assurance that the student will be admitted to the professional curriculum. See also the "School of Veterinary Medicine" section of this catalog.

CURRICULUM IN PREVETERINARY MEDICINE

Elective hours may include ROTC; Animal Science 1011; Dairy Science 1048; History 2025, 2057; Political Science 2051; Poultry Science 1049; or Sociology 2001, 2351, or 2721. ROTC courses may be scheduled in each of the four semesters by reassignment of the nine elective hours in the curriculum.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR (1ST SEM.)</th>
<th>SEM. HRS.</th>
<th>FRESHMAN YEAR (2ND SEM.)</th>
<th>SEM. HRS.</th>
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<td>Chemistry 1202, 1212</td>
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<td>3</td>
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<td>Zoology 1001</td>
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<td>Zoology 1002</td>
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<td>Electives</td>
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<td>Electives</td>
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<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR (2ND SEM.)</th>
<th>SEM. HRS.</th>
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<td>Chemistry 2262, 2364</td>
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<td>Physics 2001</td>
<td>3</td>
<td>Physics 2002</td>
<td>3</td>
</tr>
<tr>
<td>Biological sciences elective</td>
<td>3</td>
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<td>Electives</td>
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</tr>
</tbody>
</table>

RURAL SOCIOLOGY

The rural sociology curriculum is designed to provide students with a sociological perspective on rural life. Students electing this major take courses from departments within, as well as outside, the College of Agriculture pertinent to understanding the nature of human relationships in rural societies. Specific attention is focused upon rural social institutions and communities. Graduates of the program may seek employment with various private and public agencies such as agriculture industries, farm organizations, community development agencies, and units of federal and state government. Graduates are also qualified to pursue graduate degrees in sociology and/or rural sociology as well as various professional degrees.

Students may obtain further information about the rural sociology curriculum by contacting the Department of Sociology.
## CURRICULUM IN RURAL SOCIOLOGY

**TOTAL SEM. HRS.: 134**

**Electives:** Electives may be selected from any courses offered by the University with consent of the chairman of the Department of Sociology. The social sciences electives numbered 3000 or above must be selected from courses in anthropology, economics, geography, political science, or psychology. Agricultural or life sciences electives (numbered 3000 or above) must be selected from courses within the college or from botany or zoology.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1001</td>
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<tr>
<td>Agronomy 1021 or Forestry 1001 or</td>
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</tr>
<tr>
<td>Horticulture 2050</td>
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</tr>
<tr>
<td>Animal Science 1011 or Dairy Science 1048</td>
<td>3</td>
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<tr>
<td>or Poultry Science 1049</td>
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<tr>
<td>Anthropology 1001 or 1003</td>
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<tr>
<td>Books and Libraries 1001</td>
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<tr>
<td>English 1001, 1002</td>
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<tr>
<td>Mathematics 1021</td>
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<tr>
<td>General education analytical reasoning course</td>
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<tr>
<td>History 1001, 1003, 2055, or 2057</td>
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<tr>
<td>Electives or ROTC</td>
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<td><strong>Total</strong></td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
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<tbody>
<tr>
<td>Agricultural Economics 2075</td>
<td>3</td>
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<tr>
<td>Agricultural Economics 4018 or</td>
<td></td>
</tr>
<tr>
<td>Experimental Statistics 4001 or Sociology 2201</td>
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<tr>
<td>English 2020, 2022, 2025, 2027, 2070, or 2148 (select one)</td>
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<tr>
<td>Sociology 2211, 3101</td>
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<td>Sociology 3501, 3505, 4501, 4511, 4521, 4531 or 4551</td>
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<tr>
<td>Sociology 3601 or 3605</td>
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<tr>
<td>Speech Communication 2060</td>
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<td>Approved social sciences elective numbered 3000 or above</td>
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<tr>
<td>General education humanities course</td>
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<td>Electives</td>
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<td><strong>Total</strong></td>
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### SENIOR YEAR

<table>
<thead>
<tr>
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<tbody>
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<tr>
<td>Extension Education 4010</td>
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<td>Sociology 3911</td>
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<tr>
<td>Sociology 4301, 4311, 4321, 4331, 4341, 4351, 4361</td>
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<td>Sociology 4401, 4411, 4421, 4431, 4441, 4451, 4461, 4471, or 4481 (select one)</td>
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<tr>
<td>Sociology 4701 or 4711</td>
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<tr>
<td>Approved agricultural or life sciences elective numbered 3000 or above</td>
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<td>Electives numbered 3000 or above</td>
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<tr>
<td>Elective</td>
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<td><strong>32</strong></td>
</tr>
</tbody>
</table>

## SCHOOL OF VOCATIONAL EDUCATION

**DIRECTOR:** Trott, Associate Professor  
**OFFICE:** 142 Old Forestry Building  
**TELEPHONE:** (504) 388-5748

**PROFESSORS:** Flint, Gassie, McMurry, Moore, Richardson, Smith, Verma  
**ASSOCIATE PROFESSORS:** Burnett, Harrison, Holt, Kotrilik, Kuetemeyer, Soileau, Trott  
**INSTRUCTOR:** Tassin

The School of Vocational Education offers graduate and undergraduate education to students interested in the teaching of agricultural education, home economics education, business education, trade and industrial education, and industrial arts/technology education. The school's objectives are: (1) to provide educational preparation for personnel in the areas of vocational education, agricultural education, home economics, business, and industrial arts/technology education; (2) to develop teaching materials for in-service education; (3) to provide continuing education for in-service professionals through workshops, graduate courses, and short courses; (4) to follow up resident teacher-education through field contacts; (5) to improve the quality of secondary, post-secondary, and college teaching; and (6) to conduct research which contributes to national literature and the development of the state vocational education program.

The State Board for Vocational Education has designated LSU as a teacher education center for the preparation of vocational teachers, and federal funds available under the provisions of the National Vocational Education Acts are used to aid in the improvement and innovation in each program area.
Admission to the Vocational Teacher Education Program

The teacher education program is administered by the deans of the College of Education and the College of Agriculture. Agricultural education, business education, home economics education, and industrial arts/technology education options are offered by the School of Vocational Education within the College of Agriculture. All other teacher education curricula are offered by the College of Education.

Within the framework of University regulations, the College of Agriculture admits students to the teacher education program according to the following selective admission policies:

1. **Students from Junior Division and other LSU senior colleges** who have completed a minimum of 24 semester hours with a 2.20 grade-point average on all work taken will be considered for provisional admission to the vocational teacher education program. For full admission, a 2.50 cumulative grade-point average and appropriate scores on the general knowledge (644) and communication skills (645) sections of the National Teacher Examination (NTE) will be required. Full admission is required prior to enrollment in any 4000-level professional vocational education course.

2. **Transfer students** from accredited colleges and universities who have met the entrance requirements of the University, are eligible for admission to a senior college, and meet the requirements listed above will be considered for admission to the teacher education program.

3. Students on University scholastic and attendance probation will not be admitted to a teacher education program.

4. All students must have completed a minimum of three hours of counseling related to the student’s suitability and aptitude for teaching and the availability of jobs both geographically and by subject major.

Requirements for Student Teaching

1. Full admission into a vocational teacher education program.
2. Attainment of senior standing in the college with an overall average of 2.50 on all work attempted at LSU, with no grade lower than “C” in professional education courses and in courses required in each teaching field regardless of institution(s) attended.
3. Proficiency in English.
4. Completion of all methods courses.

Degree Requirements of the School

A student in this school must meet all graduation requirements described in the section of this catalog entitled “University Baccalaureate Degree Requirements.” In addition, in order to graduate in the teacher education program, a student must have a cumulative grade-point average of 2.50.

Curricula

**INDUSTRIAL ARTS/TECHNOLOGY EDUCATION OPTION**

The option in industrial arts/technology education develops the skills of elementary and secondary school teachers in this area; provides professional preparation and certification for vocational-technical teachers; and provides training, supervision, and administrative development services to industry and education. Successful completion of course work in this area of concentration prepares the student for certification as an industrial arts/technology education teacher by the Louisiana Department of Education.

**CURRICULUM IN VOCATIONAL EDUCATION (INDUSTRIAL ARTS/TECHNOLOGY EDUCATION OPTION)**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Engineering Graphics 1001</td>
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<td>General education humanities</td>
<td>6</td>
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<td>English 1001, 1002</td>
<td>6</td>
<td>English courses</td>
<td>6</td>
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<tr>
<td>Mathematics 1021, and one of MATH 1100, 1022, or 1431</td>
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<td>General education physical sciences course</td>
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<tr>
<td>General education arts course</td>
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<td>Industrial &amp; Agricultural Technology 2011, 2021, 2051</td>
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<tr>
<td>General education biological sciences course</td>
<td>3</td>
<td>Experimental Statistics 2000</td>
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<tr>
<td>Construction 1583</td>
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<td>Industrial Education 2040</td>
<td>3</td>
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<td>Industrial Education 1001</td>
<td>3</td>
<td>Physical Science 1001, 1002</td>
<td>6</td>
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<tr>
<td>Industrial &amp; Agricultural Technology 2010</td>
<td>3</td>
<td>Vocational Education 2001</td>
<td>3</td>
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<tr>
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<tr>
<td>HPRD electives</td>
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**TOTAL SEM. HRS.: 138**
### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>Industrial &amp; Agricultural Technology</td>
<td>3022, 3024, 4012</td>
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<tr>
<td>Curriculum &amp; Instruction 3135, 3136</td>
<td>6</td>
</tr>
<tr>
<td>Industrial Education 2030</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
</tr>
<tr>
<td>Vocational Education 3201, 3601, 4101, 4201</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>History 2055 or 2057</td>
<td>3</td>
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<tr>
<td>Industrial Education 2031, 4070, 4080</td>
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<tr>
<td>Economics 2030</td>
<td>3</td>
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<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Speech Communication 2040, 2060, 2063 or 2862</td>
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<td>Vocational Education 4801, 4802, 4803</td>
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<tr>
<td>Elective</td>
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</tbody>
</table>

### AGRICULTURAL EDUCATION OPTION

The option in agricultural education prepares students for 1) teaching agricultural education in secondary schools; 2) working in agricultural business; and/or 3) serving as county extension agents. Course work is provided in various areas of agriculture, including plant and animal sciences, agricultural economics, and industrial and agricultural technology.

Professional education is offered through courses in methods and techniques for training youth and adults. During the senior year, students teach in a high school agriculture department and are supervised by the high school teacher and a faculty member from the School of Vocational Education.

Professional courses in agricultural education are available as electives at the junior and senior levels.

### CURRICULUM IN VOCATIONAL EDUCATION (AGRICULTURAL EDUCATION OPTION)

*TOTAL SEM. HRS.: 144*

**Recommended Electives: Industrial & Agricultural Technology 2001, 2011, 2066, 3024; Industrial Education 1001.**

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Agriculture 1001</td>
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<tr>
<td>Agronomy 1021</td>
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<tr>
<td>Animal Science 1011</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021 and one of MATH 1100, 1022, or 1431</td>
<td>6</td>
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<td>HPRD electives</td>
<td>2</td>
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<tr>
<td>Agricultural Economics 1098</td>
<td>3</td>
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<tr>
<td>Dairy Science 1048</td>
<td>3</td>
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<tr>
<td>Poultry Science 1049</td>
<td>3</td>
</tr>
<tr>
<td>Biology 1001, 1002</td>
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#### SOPHOMORE YEAR

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<th>SEM. HRS.</th>
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<td>Entomology 2001</td>
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<td>General education humanities</td>
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<td>English course</td>
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<td>Approved technical agriculture electives</td>
<td>6</td>
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<tr>
<td>Chemistry 1001, 1002</td>
<td>6</td>
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<tr>
<td>Curriculum and Instruction 1000.</td>
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<tr>
<td>HPRD 2601</td>
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<td>HPRD elective</td>
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#### JUNIOR YEAR

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<tr>
<td>Animal Science 2098</td>
<td>3</td>
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<tr>
<td>Economics 2030</td>
<td>3</td>
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<tr>
<td>Curriculum and Instruction 3135, 3136</td>
<td>6</td>
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<tr>
<td>Forestry 3051</td>
<td>2</td>
</tr>
<tr>
<td>Horticulture 2050</td>
<td>4</td>
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<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
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<tr>
<td>General education humanities</td>
<td>3</td>
</tr>
<tr>
<td>English course</td>
<td>3</td>
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<tr>
<td>Agricultural Economics 4015</td>
<td>3</td>
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<tr>
<td>History 2055 or 2057</td>
<td>3</td>
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<td>Vocational Education 3201</td>
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#### SENIOR YEAR

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<tr>
<td>Agronomy 4005</td>
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<td>Agricultural Economics 4051</td>
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<tr>
<td>General education speech communication course</td>
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</tr>
<tr>
<td>Agricultural Education 4819</td>
<td>4</td>
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<tr>
<td>Veterinary Science 3001, 3002</td>
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</tr>
<tr>
<td>Vocational Education 3601, 4201, 4504, 4801, 4802, 4803</td>
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</tbody>
</table>

### College of Agriculture
HOME ECONOMICS EDUCATION OPTION

The home economics education option is designed to prepare individuals for employment opportunities in formal and nonformal educational institutions or in related educational pursuits in business, industry, the cooperative extension service, and governmental agencies.

Home economics education includes: (1) studies of various home economics areas, including textiles and clothing; human food and nutrition; family life and environment; child development; housing equipment and design; home management and consumer economics; and (2) professional education (with early and continuing field experiences) in areas of educational and adolescent psychology; teaching skills and methods; instructional materials; management of the work setting; principles of vocational education; and student teaching.

During the senior year, each student must teach in a secondary school home economics department approved by the University faculty and the State Department of Education. The student teacher is supervised by the high school home economics teacher and a faculty member from the School of Vocational Education. An internship in the extension service or other agencies may be arranged. Certification in occupational home economics requires work experience and a specific program of study.

Louisiana certification/licensing for teaching in one or both of the following programs may be earned. (An ancillary certification is available for those holding other home economics degrees.) Undergraduate preparation for teacher certification includes education in 1) consumerism and homemaking, focused on helping people improve their quality of life, and 2) occupational home economics, focused on development of skills and knowledge necessary for employment in areas of food service; child care services; housing and design services; and institutional, home management, and supporting services.

CURRICULUM IN VOCATIONAL EDUCATION (HOME ECONOMICS EDUCATION OPTION)

TOTAL SEM. HRS.: 138

Electives: Considering individual career goals, a student should choose 11 sem. hrs. of approved program electives selected from offerings within the School of Vocational Education, or other areas of education, home economics, liberal arts, science, math, general education, business and management, or any other area of study.

Six sem. hrs. of ROTC may be taken as free electives. Approved science electives may be chosen from biochemistry, biology, botany, chemistry, microbiology, physics, physical science, and zoology. Approved social science electives must be selected from anthropology, economics, geography, history, political science, psychology, sociology, and survey of social sciences.

FRESHMAN YEAR  SEM. HRS.
Chemistry 1001, 1002 or 1201, 1202 ........................................ 6
English 1001, 1002 ................................................................ 6
Home Economics 1010, 1032, 1040 ........................................ 9
Program approved elective .................................................. 3
General education arts course .............................................. 3
HPRD 2601 ........................................................................ 1
Mathematics 1021, 1022 or 1100 or 1431 ............................... 6

JUNIOR YEAR  SEM. HRS.
Home Economics 2016 or 4016 ............................................ 3
Home Economics 3060 or 3061 ............................................ 3
Psychology 2060, 2078 ...................................................... 6
Economics 2030 ................................................................ 3
Vocational Education 3201, 4201, 4301 ................................ 9
HPRD 2600, 2603 or 2604 .................................................. 3
Home Economics 3062, 3070 .............................................. 6
Curriculum and Instruction 3135 ......................................... 3

SOPHOMORE YEAR  SEM. HRS.
Zoology 2160 .................................................................... 7
Curriculum and Instruction 1000 ......................................... 3
History 2055 or 2057 ....................................................... 3
Home Economics 2015, 2035, 2036, 2055 ............................ 12
Speech Communication 2040, 2060, 2063, or 2862 ............ 3
English 2020, 2022, 2025, 2027 ....................................... 6
General education biological sciences course ...................... 3
Vocational Education 2001 ............................................... 3

SENIOR YEAR  SEM. HRS.
Home Economics 4050, 4065, 4066 .................................... 9
Curriculum and Instruction 3136 ......................................... 3
General education social sciences course ............................ 3
Program approved elective ............................................... 3
Vocational Education 3101, 3601, 4801, 4802, 4803 ............ 15

BUSINESS EDUCATION OPTION

The business education option prepares students to become effective teachers in educational institutions and/or productive professionals in business, industry, or governmental agencies.
Students who successfully complete the option in business education will be certified to teach typewriting, accounting, shorthand, free enterprise, business law, consumer education, word processing, records management, data processing, and use of office machines. Students are also encouraged to enroll in courses for certification in computer literacy (nine hours) and cooperative office education (six hours, plus a minimum of 2000 hours of work experience in the business field).

During the senior year, each student must teach in a secondary school business education department. The student is supervised by the high school business education teacher and a faculty member from the School of Vocational Education.


**Teaching Minor—Typing and Shorthand**, 35 sem. hrs.: Economics 2030; Experimental Statistics 2000; Finance 3200; Business Education 2000, 2001, 2100, 2101, 2620, 3000, 3100, 3500; Business Administration 3200; Vocational Education 3201.

**CURRICULUM IN VOCATIONAL EDUCATION (BUSINESS EDUCATION OPTION)**

**TOTAL SEM. HRS.: 141**

Students majoring in business education should have 2000 clock hours of work experience appropriate to the field or fields in which they are seeking certification. Education practica may be used in partial fulfillment of this requirement.

_A two-semester sequence in either biological or physical sciences is required._

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>English 1001, 1002</td>
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<tr>
<td>HPRD elective</td>
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<tr>
<td>Mathematics 1021 and 1100 or 1022 or 1431</td>
<td>6</td>
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<tr>
<td>General education social</td>
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<td>sciences course</td>
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<td>History 2055 or 2057</td>
<td>3</td>
</tr>
<tr>
<td>Business Education 2000, 2001, 2100, 2101</td>
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<td>36</td>
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### JUNIOR YEAR

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<th>Course</th>
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<tr>
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<td>Curriculum and Instruction 3135, 3136</td>
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<td>General education humanities</td>
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<tr>
<td>English courses</td>
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<td>General education biological</td>
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<td>sciences courses</td>
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<td>Speech Communication 2060</td>
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<td>Vocational Education 3601</td>
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<td>Economics 2030</td>
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<td>Business Administration 3200</td>
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### SOPHOMORE YEAR

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<td>Psychology 2060, 2078</td>
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<td>Experimental Statistics 2000</td>
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<td>General education arts course</td>
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<td>General education physical</td>
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</tr>
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<td>sciences courses</td>
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<td>Program approved elective</td>
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### SENIOR YEAR

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<td>HPRD 2061</td>
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<tr>
<td>Program approved electives</td>
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</tbody>
</table>
The College of Arts and Sciences' primary purpose is to afford the student liberal education, which by its nature is broad rather than narrow, devoted to intellectual development and discipline rather than to the acquisition of technical skills. It should give the student some knowledge of the achievements of the human mind, with special reference to the western civilization of which both the ancient world and contemporary America are parts; the historical and cultural backgrounds essential to a true understanding of our world; and above all, orderly thinking processes and a scale of values by which the distinction can be made between permanent and trivial, substantial and pretentious, good and bad. To that end, some familiarity with historical and political studies, the sciences, and the arts is necessary. As a human being and as a citizen, the student will find this training of lasting significance. As a member of a profession, each student will find desirable backgrounds—for scholarship and teaching in all fields of knowledge; for law and medicine, which stress increasingly the value of broad intellectual training; for journalism, government service, and diplomacy. The curricula within the college require a number of courses deemed essential—individually and as a group—to the intellectual competence at which the liberal education aims; in addition to these, the student has electives which may be used to further general knowledge or to specialize in certain fields.

To accomplish its primary purpose, the college offers three broad programs: humanities, natural sciences, and social sciences. By following one of these programs, the student will obtain a much wider background than is generally possible under the standard curriculum. The advantages of broad training for everyday life are obvious. Moreover, the added breadth of knowledge will be helpful in case the student continues beyond the bachelor's degree level.

In addition to the above programs, the college offers preprofessional work for students who intend to study medicine, dentistry, library science, or social work, and professional curricula in journalism. The teaching divisions within the college, the various curricula, and the degrees which are offered are shown in the chart on the following page.
### CURRICULA

<table>
<thead>
<tr>
<th>Teaching Divisions</th>
<th>Curricula</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of Aerospace Studies</td>
<td>English (with options)</td>
</tr>
<tr>
<td>Department of English</td>
<td>German (with options)</td>
</tr>
<tr>
<td>Department of Foreign Languages and Literatures</td>
<td>Latin</td>
</tr>
<tr>
<td></td>
<td>Russian</td>
</tr>
<tr>
<td></td>
<td>Spanish</td>
</tr>
<tr>
<td>Department of French &amp; Italian</td>
<td>French</td>
</tr>
<tr>
<td></td>
<td>Italian</td>
</tr>
<tr>
<td>Department of Geography &amp; Anthropology</td>
<td>Anthropology</td>
</tr>
<tr>
<td></td>
<td>Geography*</td>
</tr>
<tr>
<td>Department of History</td>
<td>History</td>
</tr>
<tr>
<td>Division of Honors &amp; Interdisciplinary Studies</td>
<td></td>
</tr>
<tr>
<td>Department of Military Science</td>
<td>Philosophy</td>
</tr>
<tr>
<td></td>
<td>Religious Studies</td>
</tr>
<tr>
<td>Department of Philosophy</td>
<td>Political Science</td>
</tr>
<tr>
<td>Department of Political Science</td>
<td>Psychology*</td>
</tr>
<tr>
<td>Department of Psychology</td>
<td>Sociology</td>
</tr>
<tr>
<td>Department of Sociology</td>
<td>Speech</td>
</tr>
<tr>
<td>Department of Speech Communication, Theatre, &amp; Communication Disorders</td>
<td>Economics</td>
</tr>
<tr>
<td></td>
<td>Russian Area Studies</td>
</tr>
<tr>
<td>Manship School of Journalism</td>
<td>Advertising</td>
</tr>
<tr>
<td></td>
<td>Broadcast Journalism</td>
</tr>
<tr>
<td></td>
<td>News-Editorial</td>
</tr>
<tr>
<td>Department of Geography &amp; Anthropology</td>
<td>Geography*</td>
</tr>
<tr>
<td>Department of Mathematics</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Department of Psychology</td>
<td>Psychology*</td>
</tr>
</tbody>
</table>

### Combined Curricula

- Arts & Sciences—Medicine: B.S.
- Arts & Sciences—Dentistry: B.S.

*Both the Bachelor of Arts and the Bachelor of Science may be earned in geography and in psychology.*
STUDENT RESPONSIBILITY

Students in this college bear final responsibility for selection of their academic programs and adherence to all published regulations and requirements of the college and the University. Each student must see his or her counselor in the college office for a final degree checkout during the semester prior to the semester in which the degree is to be awarded.

ADMISSION REQUIREMENTS

Students will be eligible for admission to the College of Arts and Sciences if they have earned at least 24 or more semester hours, have a grade-point average of at least 2.00 ("A" = 4) in all work undertaken, and are eligible to enroll in English 1002. Transfer students from other divisions of the University and other accredited colleges and universities must meet the eligibility requirements stated above. Transfer credits acceptable for admission shall be valid for degree credit in the college only to the extent to which they represent courses acceptable in the curricula of the college.

GENERAL EDUCATION REQUIREMENTS

In addition to the degree requirements of the College of Arts and Sciences listed below, all students must also fulfill the general education requirements of the University in order to qualify for the bachelor's degree. Specific information concerning these general education requirements is in a separate section of this catalog.

DEGREE REQUIREMENTS OF THE COLLEGE

A. General Requirements

In order to qualify for a bachelor's degree in this college, a candidate must satisfy these requirements:

1. All group and course requirements as explained under "Curricular Requirements." (Students who break residence, either voluntarily or by compulsion, for at least two consecutive semesters, may not elect a catalog earlier than the one in force at the time of their re-entry.)
2. A minimum grade-point average of 2.00 ("A" = 4) on all work taken in the LSU System and on all work taken.
3. A minimum grade-point average in the major field of 2.00 ("A" = 4) on all work taken in the LSU System and on all work taken.
4. A minimum of 128 semester hours of degree credit.
5. A minimum of 34 semester hours in courses numbered 2000 or above and an additional 30 semester hours in courses numbered 3000 or above.
6. Degree credit will not be allowed for more than nine semester hours of 1000-level mathematics courses below 1550.
7. Degree credit will not be allowed for more than six semester hours of 1000-level English courses.
8. A minimum of fifteen semester hours in residence in the major field, including at least nine semester hours in courses numbered 3000 or above.
9. A minimum of 30 semester hours in residence in the college, including registration as a full-time student for at least two semesters. The last year of work (last 30 semester hours) will be taken in residence in this college on the LSU campus.
10. English proficiency. The proficiency requirement may be met in one of two ways: (a) an "A" or "B" in English 1002 or (b) a "C" in English 1002, followed by a passing grade on the English proficiency exam which is to be taken the next semester after completion of English 1002. Those not passing the proficiency exam will have one semester (beginning the next semester they are enrolled after taking the exam) to demonstrate proficiency by repeating ENGL 1002 and earning a grade of "B" or "A" or earning a grade of "C" or better in ENGL 2001. Students who fail to demonstrate proficiency in English by the end of the semester
College of Arts and Sciences

will be dropped permanently from the college. Although a grade of "A" or "B" in English 1002 or a passing grade on the proficiency exam is usually sufficient to meet the English proficiency requirement, any student may be reported by any professor for actual deficiency in the use of English in any course and may be required to remove the deficiency as a condition of graduation.

Students who enter the college before they take English 1002 must take the course their first semester in the college. They have two semesters to earn a "C" or better. An "A" or "B" means proficient; a "C" requires further work as indicated above.

11. Foreign language. All students are urged to schedule a foreign language each semester until the appropriate course has been completed. Students who select for study a foreign language in which they have some high school credit will take a placement test in that language and be registered at the course level appropriate to their score on the test (regardless of the amount of credit earned in high school). Credits, up to a maximum of 13 semester hours, may be earned by placement test and posted immediately. For placement purposes, the test is valid for two years. Advanced-standing credit for any course above 2053 must be established by credit examination.

It is recommended that students with foreign language credits earned at another college take the placement test for guidance in scheduling. In the absence of test scores, students with 1-2 semester hours of transfer credit should enter course 1001, 3-7 semester hours enter course 2051, 8-11 semester hours enter course 2053, and 12-14 semester hours enter course 2055.

Students who have a native fluency in a language other than English may satisfy the foreign language requirement in one of three ways: (a) by completing the prescribed number of hours in the curriculum for the B.A. or B.S. degree in a language other than English or their native language; (b) by taking a minimum of 12 hours in courses numbered above 2070 in their native language; or (c) by taking nine semester hours of English and/or speech above the minimum requirements, as stated in the curriculum for the B.A. or the B.S. degree. (Only three hours may be earned in English 2001, 2002, or 2010 to meet this requirement. Professional and specialized courses in speech may not be counted toward this requirement.)

Students who have a native fluency in a language other than English should consult credit restrictions in that language under the appropriate foreign language department entry in this section of the catalog.

B. Curricular Requirements

The college has divided its subjects of study into the following three groups:

<table>
<thead>
<tr>
<th>Group I—Humanities</th>
<th>Group II—Natural Sciences</th>
<th>Group III—Social Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>Biology</td>
<td>Anthropology</td>
</tr>
<tr>
<td>Oriental Languages</td>
<td>Botany</td>
<td>Economics</td>
</tr>
<tr>
<td>(Chinese, Japanese)</td>
<td>Marine Sciences</td>
<td>Geography</td>
</tr>
<tr>
<td>Classical Languages</td>
<td>Microbiology</td>
<td>History</td>
</tr>
<tr>
<td>(Latin, Greek)</td>
<td>Zoology</td>
<td>Political Science</td>
</tr>
<tr>
<td>English</td>
<td></td>
<td>Psychology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ROMANCE LANGUAGES (French, Italian, Spanish)</th>
<th>MATHEMATICAL</th>
<th>PHYSICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>German</td>
<td>Computer science</td>
<td>Astronomy</td>
</tr>
<tr>
<td>Journalism</td>
<td>Mathematics</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Music</td>
<td></td>
<td>Geology</td>
</tr>
<tr>
<td>Philosophy</td>
<td></td>
<td>Physical Sciences</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Physics</td>
</tr>
</tbody>
</table>

1. DISTRIBUTION REQUIREMENTS FOR THE DEGREE

In addition to satisfying the departmental requirements for the major field, candidates for the B.A. and the B.S. degrees must meet minimum distribution requirements as outlined below:
Bachelor of Arts (Humanities)

1. **Group I**—at least 48 semester hours, but not more than 85 semester hours for degree credit.
   b. Literature: English 2020 and 2022, or 2025 and 2027; or French 2071 and 2072, or 4081 taken twice when subject matter varies; or German 3083 and 3084, or 3091 taken twice when subject matter varies; or Honors 2002 and 3001 or 3003, or 3001 and 3003; or Spanish 3071 and 3072, or 4081 and 4082; or Greek 2075, 3032, or 3040 (select two); or Russian 2071 and 2072, or 4081 and 4082.
   c. Foreign language: through course 2055 (2000-level course above 2053, excluding 2080 and 2090, for Latin).
   d. Courses in Group I other than English or foreign languages: six semester hours.

2. **Group II**
   a. Biological and physical sciences: A minimum of a year course (six semester hours) with two semester hours of accompanying laboratory in either the biological or physical sciences. Six additional hours must also be completed in the alternate sciences for a total of 14 semester hours. Mathematics and computer science are considered mathematical sciences and cannot be used to fulfill the biological and physical sciences requirement.
   b. Mathematics: 1021 or above.

3. **Group III**
   a. History: a minimum of six semester hours offered by the Department of History.
   b. Nine semester hours in at least two additional Group III subjects exclusive of history.

Bachelor of Arts (Social Sciences)

1. **Group I**
   b. Literature: English 2020 and 2022, or 2025 and 2027; or French 2071 and 2072, or 4081 taken twice when subject matter varies; or German 3083 and 3084, or 3091 taken twice when subject matter varies; or Honors 2002 and 3001 or 3003, or 3001 and 3003; or Spanish 3071 and 3072, or 4081 and 4082; or Greek 2075, 3032, or 3040 (select two); or Russian 2071 and 2072, or 4081 and 4082.
   c. Foreign language: through course 2053—except anthropology, which requires 2055 (2000-level course above 2053, excluding 2080 and 2090, for Latin).
   d. Courses in Group I other than English or foreign languages; six semester hours.

2. **Group II**
   a. Biological and physical sciences: A minimum of a year course (six semester hours) with two semester hours of accompanying laboratory in either the biological or physical sciences. Six additional hours must also be completed in the alternate sciences for a total of 14 semester hours. Mathematics and computer science are considered mathematical sciences and cannot be used to fulfill the biological and physical sciences requirement.
   b. Mathematics: 1021 or above.

3. **Group III**—at least 48 semester hours, but not more than 85 semester hours for degree credit.
   a. History: a minimum of six semester hours offered by the Department of History.
   b. Nine semester hours in at least two additional Group III subjects exclusive of history.

Bachelor of Science (Natural Sciences)

1. **Group I**
   b. Literature: English 2020 and 2022, or 2025 and 2027; or French 2071 and 2072, or 4081 taken twice when subject matter varies; or German 3083 and 3084, or 3091 taken twice when subject matter varies; or Honors 2002 and 3001 or 3003, or 3001 and 3003; or Spanish 3071 and 3072, or 4081 and 4082; or Greek 2075, 3032, or 3040 (select two); or Russian 2071 and 2072, or 4081 and 4082.
   c. Foreign language: through course 2053.
   d. Courses in Group I other than English or foreign languages: six semester hours.

2. **Group II**—at least 48 semester hours, but not more than 85 semester hours for degree credit.
a. Biological and physical sciences: A minimum of a year course (six semester hours) with two semester hours of accompanying laboratory in either the biological or physical sciences. Six additional hours must also be completed in the alternate sciences for a total of 14 semester hours. Mathematics and computer science are considered mathematical sciences and cannot be used to fulfill the biological and physical sciences requirement.

b. Mathematics: At least five semester hours in mathematics selected from courses numbered 1021 or above.

3. Group III

a. History: a minimum of six semester hours offered by the Department of History.

b. Nine semester hours in at least two additional Group III subjects exclusive of history.

For purposes of major only, psychology or geography may be considered as a natural science, and students who elect to do so may earn a B.S. instead of a B.A. degree. Such students will fulfill all the requirements for the Bachelor of Science degree as listed above; and they may not use geography or psychology as one of the required three subjects in Group III.

Courses offered by the Division of Honors and Interdisciplinary Studies

Honors (HNRS) courses provide the following curricular equivalents:

<table>
<thead>
<tr>
<th>Honors Course</th>
<th>Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001</td>
<td>English 1002 or humanities elective</td>
</tr>
<tr>
<td>1003</td>
<td>History 1001 or social sciences elective</td>
</tr>
<tr>
<td>1007</td>
<td>Biological sciences elective with laboratory</td>
</tr>
<tr>
<td>1008</td>
<td>Biological sciences elective with laboratory</td>
</tr>
<tr>
<td>1101</td>
<td>English 1002 or humanities elective</td>
</tr>
<tr>
<td>1103</td>
<td>History or social sciences elective</td>
</tr>
<tr>
<td>2002</td>
<td>Literature elective—may be used to partially satisfy the literature requirement for the College of Arts &amp; Sciences and College of Basic Sciences</td>
</tr>
<tr>
<td>2004</td>
<td>History or social sciences elective</td>
</tr>
<tr>
<td>2011</td>
<td>Humanities or social sciences elective, depending on content</td>
</tr>
<tr>
<td>2012</td>
<td>Humanities or social sciences elective, depending on content</td>
</tr>
<tr>
<td>2013</td>
<td>Humanities or social sciences elective, depending on content</td>
</tr>
<tr>
<td>2021</td>
<td>Humanities elective</td>
</tr>
<tr>
<td>3001</td>
<td>Literature elective or social sciences elective—may be used to partially satisfy the literature requirement for the College of Arts &amp; Sciences and College of Basic Sciences</td>
</tr>
<tr>
<td>3003</td>
<td>Literature elective or social sciences elective—may be used to partially satisfy the literature requirement for the College of Arts &amp; Sciences and College of Basic Sciences</td>
</tr>
<tr>
<td>3030</td>
<td>Humanities elective</td>
</tr>
<tr>
<td>3031</td>
<td>Social sciences elective</td>
</tr>
<tr>
<td>3033</td>
<td>Social sciences elective</td>
</tr>
<tr>
<td>3035</td>
<td>Natural sciences elective</td>
</tr>
<tr>
<td>3100</td>
<td>Elective in area of internship activity</td>
</tr>
<tr>
<td>3991-3992</td>
<td>Elective in humanities, social sciences, or natural sciences depending on topic</td>
</tr>
</tbody>
</table>

2. MAJOR FIELD REQUIREMENTS

Candidates for a degree in the college will choose one of the three groups above (humanities, natural sciences, or social sciences) in which to do the majority of their work and will select one subject within that group as their major field. In their major field, they will satisfy departmental requirements but may not use more than 37 hours in any single subject (33 hours in journalism) to satisfy the 128-hour requirement for the degree. Departmental requirements for majors are given later in this section.

Students may pursue double majors in the college. Both majors must be offered by departments within the college. Students pursuing double majors must fulfill all degree requirements for both majors.

From the courses listed in the group chosen, students will take for degree credit not fewer than 48 nor more than 85 semester hours, including hours taken in the major field.
3. MINOR FIELD REQUIREMENTS (OPTIONAL)

Although students are not required to pursue a minor field (except in the School of Journalism), they may choose to do so under the following guidelines:

1. Earn a minimum of 15-18 semester hours in the minor field, of which at least six semester hours must be in courses taken on this campus at the 3000- and/or 4000-level; see individual departments in the “Departments, Schools, and Curricula” section of this chapter for more specific requirements.

2. Earn a minimum grade-point average in the minor field of 2.00 on all work taken in the LSU System and on all work taken.

3. Courses used to satisfy minor requirements may not be taken on a Pass/Fail basis.

4. Minor fields may be selected from any major field currently offered by the college in which appropriate requirements for a minor have been established or any field of an interdisciplinary nature for which a minor has been approved by the Faculty Senate Courses and Curricula Committee and the Office of Academic Affairs.

Minors may also be taken in fields outside the college if:

1. the total number of semester hours does not exceed 24 (total number of non-arts and sciences electives that may be counted toward graduation);

2. the work conforms to guidelines established by the department, school, and college concerned;

3. the work meets the general minor field requirements of the College of Arts and Sciences stated above.

4. The following departments offer minors outside the college: Botany, Chemistry, Computer Science, Geology and Geophysics, Physics and Astronomy, and Zoology and Physiology. The following are requirements for non-Arts and Sciences minor fields designed solely for students in the College of Arts and Sciences:

   Business Administration

   In order to graduate with a minor in business administration, students in the College of Arts and Sciences must complete Accounting 2000 or 2001, 2101; Economics 2030, 2035; Finance 3201, 3715; Management 3159; Marketing 3401; and one of the following: Speech Communication 2010, 2061, 2064, 4101, 4113, or 4114. The QBA 2000 prerequisite for Finance 3715 may be satisfied with a descriptive statistics course. The six semester hours in economics may be counted as arts and sciences courses. Students interested in pursuing a Master’s of Business Administration degree should elect Accounting 2001 and Mathematics 1431 and 1435.

   Criminal Justice

   In order to graduate with a minor in criminal justice, students in the College of Arts and Sciences must complete Criminal Justice 1107 and at least 12 additional hours in criminal justice. At least six hours must be in courses numbered 3000 and above.

   Social Work

   In order to graduate with a minor in social work, students in the College of Arts and Sciences must complete a minimum of 15 hrs. of social work courses, of which at least six semester hrs. must be in courses numbered 3000 and above.

ELECTIVES

A student in the College of Arts and Sciences may elect for degree credit any course offered by the following departments or schools:

Aerospace Studies
Art
Biochemistry
Books and Libraries
Botany
Chemistry
Computer Science
Curriculum and Instruction
Economics
English
Entomology
Environmental Studies
Experimental Statistics

Foreign Languages and Literatures
French and Italian
Geography and Anthropology
Geology and Geophysics
History
Honors and Interdisciplinary Studies
Journalism
Marine Sciences
Mathematics
Microbiology
Military Science
Music
Nuclear Science
Philosophy
A student may receive a maximum of six semester hours of degree credit in basic ROTC and a maximum of six semester hours of degree credit in advanced ROTC.

In departments not listed above, students may elect courses for which they have the prerequisites. Twenty-four semester hours of elective credit in such courses may be counted toward graduation from this college. No more than eight hours of HPRD activity courses may be counted toward graduation from this college.

CORRESPONDENCE, EXTENSION, & MILITARY SERVICE CREDITS

A maximum of 32 semester hours of credit in the above categories is acceptable toward meeting degree requirements. Students who wish to have correspondence credits accepted by the college must make their registration in correspondence courses a matter of record in the office of the dean of the college at the time of such registration. Students registered in the college may enroll in a maximum of 18 semester hours of combined resident and correspondence course work during a regular semester. They may enroll in a maximum of nine semester hours of combined resident and correspondence course work during a summer term. Students may not be enrolled in correspondence course work the semester they intend to graduate. Depending on the correspondence course, a special time limit may be imposed by the dean's office.

PLACEMENT SERVICES

Students in this college may use the services of the University's Career Planning and Placement Center. These services include counseling, job-seeking skills workshops, job search handbooks, résumé service, career days, and on-campus recruiting and interviews.

PHI BETA KAPPA

Juniors and seniors with grade-point averages of 3.80 and 3.50, respectively, are considered for membership in Phi Beta Kappa, the oldest and one of the most prestigious scholastic honor societies in the United States. Excellence in a variety of intellectual disciplines, rather than proficiency in a single field of study, is the major criterion for election. The academic record should include the following courses: at least one mathematics course beyond 1021 or comparable courses in logic or computer science; a foreign language through the basic courses required by the college, with advanced courses highly desirable; two courses in English or American literature at the 2000-level (English 2020 and 2022 preferred), or unusual strength in literature in a foreign language; courses in several humanities and social sciences, some of which must be above 3000; six hours each of a life science and a physical science, plus two hours of related laboratory work in one of these fields; and electives that show a commitment to a liberal education. Sophomores and juniors with high grade-point averages should consult with Phi Beta Kappa faculty advisors or college counselors for more specific information.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

Students desiring permission to work toward a second undergraduate degree must have completed their previous degree with at least a 2.50 average. To qualify for a second bachelor's degree in this college, students must complete (with a minimum average of 2.50) a program of studies which comprises at least 30 semester hours, including any stated degree requirements not previously met, and must complete at least two semesters in residence as full-time students. The program of studies planned for this purpose must have the endorsement and approval of the chairman of the major department and the dean of the college. Petitions for permission to begin work on a second bachelor's degree must be filed in the dean's office prior to registration.

PREPARATION FOR THE STUDY OF LAW

Because of the rich complexity of this discipline, students with very different academic backgrounds can undertake and excel in the study of law. There is no single curriculum or course of
study which is prerequisite to or guarantees success in law school. Curricula in the College of Arts and Sciences provide excellent preparation for students who intend to study law.

The degree requirements of the college ensure the development of the following skills, which are essential components of pre-law training: 1) the ability to express oneself competently in writing; 2) the ability to understand the human institutions and values with which the law deals; and 3) the ability to think creatively. Students who intend to pursue a legal career are therefore encouraged to choose a curriculum in the College of Arts and Sciences.

Interested students should contact the pre-law advisor in their major department for additional information.

PREPROFESSIONAL EDUCATION IN MEDICAL SCIENCES

Early in their college career, students who intend to enter a professional school of dentistry, medicine, optometry, osteopathy, pharmacy, or physical therapy should examine the current catalog of the school of their choice for specific admission requirements. The college will help students select suitable preprofessional courses. Premedical and predental students should consult with the premedical counselor, 338 Choppin Hall.

Students in this college planning to apply to medical or dental schools may pursue a major in any of the academic departments of the college. Students must be careful, however, to fulfill both degree requirements of their major and admission requirements of the professional school.

COMBINED CURRICULA

Completion of the three-year undergraduate portions of any of the combined curricula does not assure acceptance into the professional schools of the LSU System.

Curriculum in Arts and Sciences—Medicine or Dentistry

Premedical or predental students may choose to substitute the first full year’s work at one of the LSU Schools of Medicine (in New Orleans or in Shreveport) or Dentistry (in New Orleans) for the senior year in the College of Arts and Sciences. Enrollment in a combined premedical or predental curriculum is a privilege. Participation is restricted to those students whose scholarly maturity, as reflected in grades earned, indicates ability to benefit from the accelerated program. Students must satisfy the requirements stipulated below for graduation under the program.

Students in either of the combined curricula must have:

1. Earned a grade-point average of 3.00 or higher ("A" = 4) on 45 semester hours of work (excluding books and libraries, ROTC, and physical education courses) by the end of the third semester in residence at LSU and must maintain a 3.00 grade-point average to be eligible for graduation under the program;
2. Spent at least the last two semesters (minimum of 30 semester hours) as a full-time student in residence in the College of Arts and Sciences;
3. Completed all general education requirements; and
4. Completed prior to matriculation at dental or medical school: (a) for premedical students, a minimum of 98 semester hours or (b) for predental students, a minimum of 108 semester hours from the courses listed below.

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and biological and physical sciences, literature, mathematics, and social sciences requirements.

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212, 2251, 2252, 2261, 2262, 2364</td>
<td>Zoology 2152</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>English 2020, 2022, or 2025, 2027</td>
</tr>
<tr>
<td>Foreign language (through course 2053)</td>
<td>General education arts course</td>
</tr>
<tr>
<td>History</td>
<td>(select from art, music, philosophy, theatre)</td>
</tr>
<tr>
<td>Mathematics 1021, 1022 or 1023 or 1550</td>
<td>Approved humanities course</td>
</tr>
<tr>
<td>1023 or 1550</td>
<td>(other than English or foreign language)</td>
</tr>
<tr>
<td>Microbiology 2051</td>
<td>General education social sciences</td>
</tr>
<tr>
<td>Physics 2001, 2002, 2108, 2009</td>
<td>(courses numbered 2000 or above in at least two subjects other than history)</td>
</tr>
<tr>
<td>Zoology 1001, 1002 or Biology 1001, 1002, 1003, 1004</td>
<td>98-108</td>
</tr>
</tbody>
</table>
Basic sciences courses taken in the preprofessional program that duplicate first-year courses of either medical or dental school may not be offered for credit in meeting the minimum semester-hour credit requirements in the combined curriculum.

Upon successful completion of the first year of medical or dental school, the student may apply for and receive the degree of Bachelor of Science awarded by the College of Arts and Sciences.

Only those students who enter the University with exceptionally good preparation and maintain a high level of performance in their college work should plan to follow a combined curriculum. Other qualifications being equal, admission preference is given to those students who will have received the bachelor’s degree prior to registration in medical or dental school.

Students should contact the College of Arts and Sciences for additional details.

**Division of Honors and Interdisciplinary Studies**

DIRECTOR: Seay, Professor

ASSOCIATE DIRECTOR: Hardy, Professor

ASSOCIATE DIRECTOR, STUDENT SERVICES: Lipscomb, Associate Professor

The Division of Honors and Interdisciplinary Studies was established to provide a special opportunity for students who have potential for superior academic performance in college and who seek added dimension, enrichment, and challenge in their studies. Honors work is intended to permit academically able students to advance as fast as their abilities permit and to encourage in their study a range and depth in keeping with their greater intellectual interests. The division offers a curriculum of challenge, flexibility, and freedom, the fellowship of equally dedicated students, and the counseling services of a director, advisor, and advisory faculty.

Participation in the division supplements, but does not replace, work in a major field. Credits earned in division courses may meet general education requirements (e.g., freshman English, history, and literature requirements). Division and departmental advisors assist in assuring full translation of honors courses into requirements of the major curriculum.

**PARTICIPATION IN THE HONORS PROGRAM**

Prior to matriculation in the fall semester, qualified students are invited to participate in freshmen-level honors courses on the basis of their ACT scores. For the spring semester, performance during the preceding semester becomes the criterion for admission or retention. Participants will schedule Honors 1001/1003 or 1101/1103 in the fall and Honors 2002/2004 in the spring. Students may also choose honors sections of departmental courses (e.g., MATH 1551). The honors life sciences sequence, Honors 1007/1008, satisfies the general education biological sciences requirement.

After the freshman year, honors students may follow a curriculum that leads to "Sophomore Honors Distinction," as well as graduation with "College honors" (see below).

The upper-level seminars are designed to supplement departmental courses. Offerings vary from year to year. For course descriptions in any given semester, consult the division director before or during registration.

**SOPHOMORE HONORS DISTINCTION**

Students who have (1) completed 20 hours of honors courses including either Honors 1001/1003 or 1101/1103 and/or 2002/2004 and/or Honors 3001/3003, and one honors sciences sequence or honors mathematics course and (2) attained a 3.30 cumulative GPA will be designated as having achieved "Sophomore Honors Distinction." This designation will be made by the deans of their colleges upon recommendation of the director of the Division of Honors and Interdisciplinary Studies and will include a notation on the transcript and a certificate awarded at the end of four semesters.

**UPPER DIVISION HONORS DISTINCTION**

To achieve upper division honors distinction, a student must meet the following requirements:

1. Take at least 12 semester hours of honors courses at the 3000 level or above, including three to six hours of thesis/project.
2. Have the sequence of honors courses approved by the college, the major department, the director of the Honors Division, and the president of the Honors Board.

3. Demonstrate competence in research, in the preparation of a senior honors thesis/project in the major field, take an oral examination, or make a presentation of the project before a committee of three or more faculty members appointed by the chairman of the student’s academic department. The thesis/project advisor should be from the student’s major department. At least one member of the committee should be from a department outside the student’s major.

4. Achieve, after the sophomore year, a grade-point average of at least 3.33 (‘‘A’’ = 4.00) on both LSU and overall academic work, and no grade lower than a ‘‘B’’ in any honors course taken after the sophomore year.

5. Fulfill all additional degree requirements and upper division honors requirements of the student’s college.

GRADUATION WITH COLLEGE HONORS

To graduate ‘‘with college honors,’’ a student must meet the following requirements:
1. achieve ‘‘Sophomore Honors Distinction;’’
2. take at least 18 semester hours of honors seminars or departmental honors courses beyond the minimum required for ‘‘Sophomore Honors Distinction;’’
3. register in a curriculum offered in the College of Arts and Sciences;
4. complete a foreign language through 2055;
5. complete a curriculum of courses totaling at least 128 hours approved by the department concerned and by the director and the faculty of the division. This curriculum should be developed using the general curricular principles of the college, the purposes of which are to afford students a liberal education and to include (besides the major field) historical and political studies, the biological and physical sciences, the humanities, and the arts;
6. demonstrate competence in a major field by doing independent research, writing a senior thesis, and taking an oral examination. The thesis advisor and one additional member of the student’s committee must be from the student’s major department;
7. after the freshman year, maintain at least a 3.33 gpa (‘‘A’’ = 4.00).

HONORS COURSES

Besides courses offered through the Division of Honors and Interdisciplinary Studies, other honors courses are offered through various departments, including:

Anthropology 4999
Chemistry 1421, 1422, 1431, 1432, 2463
English 1003, 2021, 2023, 2026, 2028, 2925, 2927, 2929, 3000, 3820, 3821, 3822, 3823, 3824, 3825
French 2052, 2054, 2056
Geography 4999
Geology 1002, 1004
History 1002, 1004, 2056, 2058, 3100, 3109, 3110

Mathematics 1101, 1551, 1553, 2058, 2086
Philosophy 2034, 2036, 2952, 2953, 2963, 2964, 2965, 3901, 3902
Political Science 2052, 3000, 3809, 3896, 3897
Physics 1201, 1202, 1208, 1209
Psychology 2001
Sociology 3905
Spanish 1002, 2052, 2054, 2056
Speech Communication 1062, 2862
Zoology 1003, 3950, 3951

Departments, Schools, and Curricula

DEPARTMENT OF AEROSPACE STUDIES

HEAD: Smith, Professor

OFFICE: 105 Military Science/Aerospace Studies Bldg.

TELEPHONE: (504) 388-4407

PROFESSOR: Smith

ASSISTANT PROFESSORS: Baxley, Hooffstetter, Postulka
For information on this department's program, see the "Reserve Officers Training Corps" section of this catalog.

ECONOMICS (INTERCOLLEGIATE PROGRAM)

Students majoring in economics in the College of Arts and Sciences are required to take Economics 2010, 2020, 2035, 4710 and 4720. Other economics courses (at least 30 semester hours required for the major) must be chosen with the advice and approval of the arts and sciences advisor in the Department of Economics. Students are encouraged to take a calculus course.

CURRICULUM IN ECONOMICS

TOTAL SEM. HRS.: 128

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 2010, 2020</td>
<td>6</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>Foreign language courses</td>
<td>10</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences</td>
<td>6-8</td>
</tr>
<tr>
<td>(one science with 2 sem. hrs. of lab)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>31-33</td>
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SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Economics 2035</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language (through course 2053)</td>
<td>3</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>Approved economics elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved history elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved literature courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>4</td>
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<td></td>
<td>31-33</td>
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JUNIOR YEAR

<table>
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<tr>
<td>Economics 4720</td>
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<tr>
<td>Approved economics electives</td>
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<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course (other than English or foreign language)</td>
<td>3</td>
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<tr>
<td>General education social sciences course</td>
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<tr>
<td>Approved electives</td>
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<td></td>
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SENIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
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</thead>
<tbody>
<tr>
<td>Economics 4710</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course</td>
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<tr>
<td>Approved history elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved economics electives</td>
<td>6</td>
</tr>
<tr>
<td>Approved social sciences courses (6 hrs. in two fields other history or economics)</td>
<td>9</td>
</tr>
<tr>
<td>Approved electives</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

DEPARTMENT OF ENGLISH

CHAIRMAN: J. May, Professor

BOYD PROFESSOR & WILLIAM A. READ PROFESSOR

EMERITUS OF ENGLISH LITERATURE: Simpson

LSU FOUNDATION HENRY J. VOORHIES PROFESSOR OF ENGLISH: Olney

PROFESSORS: Bourjaily, Broughton, de Caro, Carrithers, Codrescu, Crump, Fischer, Fogel, Hobson, Humphries, Kennedy, J. May, Moore, Nardo, Parker, J. Roberts, L. Sasek

ASSOCIATE PROFESSORS: Barthelemy, Bennett, Borck, Cowan, Crone, W. Evans, Eyster, J. Gellrich, M. Gellrich, Hintze, Jordan, Jourinet, Kamenez, Kronick, Liggett, Richardson, Weaver

WRITER-IN-RESIDENCE: Madden


OFFICE: 211 Allen Hall

TELEPHONE: (504) 388-2236
ARTIST-IN-RESIDENCE: Euba


Students minoring in English must complete 18 semester hours of English courses in addition to freshman English. Requirements are English 2020 (or 2021) and 2022 (or 2023) or 2025 (or 2026) and 2027 (or 2028); Shakespeare (2148, or 4148, or 4149); nine hours of electives, at least six of which must be at the 3000-level or higher, chosen from the list of courses approved for English majors.

A special curriculum leading to the B.A. degree with departmental honors in English is also offered. Details are available from the departmental office.

Undergraduates expecting to do graduate work should plan to take the Graduate Record Examination during the fall semester preceding their graduation.

Graduate students should consult the section entitled ‘Department of English’ in the Graduate School Catalog.

CURRICULUM IN ENGLISH (WITH OPTIONS)

TOTAL SEM. HRS.: 128

Students majoring in English must complete, with at least a 2.00 average, a total of 36 semester hours in the subject, 15 of which must be in courses numbered 3000 or above. Three options are offered: literature, language, and creative writing. Special requirements for each option are as follows:

**Literature Option:** English 2020 (or 2021) and 2022 (or 2023); three hours in Shakespeare (2148, 4148, 4149); three hours in Chaucer (4137) or Milton (4147); courses in at least four of the following literary periods and disciplines:

a. Writing and Language: English 3001, 3002, 3012, 3014, 3101, 4001, 4002, 4005, 4006, 4007, 4008, 4010, 4011, 4012, 4013, 4014, 4015, 4016, 4017, 4018.

b. Medieval and Renaissance: English 4030, 4040, 4041, 4044, 4048, 4049.

c. Restoration and 18th Century: English 4050, 4051, 4055.

d. 19th Century: English 4060, 4061, 4062, 4063, 4065.

e. 20th Century: English 4085, 4086, 4087, 4088, 4187.


g. Backgrounds to Literature: English 2423, 3033, 3124, 3210, 3220, 3232, 3236, 3401, 3593, 4024, 4084, 4231, 4475, 4480, 4493, 4593.

**Language Option:** English 2020 (or 2021) and 2022 (or 2023) or 2025 (or 2026) and 2027 (or 2028); 12 hours from the following (at least 9 hours must be in courses numbered 3000 or above): 2010, 2012, 3012, 3014, 4010, 4011, 4012, 4013, 4014, 4015, 4016, 4018; one of the following: Chaucer (4137), Shakespeare (2148, 4148, 4149), or Milton (4147); courses in at least three of the seven literary periods and disciplines described above.

**Creative Writing Option:** English 2020 (or 2021) and 2022 (or 2023) or 2025 (or 2026) and 2027 (or 2028); two of the following: English 2005, 2007, 2008; one of the following: Chaucer (4137) Shakespeare (2148, 4148, 4149), or Milton (4147); two of the following: English 4001, 4005, 4006, 4007, and 4008; English 4000 (must be taken in the senior year); and courses in at least two of the seven literary periods and disciplines described above.

Consult 'Degree Requirements of the College' in this section of the catalog for specific instructions regarding electives and general education, biological and physical sciences, mathematics, and social sciences requirements.

The following suggested curricula show the college course distribution requirements. Individual students' curricula will vary.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>10</td>
</tr>
<tr>
<td>General education biological</td>
<td></td>
</tr>
<tr>
<td>(or physical sciences (one science</td>
<td>6-8</td>
</tr>
<tr>
<td>with 2 sem. hrs. of lab)</td>
<td></td>
</tr>
<tr>
<td>Approved history elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>31-33</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option requirements</td>
<td>6</td>
</tr>
<tr>
<td>Foreign language (through course 2055)</td>
<td>6</td>
</tr>
<tr>
<td>General education biological (or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>Approved humanities course (other than English or foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>Approved history electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>31-33</td>
</tr>
<tr>
<td>JUNIOR YEAR</td>
<td>SEM. HRS.</td>
</tr>
<tr>
<td>-------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Option requirements</td>
<td>12</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences courses (two fields other than history)</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>11</td>
</tr>
</tbody>
</table>

DEPARTMENT OF FOREIGN LANGUAGES AND LITERATURES

**ACTING CHAIRMAN:** Di Napoli, Associate Professor

**PROFESSORS:** de Armas, Hart, Newby, Ricapito

**ASSOCIATE PROFESSORS:** Clarke, Creel, Del Caro, Di Napoli, Edgeworth, Hintze, Kirby, Kitchell, Parker, Rivera-Rodas, Schierling

**ASSISTANT PROFESSORS:** Batinski, Dolgin, Lewis, Pizer, Ramsey, Soufas, Stanton, Tuman

**INSTRUCTORS:** Allan, Blossman, Di Maio, McVay, Spurrier

A *minor in German* consists of a total of 22 hours, six of which must be numbered 3000 or above. A *minor in Russian* consists of a total of 22 hours, six of which must be numbered 3000 or above. Those courses specifically designated as being offered in translation cannot be counted as fulfilling part of the minor requirement in German or Russian. Persons whose native language is German or Russian may not take for credit courses 1001, 2051, 2053, or 2055 in that language.

To obtain a *minor in Latin or Greek*, a student must have a minimum of 17 hours of instruction in that language at the 2000 level and above. At least six hours must be taken at the 3000 level or above.

To obtain a *minor in classical civilization*, a student must have a minimum of 18 hours of approved courses, of which no more than six hours may be taken outside the department. At least six hours must be at the 3000 level or above. Any course in Latin or Greek language, numbered 2000 or above, may count toward the minor, as may Greek 2075, 3015, 3032, 3040, and Latin 2090. A list of courses outside the department which may count toward the minor is available in the departmental office or from counselors in the College of Arts and Sciences.

Beginning and intermediate Spanish is taken in the following sequence: 1001, 2051, 2053, and 2055. In the beginning courses, emphasis is placed on early development of the skills of understanding and speaking, and extensive use is made of tape recordings in the Language Laboratory. Intermediate courses place increased emphasis on reading and writing as well as oral-aural practice.

Students who have a native fluency in Spanish may not take for credit courses numbered below 2061.

Requirements for a *Spanish minor* are completion of at least 15-18 hours in Spanish, at least six hours of which must be at the 3000 and/or 4000 level.

Spanish honors courses are 2052, 2054, and 2056. A special curriculum leading to the B.A. degree with departmental honors in Spanish is also available. Details may be obtained from the departmental office.

**CURRICULUM IN GERMAN (WITH OPTIONS)**

**TOTAL SEM. HRS.: 128**

Four options are available to students majoring in German: language and literature, language and linguistics, literature, and culture and thought. German 2090 and 3490 may not be used to satisfy the requirement of 32 sem. hrs. of German courses above the 2000 level in any option. Students electing the language and linguistics option are urged to take English 4010 and 4012 and Communication Disorders 4150. Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.
<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>German 1001, 2051</td>
<td>10</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>Approved history electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>31-33</strong></td>
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</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>German 2053, 2055</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>Approved history elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved literature courses (language and linguistics option only; other options substitute approved electives)</td>
<td>6</td>
</tr>
<tr>
<td>General education humanities course (other than English or foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>31-33</strong></td>
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<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option requirements*</td>
<td>12</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
<td>3</td>
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<tr>
<td>General education social sciences courses (two fields other than history)</td>
<td>6</td>
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<tr>
<td>Approved electives</td>
<td>11</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Option requirements**</td>
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<tr>
<td>Approved social sciences elective</td>
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<tr>
<td>Approved electives</td>
<td>20</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
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</tbody>
</table>

*Language and Literature Option: German 3083, 3084, and additional approved courses with emphasis on German language or literature. Language and Linguistics Option: German 2061, 2062, 4001, 4002. Literature Option: German 3083, 3084, and additional approved courses in German literature and the literature of other nations. Culture and Thought Option: German 2075; 3083; 3084 or 4915; and an additional approved course in German literature or a course related to German culture and thought offered in another department.

**Language and Literature Option: Approved German courses with emphasis on German language or literature. Language and Linguistics Option: German 4915 and additional approved language courses in other departments. Literature Option: German 4915 and additional approved courses in German literature and the literature of other nations. Culture and Thought Option: Approved courses in German literature or courses related to German culture and thought offered in another department.

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**CURRICULUM IN LATIN**

**TOTAL SEM. HRS.: 128**

Students majoring in Latin must complete a minimum of 31 semester hours in Latin, with at least six hours at or above the 3000 level. In addition, at least one semester of ancient Greek must be completed. Students electing this major are advised to take History 2001 and 2002 or History 4001, 4003, and 4004. Courses in ancient art and philosophy are recommended. Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<td>Latin 1001, 2051</td>
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<tr>
<td>Mathematics 1021</td>
<td>3</td>
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<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
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<td>General education arts course (select from art, music, philosophy, theatre)</td>
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<td>Approved elective or ROTC</td>
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<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>Ancient Greek elective</td>
<td>5</td>
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<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
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<tr>
<td>Approved literature courses</td>
<td>6</td>
</tr>
<tr>
<td>General education humanities course (other than English or foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>31-33</strong></td>
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</table>
JUNIOR YEAR

Approved Latin electives ........................................ 9
Approved history electives .................................... 6
General education social sciences
  courses (two fields other than history) .................... 6
Approved electives ............................................. 11

SEM. HRS.: 32

FRESHMAN YEAR

English 1001, 1002 ........................................... 6
Mathematics 1021 ............................................ 3
Russian 1001, 2051 ............................................ 10
General education biological or
  physical sciences (one science with
  2 sem. hrs. of lab) ......................................... 6-8
Approved history electives .................................. 3
Approved electives or ROTC ................................ 3

SEM. HRS.: 31-33

CURRICULUM IN RUSSIAN

TOTAL SEM. HRS.: 128

A minimum of 30 semester hours is required for a major in Russian. Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and general education, biological and physical sciences, mathematics, and social sciences requirements.

FRESHMAN YEAR

Russian 2053, 2055 ........................................... 6
General education biological or
  physical sciences (one science with
  2 sem. hrs. of lab) ......................................... 6-8
General education arts course
  (select from art, music, philosophy,
  theatre) .................................................... 3
Approved history elective .................................... 3
Approved literature courses .................................. 6
General education humanities course
  (other than English or foreign language) ............... 3
Approved electives or ROTC ................................ 4

SEM. HRS.: 31-33

SOPHOMORE YEAR

Approved Russian electives ................................ 9
General education analytical
  reasoning course ........................................... 3
General education social sciences
  courses (two fields other than history) .................... 6
Approved electives ........................................... 8

SEM. HRS.: 32

JUNIOR YEAR

Approved Russian electives ................................ 9
General education social sciences
  courses (two fields other than history) .................... 6
Approved electives ........................................... 8

SEM. HRS.: 31-33

CURRICULUM IN SPANISH

TOTAL SEM. HRS.: 128

Students majoring in Spanish must complete 30 semester hours numbered above 2053 including Spanish 2055, 2061, 2062, 3041, 3071, 3072, 3074, 4005, and six hours of 4000-level literature courses. Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

FRESHMAN YEAR

Spanish 2055 ................................................. 3
General education biological or
  physical sciences (one science with
  2 sem. hrs. of lab) ......................................... 6-8
General education arts course
  (select from art, music, philosophy,
  theatre) .................................................... 3
Approved humanities elective (other than
  English or foreign language) ............................ 3
Approved electives or ROTC ................................ 16

SEM. HRS.: 31-33

SOPHOMORE YEAR

English 1001, 1002 ........................................... 6
Mathematics 1021 ............................................ 3
General education biological or
  physical sciences (one science with
  2 sem. hrs. of lab) ......................................... 6-8
General education analytical
  reasoning course ........................................... 3
Approved history electives .................................. 6
Approved electives or ROTC ................................ 7

SEM. HRS.:
JUNIOR YEAR
Spanish 2061, 2062, 3041, 3071, 3072, 3074 ........................................ 18
General education social sciences courses (two fields other than history) ........ 6
Approved electives ................................................................. 8

TOTAL: .................................................................................. 32

SENIOR YEAR
Spanish 4005 ................................................................. 3
Approved Spanish electives ................................................. 3
Approved social sciences electives ........................................ 20

TOTAL: .................................................................................. 32

DEPARTMENT OF FRENCH AND ITALIAN

CHAIRMAN: Wing, Professor
OFFICE: 225 Prescott Hall
TELEPHONE: (504) 388-6627

LSU FOUNDATION HENRY J. VOORHIES PROFESSOR OF ENGLISH: Olney
LSU FOUNDATION DISTINGUISHED PROFESSOR OF FRENCH: Glissant

PROFESSORS: Erickson, Humphries, Lafayette, Leupin, Olney,
            Redfern, Wing

ASSOCIATE PROFESSORS: Brind’Amour, Chumbley, Russo, Zebouni

ASSISTANT PROFESSORS: Degas, Heilenman, Jensen, Wills

ADJUNCT FACULTY: Chambers

For a major in French, students must take a minimum of 31 semester hours in French courses numbered above 2000, including French 2051, 2053, 2055, 2057 (or 4015), 2060, 2071, 2072, 3058 (or 3001), 4005, and one 4000-level literature course. To supplement the major, the department recommends English 2020-2022 (in lieu of 2025-2027), Latin 2090, Greek 3032, and History 4021-4022. Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

CURRICULUM IN FRENCH

TOTAL SEM. HRS.: 128

For a major in French, students must take a minimum of 31 semester hours in French courses numbered above 2000, including French 2051, 2053, 2055, 2057 (or 4015), 2060, 2071, 2072, 3058 (or 3001), 4005, and one 4000-level literature course. To supplement the major, the department recommends English 2020-2022 (in lieu of 2025-2027), Latin 2090, Greek 3032, and History 4021-4022. Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>French 1001, 2051</td>
<td>10</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>Approved history electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL:</strong></td>
<td><strong>31-33</strong></td>
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SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>French 2053, 2055</td>
<td>6</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
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<tr>
<td>Approved history electives</td>
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<tr>
<td>Approved humanities elective (other than English or foreign language)</td>
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<td>Approved electives or ROTC</td>
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JUNIOR YEAR

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<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>French 2057 or 4015; 2060, 2071, 2072</td>
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<td>6</td>
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<tr>
<td>Approved electives</td>
<td>15</td>
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<td><strong>TOTAL:</strong></td>
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SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>French 3058 (or 3001), 4005, one 4000-level literature course</td>
<td>9</td>
</tr>
<tr>
<td>Approved social sciences electives</td>
<td>3</td>
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<tr>
<td>Approved electives</td>
<td>20</td>
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<td><strong>TOTAL:</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>
CURRICULUM IN ITALIAN
TOTAL SEM. HRS.: 128

A minimum of 30 semester hours is required for a major in Italian. The department recommends that students select English 2020, 2022 (in lieu of 2025, 2027), Greek 3032, and Communication Disorders 4150. Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

FRESHMAN YEAR SEM. HRS.
English 1001, 1002 ........................................ 6
Italian 1001, 2051 ....................................... 10
Mathematics 1021 ........................................ 3
General education biological or physical sciences (one science with 2 sem. hrs. of lab) ..................................... 6-8
Approved history elective ................................ 3
Approved elective or ROTC .................................. 3

31-33

SOPHOMORE YEAR SEM. HRS.
Italian 2053, 2055 ........................................ 6
General education biological or physical sciences (one science with 2 sem. hrs. of lab) ......................... 6-8
General education analytical reasoning course .................. 3
General education humanities course (other than English or foreign language) ................................ 3
Approved history elective .................................. 3
Approved literature courses .................................. 6
Approved electives or ROTC .................................. 4

31-33

JUNIOR YEAR SEM. HRS.
Approved Italian electives .................................. 9
General education arts course (select from art, music, philosophy, theatre) .................................... 3
General education social sciences courses (two fields other than history) ..................................... 6
Approved electives ......................................... 14

32

SENIOR YEAR SEM. HRS.
Approved Italian electives .................................. 6
Approved social sciences electives .................................. 3
Approved electives .......................................... 23

32

DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY

CHAIRMAN: Earle, Professor

BOYD PROFESSORS EMERITI: Kniffen, Walker, West
ALUMNI PROFESSORS: Haag (Emeritus), Hilliard
PROFESSORS: Earle, Chardon, Kesel, Muller, Richardson
ASSOCIATE PROFESSORS: Allan, Brody, Davidson, Edwards, Lam, Lewis, Owsley
ASSISTANT PROFESSORS: Hirschboeck, Jackson, Larimore, Liu, Matthewson, Orser, Pitts, Tague, Wood

ADJUNCT FACULTY: Detro, Gates, Lyon, Neuman

Geography

Students majoring in geography may earn either the Bachelor of Arts or Bachelor of Science degree. Students interested in physical geography normally enter the Bachelor of Science program, and those interested in cultural geography enter the Bachelor of Arts program.

All requirements specified by the College of Arts and Sciences for these respective degrees must be fulfilled. Candidates for both the Bachelor of Arts and Bachelor of Science degrees with a major in geography must complete a core curriculum consisting of Geography 1001, 1003, 2050, 2051, and 2055. Candidates for the Bachelor of Arts degree must complete, in addition to the core curriculum, not less than 18 semester hours in geography and anthropology courses as outlined below. Candidates for the Bachelor of Science degree must complete, in addition to the core curriculum, not less than 18 semester hours in geography courses as outlined below.

Students may elect to modify the curriculum to fit specific needs, but this must be done in consultation with the departmental advisor. Special emphases are offered in cartography, geographic information systems, cultural and historical geography, Latin America, coastal and fluvial geomorphology, climatology and hydroclimatology, and biogeography.
Students majoring in geography must pay a field service fee of $20 per semester for undergraduate majors and $25 per semester for graduate majors. Students not majoring in geography or anthropology who schedule courses requiring field service will be assessed a pro rata part of the transportation costs, as determined by the department chairman.

Requirements for a minor in geography are one course selected from Geography 1001, 1003, 2062; Geography 2050 and 2051; one course selected from Geography 3039, 4020, 4041, 4043, and 4045; and two additional 4000-level geography courses.

Geography 4999 is an honors course. Geology 4031 may be taken for elective geography credit.

### CURRICULUM IN GEOGRAPHY (B.A. DEGREE)

**TOTAL SEM. HRS.: 128**

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>Foreign language (through course 2053)</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>10</td>
<td>Geography 2050, 2051, 2055</td>
<td>9</td>
</tr>
<tr>
<td>Geography 1001, 1003</td>
<td>6</td>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
<td>General education analytical reasoning course</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
<td>Approved literature courses</td>
<td>6</td>
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<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>31-33</td>
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</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geography 3039, 4020, 4040, 4041, 4043, 4045, 4047, 4049, (select three)</td>
<td>9</td>
<td>Anthropology 4051, Geography 4001, 4026, 4031, 4032, 4050, or 4052</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
<td>Geography 4012, 4060, 4073, 4077, 4086 (select two)</td>
<td>6</td>
</tr>
<tr>
<td>Approved history electives</td>
<td>6</td>
<td>General education humanities courses</td>
<td>6</td>
</tr>
<tr>
<td>General education humanities course (other than English or foreign language)</td>
<td>3</td>
<td>Approved social sciences courses (two fields other than history or geography)</td>
<td>9</td>
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<tr>
<td>Approved electives</td>
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<td>8</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

### CURRICULUM IN GEOGRAPHY (B.S. DEGREE)

**TOTAL SEM. HRS.: 128**

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>Foreign language (through course 2053)</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>10</td>
<td>Geography 2050, 2051, 2055</td>
<td>9</td>
</tr>
<tr>
<td>Geography 1001, 1003</td>
<td>6</td>
<td>Mathematics 1021</td>
<td>9</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3</td>
<td>Approved literature courses</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Approved electives or ROTC</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>31-33</td>
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</tbody>
</table>
JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geography 3039, 4020, 4040, 4041, 4043, 4045, 4047, 4049, (select three)</td>
<td>9</td>
</tr>
<tr>
<td>Mathematics 1022</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course (other than English or foreign language)</td>
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</tr>
<tr>
<td>Approved history electives</td>
<td>6</td>
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<tr>
<td>Approved electives</td>
<td>8</td>
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<tr>
<td><strong>Total</strong></td>
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SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geography 4013, 4014, 4017, 4018, 4021, 4022, 4028, 4029, 4070, 4082, 4083 (select three)</td>
<td>9</td>
</tr>
<tr>
<td>General education humanities courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved social sciences courses (two fields other than history or geography)</td>
<td>9</td>
</tr>
<tr>
<td>Approved electives</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

Anthropology

A Bachelor of Arts is offered in anthropology. Because it is a broad study of mankind, students majoring in anthropology are urged to take courses in the sciences, the social sciences, and the humanities. Departmental course requirements are few. Students must complete Anthropology 1001 and 1003 and at least three courses from the following: Anthropology 2015, 2051, 3060, 4040. Course 2055 in a foreign language must also be completed. A minimum of 24 semester hours in anthropology is required. Courses in archaeology, cultural anthropology, folklore, physical anthropology, and anthropological linguistics are available. Through consultation with their departmental advisor, students design a specific program to fit their needs.

Because anthropology is a field science, students participate in numerous field trips. To help defray expenses, a field service fee of $20 per semester is charged to undergraduate majors and $25 per semester for graduate majors. Non-majors participating in field trip courses will be assessed a fee on a pro rata basis.

Requirements for a minor in anthropology are Anthropology 1001, 1003, and nine hours to be taken from the following three groups, no more than six hours total from any one group: Group 1 (method and laboratory)—Anthropology 3078, 3401, 4090; Group 2 (area)—Anthropology 4003, 4004, 4015, 4016, 4017, 4023, 4025, 4051, 4053, 4475; and Group 3 (topical)—Anthropology 2015, 2051, 2423, 3060, 3909, 4010, 4031, 4040, 4060, 4064, 4081, 4082, 4085, 4440.

CURRICULUM IN ANTHROPOLOGY

TOTAL SEM. HRS.: 128

Students majoring in anthropology should request the pamphlet entitled "Undergraduate Program in Anthropology" from the departmental office or from their faculty advisor. Nine semester hours of approved anthropology electives in the sophomore and junior years must be chosen from Anthropology 2015, 2051, 3060, and 4040. Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Anthropology 1001, 1003</td>
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<tr>
<td>English 1001, 1002</td>
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<tr>
<td>Foreign language courses</td>
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<tr>
<td>Mathematics 1021</td>
<td>3</td>
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<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
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SOPHOMORE YEAR

<table>
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<tr>
<th>Course</th>
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<tr>
<td>Foreign language (through course 2055)</td>
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<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
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<tr>
<td>Approved history elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved literature courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>31-33</strong></td>
</tr>
</tbody>
</table>
DEPARTMENT OF HISTORY

CHAIRMAN: Roider, Professor
OFFICE: 224 Himes Hall
TELEPHONE: (504) 388-4471

T. HARRY WILLIAMS CHAIR OF AMERICAN HISTORY: Royster
ALUMNI PROFESSOR EMERITUS: Loos
ALUMNI PROFESSOR: Noggle
PROFESSORS: Cooper, Culbert, Hardy, Hilton, Loveland, Martin, Roider, Youngs
ASSOCIATE PROFESSORS: Becker, Carleton, Crump, Foster, Henderson, Hoffman, Lindenfeld, Lipscomb, Littlefield, Muir, Owen, Paskoff
ASSISTANT PROFESSORS: Bargeron, Robertson, Rogers

A minor in history requires a total of at least 18 hours, including any two-semester six-hour course sequence at the 1000 or 2000 level; three courses at the 3000 or 4000 level; and one additional three-hour course in history.

A special curriculum leading to the B.A. degree with departmental honors in history is also offered. Details are available from the departmental office.

The department offers programs of study leading to the M.A. and Ph.D. degrees. The Southern Biography Series and Source Studies in Southern History are edited by faculty members of the Department of History.

CURRICULUM IN HISTORY
TOTAL SEM. HRS.: 128-130

Students majoring in history must complete 33 semester hours, including History 1001, 1003, 2055, 2057, and at least 15 semester hours in history courses numbered 3000 or above. Of these 15 hours, students must take at least six semester hours in the following general subject areas: U.S. History, European History, and Third-World History (Latin America, East Asia, Africa, and the Middle East). Fundamental courses in economics, literature, foreign languages, geography, political science, psychology, and sociology are also recommended. Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

FRESHMAN YEAR SEM. HRS.
English 1001, 1002 ........................................ 6
Foreign language courses .................................. 10
History 1001, 1003 ........................................ 6
Mathematics 1021 .......................................... 3
General education biological or physical sciences (one science with 2 sem. hrs. of lab) ........................................ 6-8
31-33

SOPHOMORE YEAR SEM. HRS.
Foreign language (through course 2053) .................. 3
History 2055, 2057 ......................................... 6
General education analytical reasoning course .......... 3
General education biological or physical sciences (one science with 2 sem. hrs. of lab) .................................... 6-8
General education humanities course (other than English or foreign language) ......................... 3
Approved literature courses .................................. 6
Approved electives or ROTC .................................. 4
31-33
**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Approved history electives</td>
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<tr>
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**SENIOR YEAR**

<table>
<thead>
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<tbody>
<tr>
<td>Approved history electives</td>
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</tr>
<tr>
<td>Approved social sciences electives</td>
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<tr>
<td>Approved electives</td>
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</table>

**MANSHIP SCHOOL OF JOURNALISM**

**ACTING DIRECTOR:** Giles, *Manship Professor*

**MANSHIP CHAIR OF JOURNALISM:** Giles  
**PROFESSORS:** Fletcher, Merrill, Pennybacker  
**ASSOCIATE PROFESSORS:** Butler (*Associate Director*), Day, Featherston, Garay, Hebert, McMullen, Mundt, Windhauser  
**ASSISTANT PROFESSORS:** Carter, d’Hemecourt, Mofield, Perkins

Admission to any curricula in the Manship School of Journalism requires that a student be admissible to the College of Arts and Sciences and have completed at least 60 semester hours with a grade-point average of 2.50 or above. Application to the program is made by submitting a transcript supplied by the College of Arts and Sciences and a letter of certification to the Manship School of Journalism, 222 Journalism Building. Transfer students must meet all criteria stated above.

To continue in a journalism curriculum, a student must maintain a 2.50 grade-point average or above and complete all required journalism courses in sequence. However, unless all prerequisites are satisfied and registration for courses occurs in an orderly manner, enrollment in any given course is not assured. Further, no specified length of time is stated for the completion of any curriculum.

The appearance of a journalism curriculum code on any University document does not constitute admission to the Manship School of Journalism.

The Manship School of Journalism offers a selected group of courses to non-majors. They are as follows:  
JOUR 1700, 2090, 2091, 2095, 2151, 3000, 3001, 3002, 3030, 3700, 3710, 4001, 4004, 4005, 4010, 4034, 4082, 4085, 4103, 4710, 4720, and 4971.

Three professional curricula are offered by the Manship School of Journalism: advertising, broadcast journalism, and news-editorial. All are fully accredited by the Accrediting Council on Education in Journalism and Mass Communications. In addition, journalism is available as an option for the Bachelor of Arts in Liberal Arts degree.

Journalism students are expected to be proficient in the use of English (see "Degree Requirements of the College"). Proficiency in typewriting is also required. This proficiency should be acquired before students enroll in their first reporting course. All written assignments must be typewritten. Students must provide typewriters for all of their assignments except those written in scheduled laboratories.

The professional degree of Bachelor of Arts in Journalism is conferred on students who complete the advertising, broadcast journalism, or news-editorial curricula. The Bachelor of Arts in Liberal Arts degree is conferred on students who complete the journalism option in liberal arts.

Journalism students must earn at least a "C" in each required journalism course.

All journalism students must complete a minor in one department other than journalism. The minor will be defined by the minor department. In departments that have not defined a minor, one will consist of 18 hours beyond any courses required in the journalism curriculum, at least six of which must be numbered 3000 or above.

The news-editorial curriculum develops skills in investigating, interpreting, and communicating factual information to readers of print media. Graduates of this curriculum typically become newspaper reporters and editors, public relations practitioners, or magazine writers and editors.

The advertising curriculum develops skills in marketing, research, media, creative planning and execution. Graduates typically become involved in account management, media analysis and research, copywriting, and advertising design.

The broadcast journalism curriculum develops skills in investigating, interpreting, and communicating factual information to audiences of electronic media. Graduates typically become reporters, editors, producers, or news managers of broadcast news.

Journalism students gain considerable practical experience to supplement classroom instruction. In some courses, students work on news and advertising assignments for *The Daily Reveille* and for the campus radio station, KLSU. Students in advanced reporting courses acquire experience with the Baton Rouge *Morning Advocate* and with other local media.
An honors program is available. Requirements can be obtained from the Division of Honors and Interdisciplinary Studies, 120 Old Alumni House

A minor in journalism requires 18 hours of journalism, at least six of which must be numbered 3000 or above.

**CURRICULUM IN ADVERTISING**

**TOTAL SEM. HRS.: 128**

Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>10</td>
</tr>
<tr>
<td>History 1001, 1003 or Geography</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>General education sciences courses</td>
<td></td>
</tr>
<tr>
<td>(year course in biological or physical sciences)</td>
<td>6</td>
</tr>
<tr>
<td>Books &amp; Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>132</td>
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</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Economics 2010, 2020, or 2030</td>
<td>3-6</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
<td></td>
</tr>
<tr>
<td>General education biological or physical sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language (through course 2053)</td>
<td>3</td>
</tr>
<tr>
<td>History 2055, 2057</td>
<td>6</td>
</tr>
<tr>
<td>Journalism 2095, 2151</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3-6</td>
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<td>30</td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journalism 4034, 4036, 4082, 4092</td>
<td>12</td>
</tr>
<tr>
<td>Approved journalism course</td>
<td>3</td>
</tr>
<tr>
<td>Approved humanities course (other than English, foreign language, journalism)</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>Approved social sciences courses</td>
<td>12</td>
</tr>
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<td></td>
<td>33</td>
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</table>

**CURRICULUM IN BROADCAST JOURNALISM**

**TOTAL SEM. HRS.: 128**

Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>10</td>
</tr>
<tr>
<td>History 1001, 1003 or Geography</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>General education sciences courses</td>
<td></td>
</tr>
<tr>
<td>(year course in biological or physical sciences)</td>
<td>6</td>
</tr>
<tr>
<td>Books &amp; Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>32</td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Accounting 2000 or 2001</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language (through course 2053)</td>
<td>3</td>
</tr>
<tr>
<td>History 2055, 2057</td>
<td>6</td>
</tr>
<tr>
<td>Journalism 2151, 2705</td>
<td>6</td>
</tr>
<tr>
<td>Economics 2010, 2020, or 2030</td>
<td>3-6</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
<td></td>
</tr>
<tr>
<td>General education biological or physical sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3-6</td>
</tr>
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<td></td>
<td>33</td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
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<tbody>
<tr>
<td>Journalism 3740, 3750, 4092</td>
<td>9</td>
</tr>
<tr>
<td>Approved journalism electives</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>Approved social sciences electives</td>
<td>12</td>
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<td></td>
<td>30</td>
</tr>
</tbody>
</table>
CURRICULUM IN NEWS-EDITORIAL  
TOTAL SEM. HRS.: 128

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

FRESHMAN YEAR  SEM. HRS.
English 1001, 1002 ........................................ 6
Foreign language courses ................................... 10
History 1001, 1003 or Geography 1001, 1003 .................... 6
Mathematics 1021 ........................................ 3
General education sciences courses  
(year course in biological or physical sciences) ................. 6
Books & Libraries 1001 ................................... 1

32

JUNIOR YEAR  SEM. HRS.
Journalism 3150, 3151, 4082 .................................. 9
Approved journalism electives ................................ 6
Approved humanities course ................................ 3
General education arts course  
(select from art, music, philosophy, theatre) ...................... 3
Approved literature courses ................................ 6
Approved social sciences electives .................. 6

33

SOPHOMORE YEAR  SEM. HRS.
Foreign language (through course 2053) .................. 3
History 2055, 2057 ........................................ 6
Economics 2010, 2020, or 2030 ......................... 3-6
General education analytical reasoning course ........... 3
General education biological or physical sciences course ........ 3
Journalism 2151, 2152 ........................................ 6
General education humanities course (other than English, foreign language, journalism) ........ 3
Approved electives or ROTC .................................. 3-6

33

SENIOR YEAR  SEM. HRS.
Journalism 4092 ........................................ 3
Journalism 3002 or 4081 or 4141 ......................... 3
Approved journalism electives .................... 6
Approved social sciences courses .............. 12
Approved electives .................................. 6

30

LIBERAL ARTS

The Bachelor of Arts in Liberal Arts enables the College of Arts and Sciences to offer students an opportunity to pursue interdepartmental and intercollegiate areas of concentration. The program is designed to give students the opportunity to become broadly educated in the liberal arts, while satisfying the requirements for specialized areas of concentration. Information concerning curricular requirements may be obtained from the dean's office.

CURRICULUM IN LIBERAL ARTS  
TOTAL SEM. HRS.: 130

FRESHMAN YEAR  SEM. HRS.
English 1001, 1002 ........................................ 6
Foreign language courses ................................... 10
Mathematics 1021 ........................................ 3
Area of concentration courses ................................ 6
General education biological or physical sciences (one science with 2 sem. hrs. of lab) ...................... 6-8

31-33

JUNIOR YEAR  SEM. HRS.
Approved history electives .................................. 6
Area of concentration courses ............................ 12
General education social sciences courses (two fields other than history) .................. 6
Approved electives .................................. 8

32

SOPHOMORE YEAR  SEM. HRS.
Foreign language (through course 2055) .................. 6
General education analytical reasoning course .......... 3
General education biological or physical sciences (one science with 2 sem. hrs. of lab) ...................... 6-8
Approved literature courses ................................ 6
Area of concentration courses ............................ 6
Approved electives or ROTC ........................... 4

31-33

SENIOR YEAR  SEM. HRS.
Area of concentration courses ............................ 13
General education arts course  
(select from art, music, theatre, philosophy) ............ 3
Approved social sciences elective ....................... 3
General education humanities course .................. 3
Approved electives .................................. 10

32
LINGUISTICS (INTERDEPARTMENTAL PROGRAM)

DIRECTOR: Buckingham, Professor

OFFICE: 136B Coates Hall
TELEPHONE: (504) 388-6682

An undergraduate minor in linguistics is available. Required courses include Communication Disorders 2050 or English 4010, English 2010 or 4012, Communication Disorders 4150, and nine semester hours of electives. Electives may be chosen from one or several of the following areas; however, students are encouraged to choose from at least two different areas. (1) The History of Language—English 4011, French 4001, German 4001, Russian 4002, Spanish 4005; (2) Communication Theory—Speech Communication 4114, Communication Disorders 4153, 4250, 4380; (3) Language and Culture—Anthropology 3060, 4060, 4064, 4081, 4082; and (4) Philosophy and Linguistics—Philosophy 2010, 4010, 4914, 4951; and (5) English Linguistics—English 3012, 3014, 4018.

Information concerning the Master of Arts and Ph.D. degrees with majors in linguistics can be found in the Graduate School Catalog.

DEPARTMENT OF MATHEMATICS

CHAIRMAN: Reid, Professor

NICHOLSON PROFESSOR OF MATHEMATICS: Conner

ALUMNI PROFESSOR: Butts

PROFESSORS: Bollobás, Collins, Cordes, Curtis, Dorroh, Hildebrant, Keisler (Vice-Chairman for Instruction), Koch, Kuo, Lawson, Lax, McGehee, Nobile, Perlis, Reid, Retherford, Richardson, Stoltzfus, Weintraub

ASSOCIATE PROFESSORS: Adkins (Vice-Chairman and Director of Graduate Studies), Casler, Cygan, Delzell, Fabec, Gilmer, Hoffman, Hurrelbrink, Litherland, Oxley, Weis

ASSISTANT PROFESSORS: Cheng, Davidson, Ferreyra, Fox, Lacey, Morales, Ohring, Rieder, Russe, R. Schilling, Schnyder, Smolinsky, Sundar

INSTRUCTORS: Britt, Christie, Dennis, Forrest, Koehl, D. Schilling, Sherrell, Suh, Uvah, White, Winslow

Students majoring in mathematics may choose either a mathematics or a computer science emphasis. A minimum of 31 semester hours in mathematics courses including Mathematics 1550 (or 1551), 1552 (or 1553), 2057 (or 2058), and 2085 (or 2086) plus courses as specified below to fulfill the chosen emphasis are required. Students selecting the computer science emphasis must have a minimum grade-point average of 2.00 in all mathematics and computer science courses, as well as in all mathematics courses, to be eligible for the bachelor's degree. Degree credit for mathematics courses numbered below 1550 will not be allowed for mathematics majors. All students majoring in mathematics are advised to include some computer science courses in their electives. Those students planning to do graduate work in mathematics are advised to include those mathematics courses specifically required for the mathematics emphasis.

The requirements for a minor in mathematics are as follows: Mathematics 1550 (or 1551), 1552 (or 1553), 2057 (or 2058), and 2085 (or 2086) plus three 4000-level courses not including Mathematics 4005.

Honors courses offered in mathematics are Mathematics 1551, 1553, 2058, and 2086. A special curriculum leading to the B.S. degree with departmental honors in mathematics is offered. Details are available from the departmental office.

CURRICULUM IN MATHEMATICS (MATHEMATICS EMPHASIS)

TOTAL SEM. HRS.: 128

Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>10</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
</tr>
<tr>
<td>General education biological or</td>
<td></td>
</tr>
<tr>
<td>physical sciences (one science</td>
<td>6-8</td>
</tr>
<tr>
<td>with 2 sem. hrs. of lab)</td>
<td>32-34</td>
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SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Foreign language (through course</td>
<td>3</td>
</tr>
<tr>
<td>2053)</td>
<td></td>
</tr>
<tr>
<td>Mathematics 2057, 2085</td>
<td>6</td>
</tr>
<tr>
<td>General education biological or</td>
<td></td>
</tr>
<tr>
<td>physical sciences (one science</td>
<td></td>
</tr>
<tr>
<td>with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>Approved history electives</td>
<td>6</td>
</tr>
<tr>
<td>Approved literature courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>4</td>
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</table>

31-33
CURRICULUM IN MATHEMATICS (COMPUTER SCIENCE EMPHASIS)

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Mathematics 4022, 4031, 4032</td>
<td>9</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
</tr>
<tr>
<td>General education humanities courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
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<td>Total</td>
<td>31</td>
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SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 4027, 4036, 4039, 4055, 4065, 4153, 4171, 4172, 4181, 4345, 4999 (select two)</td>
<td>6</td>
</tr>
<tr>
<td>Approved humanities course (other than English or foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>Approved social sciences elective (other than history)</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>20</td>
</tr>
<tr>
<td>Total</td>
<td>32</td>
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JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 2065 or 4027</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 4023, 4055</td>
<td>6</td>
</tr>
<tr>
<td>Computer Science 2252</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science 2262 or 2263</td>
<td>3</td>
</tr>
<tr>
<td>Approved history electives</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities courses</td>
<td>6</td>
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<tr>
<td>Approved elective or ROTC</td>
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<tr>
<td>Total</td>
<td>31</td>
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SENIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 4024, 4025, 4056, 4065, 4066, 4171, 4172, 4340, 4470 (select two)</td>
<td>6</td>
</tr>
<tr>
<td>Computer science electives selected from 2280 and courses numbered above 3000</td>
<td>6</td>
</tr>
<tr>
<td>General education humanities course (other than English or foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences courses (two fields other than history)</td>
<td>6</td>
</tr>
<tr>
<td>Approved social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>8</td>
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<tr>
<td>Total</td>
<td>32</td>
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</tbody>
</table>

DEPARTMENT OF MILITARY SCIENCE

HEAD: Horacek, Professor

OFFICE: 106 Military Science/Aerospace Studies Building

TELEPHONE: (504) 388-2371

PROFESSOR: Horacek

ASSISTANT PROFESSORS: Blakeney, Cheuvront, Clay, David, Mantooth, Spencer

INSTRUCTORS: Jordan, Sanders

For information on this department's program, see the "Reserve Officers Training Corps" section of this catalog.

DEPARTMENT OF PHILOSOPHY

CHAIRMAN: Henderson, Associate Professor

OFFICE: 106 Coates Hall

TELEPHONE: (504) 388-2220

PROFESSORS: Bigger, Harned, Shirley, Sirridge

ASSOCIATE PROFESSORS: Baker, Henderson, Sarkar, Schufreider, Segal, Whittaker
Philosophy

Philosophy, a basic part of a university education, examines concepts, methods, and values related to all forms of human enterprise and experience. It provides a comprehensive understanding to help establish perspective and put the many sides of life together. The study of philosophy also aids in developing rational analysis, thought, and expression. The Department of Philosophy offers a wide range of courses dealing with the basic philosophical themes and questions and with the great minds of the ages. An undergraduate major or minor in philosophy provides background for further study in law, journalism, computer science, history, linguistics, literature, medicine, the business disciplines, and other fields.

Some philosophy courses deal with problems and issues which arise in other fields of study and in the practice of certain professions and vocations. Such courses include professional ethics, bioethics, philosophy of art, philosophy of science, and philosophy and film. Logic is especially recommended for students in business, journalism, and prelaw. The ethics courses are especially recommended for students in business, education, engineering, journalism, prelaw, premedicine, nursing, and other health related fields. See course descriptions for details.

A minor in philosophy requires 15 hours of philosophy, at least six of which must be at the 3000/4000 level. Several honors tutorials and seminars are offered for qualified students (Philosophy 2034, 2036, 2952, 2953, 2963, 2964, 2965, 3901, and 3902), and a special curriculum leading to the B.A. degree with departmental honors in philosophy is offered. Details are available from the departmental office.

CURRICULUM IN PHILOSOPHY

TOTAL SEM. HRS.: 128

Students majoring in philosophy are required to take Philosophy 2010 or 4010; 2018 or 2020 or 2025; 2033; and 2035, along with electives to make a total of 27 hours. At least 12 of the 27 hours of philosophy must be in courses numbered at the 3000 and/or 4000 level. Degree credit will not be allowed for more than six hours of courses numbered below 2000. Consult “Degree Requirements of the College” in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>English 1001, 1002 ...........................................</td>
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<tr>
<td>Foreign language courses ..................................</td>
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<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab) ..........</td>
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<tr>
<td>Mathematics 1021 ...........................................</td>
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<tr>
<td>Approved philosophy electives (1000 or 2000 level) ....</td>
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SOPHOMORE YEAR

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<tbody>
<tr>
<td>Foreign language (through course 2055) ...................</td>
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<tr>
<td>Philosophy 2010 ..............................................</td>
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<tr>
<td>Philosophy 2018 or 2020 or 2025 ...........................</td>
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<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab) ......</td>
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<tr>
<td>Approved literature courses ..................................</td>
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<tr>
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JUNIOR YEAR

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<tbody>
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<td>Approved history electives ....................................</td>
</tr>
<tr>
<td>Approved philosophy electives ..............................</td>
</tr>
<tr>
<td>General education social sciences courses (two fields other than history) .......................</td>
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<tr>
<td>Approved electives ............................................</td>
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SENIOR YEAR

<table>
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<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Approved philosophy electives ..............................</td>
</tr>
<tr>
<td>Approved social sciences electives ........................</td>
</tr>
<tr>
<td>Approved electives ............................................</td>
</tr>
<tr>
<td><strong>TOTAL</strong> ................................................................</td>
</tr>
</tbody>
</table>

Religious Studies

The Department of Philosophy has a program for the academic study of religions, including a major and a minor in religious studies, for those who want to study religious thought, experience, institutions, and texts systematically and extensively. Because of their general nature, such courses make excellent electives. Other
departments also offer courses related to religious studies, as indicated in the description of the minor. For further information, contact the department.

A minor in religious studies consists of (1) 12 semester hours of religious studies courses including at least three hours in western religions and at least three hours in eastern religions and (2) at least six semester hours of approved electives selected from Anthropology 4031; Art 4405, 4406, 4412; English 3124, 3236; Greek 2053 or above; Hebrew 4001 or above; History 4011, 4113, 4161; Latin 2053 or above; Music 4755, 4756; Philosophy 4954; Political Science 4033; and Sociology 4441. The total 18 semester hours must include at least six hours taken at the 3000 level or above.

## CURRICULUM IN RELIGIOUS STUDIES

**TOTAL SEM. HRS.: 128**

Students majoring in religious studies must complete a minimum of 24 sem. hrs. of religious studies (REL) courses and 6 sem. hrs. of approved electives. At least 12 of the 24 hours of religious studies must be in courses numbered 3000 and above. The 24 hours must include a minimum of 3 sem. hrs. each in Christianity, Judaism, Western religions, and non-Western religions. A list of approved electives is available from the department. Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>10</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>Religious Studies 1003, 1004, or 1005 (recommended)</td>
<td>6</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tr>
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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Foreign language (through course 2055)</td>
<td>6</td>
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<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
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<tr>
<td>General education analytical reasoning course</td>
<td>3</td>
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<tr>
<td>Approved social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Approved religious studies courses and/or electives</td>
<td>6</td>
</tr>
<tr>
<td>Approved literature courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved elective or ROTC</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>31-33</strong></td>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved religious studies courses and/or electives</td>
<td>9</td>
</tr>
<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences courses (two fields other than history)</td>
<td>6</td>
</tr>
<tr>
<td>Approved history courses</td>
<td>6</td>
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<tr>
<td>Approved electives</td>
<td>8</td>
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<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
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<tbody>
<tr>
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<td>Approved electives</td>
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<tr>
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</tr>
</tbody>
</table>

## DEPARTMENT OF POLITICAL SCIENCE

**CHAIRMAN:** Zwick, Associate Professor  
**OFFICE:** 240 Stubbs Hall  
**TELEPHONE:** (504) 388-2141

**PROFESSORS:** Arango, Bolner, Crabb, Sandoz, Weber, Wittkopf  
**ASSOCIATE PROFESSORS:** Cárdenas, Eubanks, Falkowski, Mulcahy, Parent, Rice, Zwick  
**ASSISTANT PROFESSORS:** Garand, Gasiorowski, Gilkison, Grosser, Harris, Robinson

The requirements for a minor in political science are Political Science 2051 and 15 additional hours in political science; six of the 18 hours in political science must be at the 3000 level or above.  
Honors work is provided through Political Science 2052, 3000, 3896, and 3897. A special curriculum leading to the B.A. with departmental honors in political science is offered. Details are available from the departmental office.
### CURRICULUM IN POLITICAL SCIENCE

**TOTAL SEM. HRS.: 128**

Students majoring in political science must complete a minimum of 33 semester hours in political science courses, of which a minimum of 18 hours must be in courses numbered 3000 and above. Political science courses are divided into four fields: (1) American government and politics; (2) comparative government and politics; (3) international politics and law; and (4) political theory. Political science course work must be distributed among these fields as follows: 12 hours in one field; 6 hours in each of two additional fields; and 9 hours (or more) of electives distributed in any fields. A list of political science courses grouped by fields is available from the departmental office. Political Science 1001, 2001, 3060, 3901, 3909, and 4100 may not be counted toward fulfilling field distribution requirements, but may be counted as political science electives. Although some courses are cross-listed in more than one field, no course can be accepted for credit in more than one field. Political Science 2051 is required for all undergraduate majors. Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

Students interested in careers in law and government should consult with the department undergraduate or prelaw advisor.

Further details about the department's offerings and requirements are available from the departmental office.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>Foreign language courses</td>
<td>10</td>
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<tr>
<td>Mathematics 1021</td>
<td>3</td>
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<tr>
<td>Political Science 1001 (recommended), 2051</td>
<td>6</td>
</tr>
<tr>
<td>General education biological or</td>
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</tr>
<tr>
<td>physical sciences (one science with</td>
<td></td>
</tr>
<tr>
<td>2 sem. hrs. of lab)</td>
<td></td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>31-33</strong></td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Approved political science electives</td>
<td>9</td>
</tr>
<tr>
<td>Approved humanities course</td>
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<td>(other than English or foreign language)</td>
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<td>Approved history course</td>
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<tr>
<td>General education social sciences course</td>
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<tr>
<td>Approved social sciences courses (two fields other than history or political science)</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>8</td>
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<tr>
<td><strong>TOTAL</strong></td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Foreign language (through course 2053)</td>
<td>3</td>
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<tr>
<td>General education biological or</td>
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</tr>
<tr>
<td>physical sciences (one science with</td>
<td></td>
</tr>
<tr>
<td>2 sem. hrs. of lab)</td>
<td></td>
</tr>
<tr>
<td>General education analytical reasoning</td>
<td>3</td>
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<tr>
<td>course</td>
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<tr>
<td>Approved history elective</td>
<td>3</td>
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<tr>
<td>Approved political science electives</td>
<td>6</td>
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<tr>
<td>Approved literature courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>31-33</strong></td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
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<td>Approved electives</td>
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<tr>
<td><strong>TOTAL</strong></td>
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</table>

### DEPARTMENT OF PSYCHOLOGY

**CHAIRMAN:** Geer, Professor

**BOYD PROFESSOR:** Riopelle

**PROFESSORS:** Geer, Gottfried, Gresham, Hoffeld, Lane, Magill, Matson, Seay, Thomas, Tuma, Waters, Williamson

**ASSOCIATE PROFESSORS:** Blouin, Brantley, Coon, Elliott, Hall, Hawkins, Kelley, Mathews, Pereboom, Prestholdt, Witt

**ASSISTANT PROFESSORS:** Baumeister, Blanchard-Fields, Gouvier, Junginger, Kessler, McDonald, Steiner

**ADJUNCT FACULTY:** Jensén, Rosenkrantz

Students majoring in psychology must take Psychology 2000, 2011, 2017, 3018 or 3020, and 4008; and 15 or more additional hours (at least nine of which must be numbered 3000 or above) as follows: **Group 1 (minimum of six hrs. required):** Psychology 2004, 2040, 3050, 3081, 3082, 3083, 3140, 4050, 4070, 4072; **Group 2 (minimum of six hrs. required):** Psychology 3018 or 3020 (if not taken above), 3033, 4030, 4031, 4032, 4033.
4034, 4036, 4038, 4040, 4111; **Group 3** (no hours required; maximum of six hrs. permitted): Psychology 2060, 2076, 2078, 3201, 4160, 4176, 4178.

A student must complete the following 15 hours to graduate with a **minor in psychology**: Psychology 2000—three hours; two courses from Group 1—six hours; two courses from Group 2—six hours (all courses in Group 2 are 3000 or above).

## CURRICULUM IN PSYCHOLOGY (B.A. DEGREE)

**TOTAL SEM. HRS.: 128**

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, electives and biological and physical sciences, literature, mathematics, and social sciences requirements.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>Foreign language courses</td>
<td>10</td>
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<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 2000</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>Approved elective or ROTC</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>31-33</strong></td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foreign language (through course 2053)</td>
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<tr>
<td>Psychology 2011</td>
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<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
<td>3</td>
</tr>
<tr>
<td>Approved history elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved psychology elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved literature courses</td>
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<tr>
<td>Approved electives or ROTC</td>
<td>4</td>
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<td><strong>TOTAL</strong></td>
<td><strong>31-33</strong></td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Psychology 2017, 4008</td>
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<td>Approved history course</td>
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</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>(select from art, music, philosophy, theatre)</td>
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</tr>
<tr>
<td>Approved humanities course</td>
<td>3</td>
</tr>
<tr>
<td>(other than English or foreign language)</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>8</td>
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<tr>
<td><strong>TOTAL</strong></td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Psychology 3018 or 3020</td>
<td>3</td>
</tr>
<tr>
<td>Approved psychology electives</td>
<td>6</td>
</tr>
<tr>
<td>Approved social sciences courses</td>
<td>6</td>
</tr>
<tr>
<td>(three hrs. other than history or psychology)</td>
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</tr>
<tr>
<td>General education humanities courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>8</td>
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<tr>
<td><strong>TOTAL</strong></td>
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</table>

## CURRICULUM IN PSYCHOLOGY (B.S. DEGREE)

**TOTAL SEM. HRS.: 128**

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>Foreign language courses</td>
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</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>Approved elective or ROTC</td>
<td>3</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>31-33</strong></td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
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<tr>
<td>Psychology 2000</td>
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<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
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<tr>
<td>Approved history electives</td>
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<td>Approved psychology elective</td>
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<tr>
<td>Approved electives or ROTC</td>
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JUNIOR YEAR

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Psychology 2011, 2017, 4008</td>
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<tr>
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<tr>
<td>General education social sciences course</td>
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<tr>
<td>General education arts course</td>
<td></td>
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<tr>
<td>(select from art, music, philosophy, theatre)</td>
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</tr>
<tr>
<td>Approved humanities course (other than English or foreign language)</td>
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<tr>
<td>Approved social sciences courses (two fields other than history or psychology)</td>
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</tr>
<tr>
<td>Approved electives</td>
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SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology 3018 or 3020</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities courses</td>
<td>6</td>
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<td>Approved psychology electives</td>
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<td>Approved electives</td>
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<td>32</td>
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RUSSIAN AREA STUDIES (INTERDEPARTMENTAL PROGRAM)

OFFICE: 222 Prescott Hall
PROFESSORS: Roeder, Hart
ASSOCIATE PROFESSORS: Owen, Zwick
ASSISTANT PROFESSORS: Tuman, Stanton

A minor in Russian area studies consists of at least 18 hours in the courses listed in the Russian area studies curriculum, including at least one course each in Russian, political science, history, and economics. Only one course in the student's major field may be counted toward the minor in Russian area studies. Six hours must be at the 3000 and/or 4000 level.

CURRICULUM IN RUSSIAN AREA STUDIES

TOTAL SEM. HRS.: 128

Students planning to enter graduate school in a subject other than Russian area studies (e.g., economics, political science, history, Russian language and literature) are advised to complete 24 to 33 hours in that subject. Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
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<tr>
<td>Mathematics 1021</td>
<td>3</td>
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<tr>
<td>Russian 1001, 2051</td>
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<td>General education analytical reasoning course</td>
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<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
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<td>31-33</td>
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SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Economics 2010, 2020; or 2030</td>
<td>3-6</td>
</tr>
<tr>
<td>English 2020, 2022, or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Russian 2053, 2055</td>
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<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
</tr>
<tr>
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<tr>
<td></td>
<td>31-33</td>
</tr>
</tbody>
</table>

JUNIOR YEAR AND SENIOR YEAR

Completion of 30 sem. hrs. from the following four subjects. A minimum of 15 hrs. must be taken in one subject, at least six hrs. in two others, and at least three hrs. in the fourth. The general education social sciences requirement must also be fulfilled in this 30 hrs.

Economics 4015, 4020, 4025 (note prerequisites)
History 2135/Russian 2075, 4029, 4030, 4031, 4032, 4033, 4034, 4035, 4036
Political Science 4070, 4071, 4072, 4073

1Department of Foreign Languages and Literatures.
2Department of History.
3Department of Political Science.
Russian 2061, 2062, 2071, 2072, 2075, 3401, 4002, 4030, 4031, 4032, 4033, 4061, 4081, 4082, 4915 .......................................................... 30
Approved electives ........................................................................ 34

DEPARTMENT OF SOCIOLOGY

CHAIRMAN: Villemez, Professor

PROFESSORS: Acock, Howard, Jenkins, Jones, Purtle, Villemez
ASSOCIATE PROFESSORS: Bankston, Deseran, Durant, Grimes, Ohlendorf, Shrum, Singelmann, Stearns, Weil
ASSISTANT PROFESSORS: Hurlbert, Irwin, Manley

Functions of the department are to conduct teaching and research in the College of Arts and Sciences and the Graduate School, to provide undergraduate degree programs in sociology and rural sociology, and to conduct research in rural sociology for the Louisiana Agricultural Experiment Station. The department is research-oriented and committed to the further development of sociology as a science as well as to the application of sociological principles in societal programs. With respect to its teaching responsibilities, the department contributes to preprofessional preparation of undergraduates in the Colleges of Arts and Sciences and Agriculture and develops professional sociologists at the graduate level.

In order to graduate with a minor in sociology, students are required to complete Sociology 2001 and at least 12 additional hours in sociology, six semester hours of which must be in courses at the 3000 level or above.

A special program leading to the B.A. degree with departmental honors in sociology is also offered. Detailed information is available from the departmental office.

The Bachelor of Science degree with a major in rural sociology is offered through the College of Agriculture. Curricular requirements for this degree are shown in the "College of Agriculture" section of this catalog.

CURRICULUM IN SOCIOLOGY

TOTAL SEM. HRS.: 128

A grade of "C" or higher must be earned in Sociology 2001, 2201, 2211, and 3101. At least one course at the 3000 level or above must be selected from each of the five major content areas: social organization, social institutions, social issues, social interaction, and population and ecology. Sociology majors are strongly advised to schedule all College of Arts and Sciences and departmental lower-level requirements in their first two years. Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements. A certain course may satisfy general education, college, and/or departmental requirements.

FRESHMAN YEAR SEM. HRS.
English 1001, 1002 .................................................. 6
Foreign language courses ........................................... 10
Mathematics 1021 .................................................... 3
Sociology 2001 .......................................................... 3
General education analytical reasoning course .............. 3
General education biological or physical sciences (one science with 2 sem. hrs. of lab) ............................................... 6-8
Approved electives or ROTC ...................................... 2

SOPHOMORE YEAR SEM. HRS.
Foreign language (through course 2053) ....................... 3
Sociology 2201, 2211 .................................................. 7
General education biological or physical sciences (one science with 2 sem. hrs. of lab) ............................................... 6-8
Approved history electives ........................................ 6
Approved literature courses ........................................ 6
Approved electives or ROTC ...................................... 5

33-35
JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Sociology 3101.</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 3501, 3505, 4501, 4511, 4521, 4531 or 4551 (select one)</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 3601, 3605, 4601, 4611, or 4621 (select one)</td>
<td>3</td>
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</tbody>
</table>

General education arts course (select from art, music, philosophy, theatre) ........................................... 3
Approved humanities electives (other than English or foreign language) ...................................................... 3
General education social sciences course ........................................................................................................... 3
Approved social sciences elective (other than history or sociology) ............................................................. 3
Approved electives .................................................................................................................................................. 9

SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Sociology 4301, 4311, 4321, 4331, 4341, 4351, or 4361 (select one)</td>
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<tr>
<td>Sociology 4401, 4411, 4421, 4431, 4441, 4451, 4461, 4471, or 4481 (select one)</td>
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</table>
| Sociology 4701 or 4711 ..................................................................... 3

Approved sociology elective ................................................................................................................................. 3
Approved social sciences electives ....................................................................................................................... 5
Approved electives .................................................................................................................................................. 5

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DEPARTMENT OF SPEECH COMMUNICATION, THEATRE, AND COMMUNICATION DISORDERS

CHAIRMAN: HopKins, Professor

OFFICE: 136 Coates Hall
TELEPHONE: (504) 388-4172

Speech Communication

OFFICE: 136 Coates Hall
TELEPHONE: (504) 388-4172

PROFESSORS: HopKins, King, Peterson, J. D. Ragsdale
ASSOCIATE PROFESSOR: Mixon
ASSISTANT PROFESSORS: Cooper, Edwards, Gebert, Honeycutt, Zagacki
INSTRUCTORS: Coates, Greene

Theatre

OFFICE: 217 Music & Dramatic Arts Building
TELEPHONE: (504) 388-1744

PROFESSORS: Dennis, Harbin
ASSOCIATE PROFESSOR: Anderson, Tandberg
ASSISTANT PROFESSORS: Acampora, Enos, Gilday, Kelly

Communication Disorders

OFFICE: 163 Music & Dramatic Arts Building
TELEPHONE: (504) 388-2545

PROFESSORS: Buckingham, Cullen, Daniloff (Director)
ASSOCIATE PROFESSORS: Collins, Dixit, Hoffman, Hudson, Yule
ASSISTANT PROFESSORS: J. Damico, Miller, Norris
INSTRUCTORS: S. Damico, Schum, Taylor, Travis, Waldron

Speech Minor: For a minor in speech, a student must earn a minimum of 15-18 hours in departmental courses, of which at least six semester hours must be in courses numbered above 3000.

Speech Communication: The speech communication program has three areas—communication theory, performance of literature, and rhetoric and public address. Students may choose a program in speech communication which combines all three areas or they may concentrate in one area.

Students in speech communication investigate communication processes as they occur within and among individuals, groups, organizations, and societies. They study interpersonal and nonverbal communication, public speaking, rhetorical criticism, history of public address, argumentation and persuasion, organizational communication, performance of literature, political communication, film, group discussion, and other aspects of communication.

Analytical and critical thinking skills are developed. Students learn to communicate more effectively and to understand as well as facilitate the communication of others. Careers in law, government, teaching, social...
service, speech writing, public relations, broadcasting, and advertising all rely on the ability to communicate successfully.

Opportunities for extracurricular student participation include debate, discussion, and individual events. Several reading hours, as well as public performances, are presented each semester for those interested in the performance of literature.

The Theatre Program: During the academic year, LSU Theatre produces seven major productions directed by faculty and guest artists in the University Theatre, as well as several student-directed workshop productions in Theatre 150. The theatre program provides students with professional training as scholars and artists, as well as an opportunity for experimentation and research. It also provides a cultural resource for the University and an opportunity for meaningful participation in theatre by students majoring in other areas.

It is recommended that students concentrating in theatre take the following courses: Theatre 1025, 2022, 2025, 2026, 2028, 3024, 4125; three semester hours of theatre history (Theatre 4126 or 4128 or 4129); and three semester hours of dramatic literature (Theatre 4120 or 4121 or 4130). In addition to the 25 hours of core courses, students should take 12 additional hours in theatre at the 3000 or 4000 level.

Speech Pathology and Audiology Concentration: The academic program for a student concentrating in speech-language pathology and audiology will be reviewed at successive stages in the training program by a faculty committee.

The first review occurs when a student is enrolled in Communication Disorders 2081, at which time the student must pass a speech proficiency examination. Speech proficiency also must be demonstrated prior to enrollment in Communication Disorders 4683.

The second review occurs following completion of the following five courses: Communication Disorders 4150, 4250, 4253, 4380, and 4384. No student with an overall gpa of less than 2.50 will be considered for admission into the program. Students having sufficiently high combined scores based on the overall grade-point average and the grade-point average in the five courses listed above will be accepted for enrollment in Communication Disorders 4190, 4381, 4382, and 4683.

The third review occurs following completion of Communication Disorders 4190, 4380, 4382, and 4683 with minimum grades of "C." At this time, personal and academic characteristics considered important for clinical success are evaluated.

The fourth review precedes admission to the graduate program. Admission to the graduate program will be based on grade-point average, Graduate Record Examination scores, and letters of reference. A master's degree or its equivalent is required of individuals who wish to obtain a license in speech pathology and/or audiology from the Louisiana Board of Examiners in Speech Pathology and Audiology; a restricted certificate as a Speech-Language-Hearing Specialist from the Louisiana State Board of Education; and/or the Certificate of Clinical Competence in Speech Pathology and/or Audiology from the American Speech, Language, and Hearing Association.

All students will be counseled by an advisor in communication disorders regarding the appropriate programs in the College of Arts and Sciences.

Speech and Hearing Clinic: As part of its training program, which was accredited in speech pathology by the American Board of Examiners in Speech Pathology and Audiology in 1971, the department maintains a clinic for the diagnosis and treatment of communicative disorders. Clinical services are available to any individual, University student, or community member having speech, hearing, or language problems. The entire range of disorders is handled, including articulation, stuttering, cleft palate, voice disorders, aphasia, cerebral palsy, children's language disorders, and hearing disorders. Students concentrating in speech pathology and audiology can obtain practicum experience in the University clinic as well as in the community clinics with which the University training program is associated, such as the Baton Rouge Speech and Hearing Foundation, the East Baton Rouge Parish public schools, and the Veterans' Administration Outpatient Clinic.

Anyone needing clinical services should contact the Speech and Hearing Clinic, 144 Music and Dramatic Arts Building.

CURRICULUM IN SPEECH
TOTAL SEM. HRS.: 128

 Majors in the Department of Speech Communication, Theatre, and Communication Disorders must complete a minimum of 36 semester hours of approved electives in the department. At least 12 of these hours must be numbered 3000 or above. Students should contact a faculty advisor in the appropriate unit to decide on a program of approved electives.

Consult "Degree Requirements of the College" in this section of the catalog for specific instructions regarding electives and the general education, biological and physical sciences, literature, mathematics, and social sciences requirements.
### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>Foreign language courses</td>
<td>10</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>Approved introductory departmental courses</td>
<td>6</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
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### SEM. HRS.

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### JUNIOR YEAR

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<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Approved history electives</td>
<td>6</td>
</tr>
<tr>
<td>Approved departmental electives</td>
<td>12</td>
</tr>
<tr>
<td>General education social sciences courses (two fields other than history)</td>
<td>6</td>
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<tr>
<td>Approved electives</td>
<td>8</td>
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### SEM. HRS.

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### SENIOR YEAR

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<th>Course Description</th>
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<tbody>
<tr>
<td>Approved departmental electives</td>
<td>12</td>
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<tr>
<td>General education arts course (select from art, music, philosophy, theatre)</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
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<tr>
<td>Approved social sciences electives</td>
<td>3</td>
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<td>Approved electives</td>
<td>11</td>
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### SOPHOMORE YEAR

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<th>Course Description</th>
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<tr>
<td>Foreign language (through course 2055)</td>
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<tr>
<td>General education analytical reasoning course</td>
<td>3</td>
</tr>
<tr>
<td>General education biological or physical sciences (one science with 2 sem. hrs. of lab)</td>
<td>6-8</td>
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<tr>
<td>Approved literature courses</td>
<td>6</td>
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<tr>
<td>Approved departmental electives</td>
<td>6</td>
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<tr>
<td>Approved electives or ROTC</td>
<td>4</td>
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The College of Basic Sciences offers preparation for careers in biochemistry, botany, chemistry, computer science, geology and geophysics, microbiology, physics and astronomy, and zoology and physiology. It also provides students with strong academic backgrounds for professional study in medicine and dentistry and for many other careers that require in-depth study of science.

The departments within the college, the various curricula, and the degrees which may be earned are shown in the following chart. These curricula provide broad general education as well as knowledge of the structure of science. Students in the college may also choose curricula which provide premedical preparation, including curricula in biochemistry, basic chemistry with a life sciences option, computer science with a life sciences option, microbiology, physics with a life sciences option, and zoology. Students who want to obtain knowledge and develop skills in two areas concomitantly in preparation for interdisciplinary careers should consider the "second area" options of the Departments of Chemistry, Computer Science, and Physics and Astronomy.

The programs of the college are accredited by all the recognized national organizations concerned with such functions. Classroom and laboratory study may be supplemented by contact with active research programs.

The Department of Computer Science offers work leading to the bachelor's and doctoral degrees in computer science and is a participating department in the University's graduate program leading to the Master of Science in Systems Science degree. The other departments of the college offer work leading to the bachelor's, master's, and doctoral degrees. For specific information concerning undergraduate degree programs, refer to the curricula offered by the departments on the following pages. Detailed information about graduate degree programs may be obtained from the Graduate School Catalog.
ADMISSION REQUIREMENTS

**Junior Division students** who contemplate entering this college should give special attention to the mathematics and science courses they select and should consult a representative of the department they plan to enter prior to completing their initial registration.

Junior Division students will be admitted to the college when they have met the following requirements:

1. earned 24 or more semester hours;
2. maintained a grade-point average of at least 2.00;
3. passed all courses in mathematics and science with grades of "C" or better or received special approval of the dean of the college; and
4. passed English 1002 with a grade of "C" or better.
5. must be eligible for Mathematics 1550.

**Transfer students** from other divisions of the University or from other accredited colleges or universities will be permitted to enter the college when they: (1) present, by means of an official transcript, evidence that they have met the same requirements as students entering from Junior Division; and (2) receive approval of the dean of the college. Students who, after initial enrollment in this college, wish to obtain credits from colleges or universities other than LSU and who plan to offer such credits toward their degree requirements must obtain prior approval from the dean on a specific-course basis.
CORRESPONDENCE AND EXTENSION CREDITS

Correspondence and extension credits may be accepted toward meeting degree requirements only with approval of the dean of the college and may not exceed a total of 12 hours.

Students in residence may take courses by correspondence only in exceptional cases (e.g., conflicts between single sections of required courses) and with specific approval of the dean of the college.

DEGREE REQUIREMENTS OF THE COLLEGE

The college offers the bachelor's degree in several curricula designed to give students professional training in an area of concentration. In addition, a core of material representing a broad exposure to the human cultural heritage is an integral part of the curricula in the college. That core consists of the following course work:

**English:** Nine semester hours including freshman composition (English 1002, 1003, or 1005) and one of the literature sequences (English 2020, 2022 or 2025, 2027) or Honors 2002, 3001, 3003 (select two). Degree credit will not be allowed for English 1001 or 1004.

**Mathematics:** Five semester hours of calculus (Mathematics 1550). Degree credit will not be allowed for mathematics courses numbered below 1550.

**Foreign language:** Ten semester hours in the same language (ordinarily, courses numbered 1001 and 2051). Foreign students whose native language is not English and who did not attend an English-speaking high school may satisfy the foreign language requirement in one of three ways: (1) by taking ten semester hours in a language (excluding English) other than their native language; (2) by passing nine hours in their native language in courses above 2070; or (3) by passing nine hours in other humanities, history, or political science courses approved by the dean. Courses specifically for foreign students (such as COMD 1051 and SOCL 1005) may not be used.

**Sciences:** Seventeen semester hours including two semesters of study in the biological sciences, a course in computer science (programming), and a year course in a physical science. Either the biological or physical sciences must include laboratory credits. Courses selected to meet this requirement must be chosen from courses offered by departments in the College of Basic Sciences.

**Social sciences and humanities:** Fifteen semester hours in most curricula of the college. These hours are in addition to the English and foreign language requirements described above. Twelve hours of the required social sciences/humanities courses must be chosen from the list of general education courses in the following way: three hours in the arts, three hours in the humanities, and six hours in the social sciences.

Following is a list of the more important academic policies of the college offered to guide students toward degrees. Further information may be obtained from the pamphlet, "College Rules Regarding Courses Taken for Credit in the College of Basic Sciences" (available in the dean's office).

1. All students must complete a program of study established by the department concerned and approved by the faculty and the dean of the college.

2. No curriculum in the college requires less than 128 semester hours; some curricula require more. Students in all degree programs of the college must earn at least 24 of the last 30 semester hours offered toward their degrees as registrants in the College of Basic Sciences at LSU.

3. Students in all degree programs of the college must earn in residence on the LSU campus at least 18 of the hours offered toward their degrees in courses offered by departments in the College of Basic Sciences. In all degree programs at least nine of these 18 hours must be in courses numbered above 3000 and offered by the department administering the major program. Courses used to satisfy this residence requirement must be passed with a grade of "C" or better.

4. The following courses must be passed with a grade of "C" or better: (1) all required science, computer science, and mathematics courses, (2) all restricted, option, and advanced sciences electives, and (3) English 1002, 1003, or 1005. If a student makes a "D" or "F" in a course requiring a "C", the course must be taken and not dropped the next semester the student is in residence and the course is offered.

5. Nonparticipation courses in HPRD may be taken for elective credit. A maximum of three semester hours will be allowed in HPRD participation (activity) courses. Twelve semester
hours of ROTC may be allowed for degree credit, with no more than six of the twelve semester hours in courses numbered below 3000. However, the sum of basic (1000-2000 level) ROTC course credits and HPRD activity course credits allowed toward the degree may not exceed six semester hours.

6. Students are expected to make reasonable and satisfactory progress in a degree program. Consequently, sequential scheduling of courses in the major field is necessary, and required courses in English and mathematics must be scheduled each semester until they are satisfactorily passed. If necessary, a required course may be dropped once with the approval of the dean, but, normally, not a second time.

7. Application for the bachelor’s degree must be made in writing and approved by the dean of the college prior to the final date for adding courses for credit in the semester in which the degree is anticipated.

8. Juniors and seniors in the college with grade-point averages above 3.50 are considered for election to membership in Phi Beta Kappa. The Phi Beta Kappa selection criteria emphasize breadth of the academic program as well as grade-point average. Superior students interested in becoming members of Phi Beta Kappa are advised to choose the English literature sequence (ENGL 2020, 2022) and to use elective credits for an additional foreign language course, a higher level English course, and basic rigorous courses in several areas of the humanities and social sciences, as well as some 4000 level work in these areas. Required courses in mathematics and science generally meet the expectations of Phi Beta Kappa in those areas.

MINOR FIELD REQUIREMENTS (OPTIONAL)

A student in the College of Basic Sciences may earn a minor in a second field under the following conditions:

1. The minor must include at least 15 semester hours of course work in a single department, of which at least six semester hours must be taken on this campus and at least three of the six hours must be at the 4000 level.
2. Each course used in the minor must be passed with a grade of “C” or better.
3. Courses used for the minor may not be taken on a pass/fail basis.

The department offering the minor may impose additional requirements; the specific requirements of the department must be stated in the catalog. Interdisciplinary minors involving more than one department must be approved by the dean.

PREMEDICAL AND PREDENTAL COUNSELING

A premedical/predental counselor is available to help students plan their undergraduate curricula and to assist with application to medical and dental schools.

REQUIREMENTS FOR A SECOND BACHELOR’S DEGREE

In order to qualify for a second bachelor’s degree, students must meet all academic requirements of the college, earn a minimum of 24 semester hours as a resident in the College of Basic Sciences, and earn 30 semester hours beyond the work offered for the degree requiring the lesser number of hours.

PASS-FAIL OPTION

Students in the College of Basic Sciences may register for courses in the college on a pass-fail basis under the following conditions:

1. Only students with a 2.50 average or better may participate.
2. Required courses, electives chosen from several listed, and courses germane to the major and the career for which the student is preparing may not be taken on a pass-fail basis. Registration for a course on a pass-fail basis will not be permitted until the required work in the same area has been satisfactorily completed. A student may not take courses offered by the Division of Honors and Interdisciplinary Studies on a pass-fail basis.
3. Eligible students may take one course per semester up to a total of 12 hours toward the degree on a pass-fail basis.
4. A student must have permission (by signatures on a petition form) from the dean of this college, the instructor of the course, the student’s department chairman, and the dean of the college in which the course is offered.

5. Pass-fail registration must be completed before the final day for adding courses.

Students from other colleges who wish to register for courses in this college on a pass-fail basis will present a petition form to the dean of the college. If the petition is approved, the student will then present the form to the instructor concerned for the appropriate action. Courses offered by the College of Basic Sciences that are required in a student’s curriculum or that are normally considered important in preparation for the student’s career will not be approved on a pass-fail basis.

Departments and Curricula

DEPARTMENT OF BIOCHEMISTRY

CHAIRMAN: Laine, Professor

BOYD PROFESSOR: Pryor

PROFESSORS: Chang, Laine, Younathan

ASSOCIATE PROFESSORS: Bartlett, Deutsch, Montelaro, Shih

ASSISTANT PROFESSORS: Jaynes, Klotz, Morden, Nelson, Zimmer

INSTRUCTOR: Hawkins

ADJUNCT FACULTY: Hales, Hsieh, Moore, Moroney, Murai, Winston

The Department of Biochemistry administers curricula in biochemistry and participates in an organized research program in fundamental areas of biochemistry.

The biochemistry curricula deal with events which occur in living systems at the molecular level and in the chemistry of molecules involved in these processes. A student may obtain a Bachelor of Science degree with a major in biochemistry by either of two routes.

1. The basic curriculum in biochemistry provides thorough training in chemistry and a solid foundation in biological sciences. Although it is designed for students who wish to become professional biochemists, it also serves as excellent preparation for entry into medical or dental school.

2. The preprofessional science option in biochemistry is preferred by many students who plan to enter medical or dental school after completion of an undergraduate degree. The program places strong emphasis on the physiological applications of chemistry, physics, and biochemistry.

CURRICULUM IN BIOCHEMISTRY

TOTAL SEM. HRS.: 134

Approved electives in the freshman and sophomore years may include a total of six semester hours of basic ROTC.

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<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
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<td>Chemistry 2261, 2262, 2463</td>
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</tr>
<tr>
<td>English 1002</td>
<td>3</td>
<td>Computer Science 1240 or 1241</td>
<td>3</td>
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<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
<td>English 2020, 2022; or 2025, 2027</td>
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<tr>
<td>Zoology 1001, 1002</td>
<td>8</td>
<td>Microbiology 2051</td>
<td>4</td>
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<tr>
<td>General education arts course</td>
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<td>Physics 1201, 1202, 1208, 1209; or 2101, 2102, 2108, 2109</td>
<td>8</td>
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<td>Approved electives</td>
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<td>Approved electives</td>
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<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Chemistry 2251, 2252, 2464, 4491, 4492</td>
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<td>Biochemistry 4385, 4390, 4093, 4094</td>
<td>10</td>
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<tr>
<td>Foreign language courses 1001, 2051</td>
<td>10</td>
<td>Chemistry 4493, 4552 4561, 4562</td>
<td>6</td>
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<tr>
<td>General education social sciences/humanities courses</td>
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<td>4594, Biochemistry 4397, 4595 (select two)</td>
<td>5-6</td>
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<td>Approved electives</td>
<td>4</td>
<td>Social sciences/humanities courses (3000 level or above)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>33</td>
<td>Approved biological sciences elective</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>34-35</td>
</tr>
</tbody>
</table>
CURRICULUM IN BIOCHEMISTRY (PREPROFESSIONAL SCIENCE OPTION—PREMEDICINE, PREDENTISTRY, OR PREPHARMACY)

This option is not intended for students planning to enter graduate study in biochemistry. Approved electives in the freshman and sophomore years may include a total of six semester hours of basic ROTC. The advanced science or mathematics electives will be selected with approval of the departmental advisor and the dean of the college and may be used to satisfy any particular or unusual requirements of the professional school of the student's choice.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550</td>
<td>5</td>
</tr>
<tr>
<td>Zoology 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 2261, 2262, 2364</td>
<td>8</td>
</tr>
<tr>
<td>Computer science programming course</td>
<td>3</td>
</tr>
<tr>
<td>English 2020, 2022, or 2025, 2027; or</td>
<td></td>
</tr>
<tr>
<td>Honors 2002, 3001,3003</td>
<td>6</td>
</tr>
<tr>
<td>Microbiology 2051</td>
<td>4</td>
</tr>
<tr>
<td>Approved electives</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry 4001</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 2251, 2252</td>
<td>5</td>
</tr>
<tr>
<td>Foreign language courses 1001, 2051</td>
<td>10</td>
</tr>
<tr>
<td>Biological sciences electives</td>
<td>3-4</td>
</tr>
<tr>
<td>General education social sciences/humanities courses</td>
<td>6</td>
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<td>Approved electives</td>
<td>6-5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry 4093, 4094, 4385, 4390</td>
<td>10</td>
</tr>
<tr>
<td>Approved advanced science or mathematics electives</td>
<td>9</td>
</tr>
<tr>
<td>Social sciences/humanities courses (3000 level or above)</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

### DEPARTMENT OF BOTANY

**CHAIRMAN:** Moore, Professor  
**BOYD PROFESSOR:** Tucker  
**PROFESSORS:** Chapman, Moore  
**ASSOCIATE PROFESSORS:** Blackwell, Grace, Longstreth, Platt, Urbatsch, Williamson  
**ASSISTANT PROFESSORS:** Bricker, Moroney  
**INSTRUCTOR:** Sundberg  
**ADJUNCT FACULTY:** Fischer, Zimmer

An undergraduate minor in botany is available. Required courses are BOTY 1101, 1102, 3060, and eight additional semester hours of botany at the 3000 level or above, of which at least three semester hours must be at the 4000 level (total of 20 hours).

**CURRICULUM IN BOTANY**

**TOTAL SEM. HRS.:** 128

Microbiology 2051 and Zoology 2153, 2154 may be counted toward the 24 hours of botany courses required of majors. Approved electives in the freshman and sophomore years may include a total of six sem. hrs. of basic ROTC.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany 1001, 1002; or Biology 1001, 1002, 1003, 1004</td>
<td>8</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language courses 1001, 2051</td>
<td>10</td>
</tr>
<tr>
<td>Mathematics 1550</td>
<td>5</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
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<tr>
<td>Approved electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>Computer science programming course</td>
<td>3</td>
</tr>
<tr>
<td>English 2020, 2022, or 2025, 2027; or Honors 2002, 3001,3003</td>
<td>6</td>
</tr>
<tr>
<td>General education social sciences/humanities courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>
DEPARTMENT OF CHEMISTRY

CHAIRMAN: Cartledge, Professor
BOYD PROFESSORS: McGlynn, Pryor
PROFESSORS: Bhacca, Carpenter, Cartledge, Daly, Fischer, Gandour, Kestner,
Nauman, Robinson, Runnels, Selbin, Traynham, Wharton
ASSOCIATE PROFESSORS: Barkley, Cherry, Gale, Hales, Koppenol, Watkins
ASSISTANT PROFESSORS: Babcock, Butler, Church, Foley, Hall, Hopkins, Kumar,
Maverick, McLaughlin, Russo, Stanley
INSTRUCTORS: Robson, Weingarten
ADJUNCT FACULTY: Findley, Laine, Overton

Through two curricula offered by the Department of Chemistry, students obtain a thorough working knowledge of the fundamentals of the various branches of chemistry, supplemented by study in physics, mathematics, and other sciences. Both programs are further enriched by the requirement of a broad basic background in the social sciences and humanities. The department offers special lecture and laboratory courses (or special sections of courses) for its majors.

The curriculum in basic chemistry (with options) includes 62 semester hours of elective credit, 25-30 of which must constitute an approved option. Among the traditional options is a program that specifically prepares students for graduate study in chemistry. Students may also combine basic chemical education with an emphasis in a second area, with approval of the dean. This program will permit emphasis in many areas where need for a chemical background has been shown. For example, options in physics, computer science, life sciences, geology, engineering, business administration, ecology, history, foreign languages, marine sciences, political science, and sociology are among those possible.

Students who complete certain courses in the basic chemistry curriculum are certified as chemists by the American Chemical Society at the time of their graduation.

An undergraduate minor in chemistry is available. Requirements are a minimum of 20 semester hours of chemistry, including at least two laboratory courses and at least three semester hours at the 4000 level.

**CURRICULUM IN BASIC CHEMISTRY (WITH OPTIONS)**

**TOTAL SEM. HRS.: 136**

**Electives:** An approved option consists of 25-30 sem. hrs. of electives in one area. Any area may be chosen, with approval of the dean, provided that education in depth is planned through the option. Approved electives in the freshman and sophomore years may include a total of six sem. hrs. of basic ROTC.

With the dean's approval, Chemistry 1202, 1212 may be substituted for Chemistry 1422, 1431.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201 or 1421; 1422; 1431</td>
<td>8</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
</tr>
<tr>
<td>Foreign language courses 1001, 2051</td>
<td>10</td>
</tr>
<tr>
<td>Approved electives</td>
<td>3</td>
</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 4491, 4492, 4551, 4570</td>
<td>12</td>
</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Biological sciences sequence</td>
<td>6-8</td>
</tr>
<tr>
<td>General education social sciences/humanities courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>5-3</td>
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</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 2261, 2262, 2364</td>
<td>8</td>
</tr>
<tr>
<td>Approved botany electives</td>
<td>4</td>
</tr>
<tr>
<td>Social sciences/humanities courses (3000 level or above)</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>10</td>
</tr>
<tr>
<td>Approved botany electives (3000 level or above)</td>
<td>8</td>
</tr>
<tr>
<td>Approved electives</td>
<td>16</td>
</tr>
<tr>
<td>Approved electives</td>
<td>32</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1432, 2261, 2262, 2463</td>
<td>11</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>8</td>
</tr>
<tr>
<td>Computer science programming course</td>
<td>8</td>
</tr>
<tr>
<td>Physics 2101, 2102, 2108, 2109</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>9</td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 4493 or 4553</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 4552</td>
<td>2</td>
</tr>
<tr>
<td>Social sciences/humanities courses (3000 level or above)</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>23</td>
</tr>
</tbody>
</table>

**TELEPHONE: (504) 388-3361**

College of Basic Sciences 173
Option for Students Preparing for Graduate Study in Chemistry: Students completing this option will receive American Chemical Society certification.

SOPHOMORE YEAR: Mathematics 2065 or 2085 or 2090 (3-4 sem. hrs.).

JUNIOR YEAR: Chemistry 2464; and Chemistry 4581 or Physics 2111 (5 sem. hrs.); Mathematics 2057 or Computer Science 2263, or an advanced physics course numbered above 2111 (3 sem. hrs.).

SENIOR YEAR: Chemistry 4493 or 4553 (2 or 3 sem. hrs.)—choose the course not elected in the senior year, as listed above; approved chemistry electives (6 sem. hrs.)—must include a minimum of six sem. hrs. representing two areas of chemistry selected from Chemistry 3900, 4554, 4561, 4594, 4595, 4596, and Biochemistry 4093; approved physics electives (3 sem. hrs.)—select from Physics 2221, 2231, 4132, 4135, 4141, and 4142.

**DEPARTMENT OF COMPUTER SCIENCE**

**CHAIRMAN:** Kraft, Professor  
**OFFICE:** 298 Coates Hall  
**TELEPHONE:** (504) 388-1495

**LSU FOUNDATION MURPHY J. FOSTER PROFESSOR:** Chen  
**PROFESSORS:** Iyengar, J.B. Jones, Kraft  
**ASSOCIATE PROFESSORS:** Carver, L. Jones, Kundu, Tyler  
**ASSISTANT PROFESSORS:** Hoppe, Tzvieli, Zheng

The impact of the digital computer on our everyday lives has been greater than that of any other technological development in modern times, even atomic energy. The study of computer science encompasses all aspects of computing machines and their applications in virtually every area of society today.

The curriculum leading to the Bachelor of Science degree with a major in computer science is structured around basic courses in computer science and mathematics. Students are expected to schedule, via a 24-hour approved elective group, enough courses in another area to provide them with a basic understanding of the principles of that area. The curriculum requires a broad background in the humanities and social sciences and also provides the student with electives to pursue other interests.

Students wishing to continue their studies at the graduate level may major in computer science or, in some cases, in the discipline of the 24-hour approved elective group.

An undergraduate minor in computer science is available. Courses required are CSC 1250, 1251, 2252, 2259, 3102; 2263 or 2280; and 4101 or 4103 (total of 21 hours).

**CURRICULUM IN COMPUTER SCIENCE**

**TOTAL SEM. HRS.: 132**

Students entering this curriculum must be eligible for Mathematics 1550.

**Restricted electives must constitute an approved option of 24 semester hours. Any second area may be chosen, with consent of the dean and the department, provided that in-depth education is planned. Up to six of these 24 hrs. may be taken in computer science courses if remaining hours permit in-depth study in the option.**

Electives in the freshman and sophomore years may include a total of six sem. hrs. of basic ROTC. The computer science elective (three sem. hrs.) must be an approved senior-level computer science course.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 1250, 1251</td>
<td>6</td>
<td>Computer Science 2252, 2259, 2280</td>
<td>9</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
<td>Economics 2030</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
<td>English 2020, 2022; or 2025, 2027 or</td>
<td></td>
</tr>
<tr>
<td>Biological or physical sciences sequence</td>
<td>6</td>
<td>Honors 2002, 3001, 3003</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
<td>Mathematics 2090</td>
<td>4</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6</td>
<td>General education biological or physical sciences sequence with lab</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General education social sciences/humanities course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>34</td>
<td></td>
<td>33</td>
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</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 3102, 4101, 4103</td>
<td>9</td>
<td>Computer science elective</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language courses 1001, 2051</td>
<td>10</td>
<td>Social sciences/humanities courses (3000 level or above)</td>
<td>6</td>
</tr>
<tr>
<td>Industrial Engineering 3302*, 4510**</td>
<td>6</td>
<td>Approved electives</td>
<td>22</td>
</tr>
<tr>
<td>Computer Science 2263***</td>
<td>3</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>34</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Students who have completed the prerequisites may substitute MATH 4055 or QBA 4000.

**Students who have completed the prerequisites may substitute MATH 4056, QBA 4020, or EE 4640.

***Students who have completed the prerequisites may substitute ME 4533 or MATH 4065.
SCHOOL OF GEOSCIENCE

DIRECTOR: Coleman, Boyd Professor
TELEPHONE: (504) 388-2302

OFFICE: 235 Howe/Russell Geoscience Complex

Within the School of Geoscience are the Department of Geology and Geophysics, the Basin Research Institute, and the Coastal Studies Institute.

DEPARTMENT OF GEOLOGY AND GEOPHYSICS

CHAIRMAN: Wiseman, Professor

BOYD PROFESSOR: Coleman
CAMPANILE CHARITIES PROFESSOR: Hazel
ASSOCIATE PROFESSORS: Adams, Aharon, Baksi, Chan, Dokka, Nunn, Rouse
ASSISTANT PROFESSORS: Ghiold, Henry, V. Hsu, Inoue, McCabe, Schedl, Williams

ADJUNCT FACULTY: Kesel, Sassen, Schiebout

The geology and geophysics curriculum is structured to develop a broad mathematics and natural sciences background. Students are then introduced to laboratory and field techniques required to solve the complex problems associated with the varied processes which shape the earth. The curriculum prepares students for graduate studies or for careers in geology and geophysics. Students interested in the biological aspects of geology and geophysics should include Biology 1003 and 1004 in their program of study.

Both graduate and undergraduate majors in geology must pay a $35 field service fee each semester. Students not majoring in geology and geophysics who schedule courses requiring field trip fees will be assessed a pro rata part of the above amount as determined by the department chairman. Part-time students enrolled in seminar courses only and students registered for thesis or dissertation only are exempt from paying this fee. Information concerning special fees for summer camps may be obtained from the Department of Geology and Geophysics.

An undergraduate minor in geology is available. Required courses are GEOL 1001, 1003, 1601, 1602, 2081; 2071 or 2082; and two courses chosen from GEOL 3011, 4031, 4041, 4064, 4066, 4067, 4068, or 4082 (total of 20-22 hours).

Honors courses offered are Geology 1002 and 1004.

CURRICULUM IN GEOLOGY

TOTAL SEM. HRS.: 136

Approved Science and Mathematics Electives: Biochemistry 2280 and above; Botany 4000-level; Chemistry 2261 and above; Computer Science 2280 and above; Geography 2050, 4013, 4015, 4020, 4021, 4022, 4023, 4028, and 4045; Geology 3909 and above; Physics above 2109; Mathematics 2057 and above; Zoology 2152 and above.

Approved electives in the freshman and sophomore years may include a total of six sem. hrs. of basic ROTC.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>Geology 1001, 1003, 1601, 1602</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
</tr>
<tr>
<td>General education humanities/social sciences course</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>10</td>
</tr>
<tr>
<td>Geology 2071, 2081, 2082</td>
<td>10</td>
</tr>
<tr>
<td>General education humanities/social sciences course</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>35</strong></td>
</tr>
</tbody>
</table>
### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer science 2262</td>
<td>3</td>
</tr>
<tr>
<td>English 3002</td>
<td>3</td>
</tr>
<tr>
<td>Geology 3011, 3061, 4031</td>
<td>10</td>
</tr>
<tr>
<td>Physics 2101, 2102, 2108, 2109</td>
<td>8</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>Free electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

### SUMMER (FOLLOWING JUNIOR YEAR)

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geology 3666</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6</strong></td>
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</tbody>
</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geology 4041, 4082</td>
<td>6</td>
</tr>
<tr>
<td>Geology 4064</td>
<td>3</td>
</tr>
<tr>
<td>Geology 4066</td>
<td>3</td>
</tr>
<tr>
<td>Approved science/mathematics courses</td>
<td>9</td>
</tr>
<tr>
<td>Free electives</td>
<td>6</td>
</tr>
<tr>
<td>Humanities/social sciences course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

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### Basin Research Institute

**ACTING DIRECTOR:** Sassen, *Professor*  
**OFFICE:** 335 Howe/Russell Geoscience Complex  
**TELEPHONE:** (504)388-8328

The Basin Research Institute performs multidisciplinary research to evaluate the remaining hydrocarbon and mineral resources of the Gulf Coast. Research focuses on regional stratigraphy and sedimentation, geochemical basin analysis, carbonate diagenesis, and reservoir characterization. Interaction is fostered between the departments of Geology and Geophysics, Petroleum Engineering, the Coastal Studies Institute, and the Louisiana Geological Survey. Research results are disseminated through publications in national and international journals, and through Basin Research Institute publications and presentations. This research assists companies involved in petroleum exploration and production within the state by providing innovative technology that is otherwise unavailable. An important objective is to build upon state support by obtaining additional research funding through granting agencies and through petroleum companies.

### Coastal Studies Institute

**DIRECTOR:** Murray, *Professor*  
**OFFICE:** 331 Howe/Russell Geoscience Complex  
**TELEPHONE:** (504)388-2954

The Coastal Studies Institute, a research organization established in 1954 with major emphasis on dynamic processes in the ocean, atmosphere, and marine geology, receives support from the Coastal Sciences Program of the Office of Naval Research, the Corps of Engineers, the Sea Grant Program, the National Science Foundation, and major petroleum companies. Research is interdisciplinary, extending into marine geology and geophysics, hydrodynamics, dynamic meteorology, physical oceanography, and remote sensing. Field investigations have been undertaken on all continents (except Antarctica), including the coast of the Arctic Ocean. Research concentrates on form-process relationships in coastal and continental-shelf environments. The emphasis of the marine geology program is on deltaic and shelf sedimentary environments and sediment-transport mechanisms, including mass-movement processes. Physical oceanography research focuses on the dynamics of water and sediment particulates in near-coastal, continental shelf and slope, and marginal ocean basin environments including numerical modelling of such processes. The dynamic meteorology program addresses research problems in the coastal zone and marine boundary layer. An Industrial Associates Research Program supplements contractual research funds.

### DEPARTMENT OF MICROBIOLOGY

**ACTING CHAIRMAN:** Moore, *Professor*  
**OFFICE:** 508 Life Sciences Building  
**TELEPHONE:** (504) 388-2601

**PROFESSORS:** Braymer, Larkin, Moore, Siebling, Socolofsky, Srinivasan  
**ASSOCIATE PROFESSOR:** Orlowski
ASSISTANT PROFESSORS: Achberger, Belas, Biel, Gayda
INSTRUCTORS: Harris, Potter

An undergraduate minor in microbiology is available. Required courses are MBIO 2051 and 11 additional semester hours of microbiology (excluding MBIO 4933 and 4934) at the 3000 level or above, of which at least three hours must be at the 4000 level (total of 15 hours).

CURRICULUM IN MICROBIOLOGY
TOTAL SEM HRS.: 128

Microbiology 2051 and 16 additional hours of microbiology courses, including 12 hours in courses numbered 3000 and above, are required for graduation. Approved electives in the freshman and sophomore years may include a total of six sem. hrs. of basic ROTC.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550</td>
<td>5</td>
</tr>
<tr>
<td>Zoology 1001, 1002; or Biology 1001, 1002, 1003, 1004</td>
<td>8</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>5</td>
</tr>
<tr>
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JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Chemistry 2251, 2364</td>
<td>5</td>
</tr>
<tr>
<td>Approved microbiology electives</td>
<td>6</td>
</tr>
<tr>
<td>General education social sciences/humanities courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
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SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Chemistry 2261, 2262</td>
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</tr>
<tr>
<td>Computer science programming course</td>
<td>3</td>
</tr>
<tr>
<td>English 2020, 2022, or 2025, 2027, or Honors 2002, 3001, 3003</td>
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<td>Foreign language courses 1001, 2051</td>
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<tr>
<td>Microbiology 2051</td>
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SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Chemistry 2252</td>
<td>2</td>
</tr>
<tr>
<td>Approved microbiology electives</td>
<td>10</td>
</tr>
<tr>
<td>Social sciences/humanities courses 1000 level or above</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>33</td>
</tr>
</tbody>
</table>

CURRICULUM IN MICROBIOLOGY (SUGGESTED PREMEDICAL AND PREDENTAL OPTION)
TOTAL SEM HRS.: 125

Microbiology 2051 and 16 additional hours of microbiology courses, including 12 hours in courses numbered 3000 and above, are required for graduation. Approved electives in the freshman and sophomore years may include a total of six sem. hrs. of basic ROTC.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
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</tr>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550</td>
<td>5</td>
</tr>
<tr>
<td>Zoology 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
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JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Chemistry 2251, 2364</td>
<td>5</td>
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<tr>
<td>Microbiology 4110, 4121</td>
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<tr>
<td>General education social sciences/humanities courses</td>
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<tr>
<td>Approved electives</td>
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<td></td>
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SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Chemistry 2261, 2262</td>
<td>6</td>
</tr>
<tr>
<td>Computer science programming course</td>
<td>3</td>
</tr>
<tr>
<td>English 2020, 2022, or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Foreign language courses 1001, 2051</td>
<td>10</td>
</tr>
<tr>
<td>Microbiology 2051</td>
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<tr>
<td>Approved electives</td>
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SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Chemistry 2252</td>
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</tr>
<tr>
<td>Microbiology 4122, 4146</td>
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<tr>
<td>Approved microbiology electives*</td>
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<tr>
<td>Social sciences/humanities courses 3000 level or above</td>
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<tr>
<td>Approved electives**</td>
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<tr>
<td></td>
<td>29</td>
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</tbody>
</table>

*Suggested microbiology electives: Microbiology 3115 and 4190.
**Predental students must take Zoology 2152 or 3156 to satisfy professional school requirements. Suggested approved electives include Philosophy 2018, Business Administration 1001, Biochemistry 4087, and Zoology 2152.
### DEPARTMENT OF PHYSICS AND ASTRONOMY

**CHAIRMAN:** Draayer, *Professor*

**OFFICE:** 202 Nicholson Hall  
**TELEPHONE:** (504) 388-2261

**BOYD PROFESSORS:** Callaway, O'Connell  
**PROFESSORS:** Chan, Channugam, Draayer, Drilling, Goodrich, Greene, Grenier, Hamilton, Haymaker, Henry, Huggett, Hussey, Imlay, Jones, Koester, Landolt, Perry, Rau, Zganjar  
**ASSOCIATE PROFESSORS:** Grenchik, Ho, Johnson, Kirk, Lee, Metcalf, Piller, Tohline, Wefel, Zebouni  
**ASSISTANT PROFESSORS:** Brener, Brown

This department offers undergraduate students a program in physics with options. There is a central core of course work common to all programs. In combination with the basic core, students may elect options in physics, astronomy, or a cognate field to prepare for graduate study in either physics or astronomy or to develop interest in a second discipline. With approval of the dean of the college and a faculty advisor of the department, any second area of study may be chosen, provided that in-depth study is planned in the chosen field. Such a program of study permits added emphasis in any area where a basic background in physics is desirable. All options give a thorough knowledge of physics, an adequate foundation in mathematics, and a broad background in the social sciences and humanities.

An undergraduate _minor in physics_ is available. Required courses are PHYS 1201, 1202, 1208, 1209, (or PHYS 2101, 2102, 2108, 2109); Phys 2111; and at least three courses in physics above 2200 (excluding 2401, 2995, 4055, 4399, and 4991) of which at least three hours must be at the 4000 level, and/or astronomy above 4000 (excluding 4997), for a total of 20-22 hours.

### CURRICULUM IN PHYSICS (PHYSICS OPTION)

**TOTAL SEM. HRS.: 130**

_Slants students planning to enter graduate school are encouraged to select a modern foreign language. Approved electives in the freshman and sophomore years may include a total of six sem. hrs. of basic ROTC._

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
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<tbody>
<tr>
<td>Chemistry 1201, 1202</td>
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<td>English 2020, 2022; or 2025, 2027; or Honors 2002, 3001, 3003.</td>
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<tr>
<td>English 1002</td>
<td>3</td>
<td>Mathematics 2057</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
<td>Mathematics 2065 or 2090</td>
<td>3-4</td>
</tr>
<tr>
<td>Physics 1201, 1202, 1208, 1209.</td>
<td>10</td>
<td>Physics 2111, 2209, 2221, 2231</td>
<td>13</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
<td>Biological sciences sequence</td>
<td>6-8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Approved electives</td>
<td>3-1</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>34-35</td>
</tr>
<tr>
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<tr>
<td>JUNIOR YEAR</td>
<td>SEM. HRS.</td>
<td>SENIOR YEAR</td>
<td>SEM. HRS.</td>
</tr>
<tr>
<td>Computer science programming course</td>
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<td>Physics 4201, 4202, 4399</td>
<td>9</td>
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<td>Foreign language courses 1001, 2051.</td>
<td>10</td>
<td>Mathematics electives (3000 level or above).</td>
<td>3</td>
</tr>
<tr>
<td>Physics 4125, 4132, 4141, 4142, 4198</td>
<td>15</td>
<td>Social sciences/humanities courses (6 sem. hrs. at 3000 level or above)</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics elective (2085 or 3000 level or above)</td>
<td>3</td>
<td>Approved electives</td>
<td>9-8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>33-32</td>
</tr>
</tbody>
</table>

### CURRICULUM IN PHYSICS (ASTRONOMY OPTION)

**TOTAL SEM. HRS.: 130**

_Students planning to enter graduate school are encouraged to select a modern foreign language. Approved electives in the freshman and sophomore years may include a total of six sem. hrs. of basic ROTC._

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astronomy 1111, 1112</td>
<td>6</td>
<td>English 2020, 2022; or 2025, 2027 or Honors 2002, 3001, 3003</td>
<td>6</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
<td>Mathematics 2057</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
<td>Mathematics 2065 or 2090</td>
<td>3-4</td>
</tr>
<tr>
<td>Physics 1201, 1202, 1208, 1209.</td>
<td>10</td>
<td>Physics 2111, 2209, 2221, 2231</td>
<td>13</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
<td>Biological sciences sequence</td>
<td>6-8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Approved electives</td>
<td>3-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>34-35</td>
</tr>
</tbody>
</table>
### CURRICULUM IN PHYSICS

(Optional in Physics and a Second Discipline)

At least 25 sem. hrs. of electives must be from an approved discipline outside the department. Any second area may be chosen with consent of the dean and a departmental faculty advisor. Students planning to enter graduate school are encouraged to select a modern foreign language. Approved electives in the freshman and sophomore years may include a total of six sem. hrs. of basic ROTC.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astronomy 4261</td>
<td>3</td>
<td>Astronomy 4221, 4222</td>
<td>6</td>
</tr>
<tr>
<td>Computer science programming course</td>
<td>3</td>
<td>Physics 4135, 4201</td>
<td>6</td>
</tr>
<tr>
<td>Foreign language courses 1001, 2051</td>
<td>10</td>
<td>Social sciences/humanities courses (6 sem. hrs. at 3000 level or above)</td>
<td>12</td>
</tr>
<tr>
<td>Physics 4125, 4132, 4141, 4142</td>
<td>12</td>
<td>Approved electives</td>
<td>9-8</td>
</tr>
<tr>
<td>Mathematics elective (2085 or 3000 level or above)</td>
<td>3</td>
<td></td>
<td>31-32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>English 1002</td>
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<td>English 2020, 2022; or 2025, 2027; or Honors 2002, 3001, 3003</td>
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<td>Mathematics 1550, 1552</td>
<td>10</td>
<td>Mathematics 2065 or 2090</td>
<td>3-4</td>
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<tr>
<td>Physics 1201, 1202, 1208, 1209</td>
<td>10</td>
<td>Physics 2111, 2209, 2221, 2231</td>
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<tr>
<td>General education arts course</td>
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<td>Biological sciences sequence</td>
<td>6-8</td>
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<td>Approved electives</td>
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<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
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<th>SEM. HRS.</th>
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<tbody>
<tr>
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<td>Physics or astronomy elective (3000 level or above)</td>
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</tr>
<tr>
<td>Foreign language courses 1001, 2051</td>
<td>10</td>
<td>Social sciences/humanities courses (3000 level or above)</td>
<td>6</td>
</tr>
<tr>
<td>Physics 4132, 4198</td>
<td>6</td>
<td>Approved electives</td>
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</tr>
<tr>
<td>Physics or astronomy elective (3000 level or above)</td>
<td>3</td>
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</tr>
<tr>
<td>Social sciences/humanities courses</td>
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<td>Approved electives</td>
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<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Approved electives</td>
<td>34-31</td>
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<td></td>
</tr>
</tbody>
</table>

### DEPARTMENT OF ZOOLOGY AND PHYSIOLOGY

**CHAIRMAN:** Stickle, Professor  
**OFFICE:** 202 Life Sciences Building  
**TELEPHONE:** (504) 388-1132  

**PROFESSORS:** Caprio, Dietz, Harman, Lee, Meir, Stickle, Weidner, Woodring  
**ASSOCIATE PROFESSORS:** Brown, Fleeger, Foltz, Hafner, Hoberger, Silverman  
**ASSISTANT PROFESSORS:** Collins, Freel, Lynn, Siebenaller, Tedeschi  
**INSTRUCTOR:** Thompson  
**ADJUNCT FACULTY:** Fitzsimmons, Hatch, Remsen, Rossman, Zink

An undergraduate minor in zoology and physiology is available. Required courses are ZOOL 1001, 1002, and seven more semester hours of zoology, including at least one 4000 level course with a laboratory, but excluding courses not for credit for zoology majors (total of 15 hours).

**Marine Zoology:** The department offers course work in the field of marine zoology at the Louisiana Universities Marine Consortium (LUMCON), Cocodrie, Louisiana and the Gulf Coast Research Laboratory, Ocean Springs, Mississippi, through a cooperative arrangement with these institutions. The laboratories are in service throughout the year and are available for field trips by classes interested in marine zoology and by individual research workers. Students wishing to take courses at the marine laboratories should contact the chairman, Department of Zoology and Physiology. Only six semester hours in marine zoology at a field station may be counted toward the 30-hour requirement for undergraduate concentration.

Students choosing a career in marine zoology are urged to prepare themselves by taking the following courses in addition to departmental requirements: Zoology 4155; 6 sem. hrs. from Zoology 4145, 4153, 4154, 4162, 4647, 4673; Chemistry 2251, 2252; Experimental Statistics 4001; 7 sem. hrs. from Botany 1002, 4052, or Geology 1001, 1005, 1601.
CURRICULUM IN ZOOLOGY (INCLUDING SUGGESTED PREPROFESSIONAL OPTION—PREMEDICINE, PREDENTISTRY, or PREPHARMACY)

TOTAL SEM. HRS.: 128

Approved electives in the freshman and sophomore years may include a total of six sem. hrs. of basic ROTC.

Approved zoology electives must include one physiology course in either the junior or senior year.

The zoology curriculum satisfies all Louisiana premedical and predental requirements.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Chemistry 1201, 1202</td>
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<td>Chemistry 1212, 2261, 2262</td>
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<tr>
<td>English 1002</td>
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<td>English 2020, 2022; or 2025, 2027; or Honors 2002, 3001, 3003</td>
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<tr>
<td>Mathematics 1550</td>
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<td>Foreign language courses 1001, 2051</td>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Chemistry 2364</td>
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<td>Physics 2001, 2002, 2108, 2009</td>
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<td>Approved zoology electives (4000 level courses with labs)</td>
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<td>Social sciences/humanities courses (3000 level or above)</td>
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<tr>
<td>General education social sciences/humanities courses</td>
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<td>Approved electives</td>
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</tr>
<tr>
<td>Approved electives</td>
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<td></td>
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</tbody>
</table>
The College of Business Administration offers specialized professional training in several areas of business in addition to a program of general business administration. The curricula of the various departments are shown in the chart below.
Each curriculum is constructed to ensure that students receive a broad general education and a sound foundation in the basic areas of business knowledge. At the same time, students may obtain limited specialization in a particular area of business. The objective of the college is to provide training in the functional fields of business administration so students will be qualified to hold positions of leadership, trust, and responsibility in business and industry.

The College of Business Administration is a member school of the American Assembly of Collegiate Schools of Business (AACSB). Its undergraduate programs have been accredited continuously by the AACSB since 1931.

ADMISSION REQUIREMENTS

Students may enter the College of Business Administration from Junior Division or from other divisions of the University, or by transfer from another accredited college or university. Admission to the College of Business Administration requires (1) completion of English 1002 and 2002 with a grade of at least “C” in each; (2) completion of the pre-business core, consisting of Mathematics 1431 and 1435 (1550 and 1552 in QBA), Computer Science 1248 or 1250, Accounting 2001, and either 2021 or 2101, Economics 2010 and 2020, and QBA 2000, 2001, and 2100, with a grade-point average of 2.20 or better; and (3) completion of at least 60 semester hours of credit with a grade-point average of 2.20 (2.50 as of fall 1989) on all course work taken and on all course work taken at LSU. Students who have not met all the requirements stated above may petition the college for admission.

The college encourages qualified students to apply for early admission. Early admission will be granted to a student whose grade-point average is significantly higher than required by the college and who is making normal progress toward completion of the pre-business core (see the freshman and sophomore years of the curriculum in “General Business Administration” in this catalog). Under this provision, a student whose grade-point average on all course work taken and on all course work taken at LSU is at least 3.00 may enter after completion of at least 30 semester hours of credit. A student whose grade-point average on all course work taken and on all course work taken at LSU is at least 2.70 may enter after completion of at least 45 semester hours of credit.

Transfer credit acceptable for admission to the University shall be valid for admission to the college and for degree credit only to the extent to which it represents courses acceptable in the curricula of the college.

The college will not accept transfer credit for any course in which a grade lower than “C” has been received, unless the course was taken at a university within the LSU System. Credit will not be allowed for business courses completed at the lower-division level at other institutions that are offered at the junior or senior level in this college.

Readmission: Students who were not registered at LSU for the preceding regular semester must file a formal application for readmission. Readmission to the College of Business Administration is not automatic. Readmission requirements are the same as those for students from Junior Division.

DEGREE REQUIREMENTS OF THE COLLEGE

The degree of Bachelor of Science will be conferred on students who complete one of the approved curricula with (1) a 2.00 or better grade-point average on all work taken; and (2) a 2.00 or better grade-point average on all business administration courses taken numbered 2000 or above. The above requirements apply both to the total course work taken and to LSU course work separately.

The last 30 semester hours presented for the degree must be taken in residence in the College of Business Administration on the LSU campus.

The student must complete 131 semester hours in accordance with the following regulations.

Academic Work, 131 Semester Hours

All 3000/4000 level business courses, except Accounting 3021, are restricted to students who have completed sixty hours of college-level course work.

General Education Requirements

1. English Composition and Speech (12 hrs.): English 1002, 1003, or 1005 with a grade of “C” or better; English 2002 with a grade of “C” or better; Speech Communication 1061
or 1062; and Speech Communication 2010, 2061, 2064, 4101, 4113, or 4114. Students with a 3.00 average in any curriculum, whose native language is English and who definitely expect to do graduate work following completion of the B.S. degree, may substitute a foreign language for English with the approval of their faculty advisor and the dean of the college.

If a substitution is made, a minimum of two courses in the same language is required. English 1001 may be used as an elective.

2. **Mathematics and Computer Science (9-13 hrs.):** Computer Science 1248 or 1250; and Mathematics 1431 and 1435, or 1550 and 1552. Mathematics 1550 may be substituted for 1431 and Mathematics 2085 may be substituted for 1435. Students should refer to their chosen curriculum to determine the specific mathematics and computer science requirements. No student may receive more than nine semester hours of credit in mathematics courses numbered below 1550. Mathematics 1021 may be used as an elective.

3. **Natural Science (9 hrs.):** See those courses listed as general education natural sciences courses.


5. **Arts (3 hrs.):** See those courses listed as general education arts courses.

6. **Humanities (9 hrs.):** See those courses listed as general education humanities courses.

7. **Social Sciences (6 hrs.):** See those courses listed as general education social sciences courses.

8. Not more than 39 semester hours of required and elective courses numbered below 2000 may be applied toward a degree from this college.

**Required Work in the College of Business Administration**

1. **Tool Areas (24 hrs.):** Accounting 2001, and 2021 or 2101; Economics 2035; Finance 3201; QBA 2000, 2001, 2100.

2. **Functional Areas (9 hrs.):** Finance 3715, Marketing 3401, and QBA 3115.

3. **General (6 hrs.):** Management 3159 and 3190.

4. **Major Field (24 hrs.):** Courses numbered 3000 or above, see curricular requirements.

5. **Approved Business Electives (6 hrs.):** Courses numbered 3000 or above.

**Elective Options**

Students may choose any degree credit courses offered by the University consistent with their specific degree requirements. However, no more than six hours may be selected from ROTC, HPRD activity courses, band, chorus, or music skills courses. Up to six semester hours in ROTC may be used as electives in all business curricula. Additional courses beyond the six hours in ROTC, HPRD activity courses, band, chorus, or music skills may not be counted toward making up deficiencies in the grade-point average.

**PASS-FAIL OPTION**

The pass-fail grading option is limited by the college to courses which are electives in a student’s specific degree program.

**CORRESPONDENCE AND EXTENSION CREDIT**

Special restrictions apply to correspondence and extension credit being used for degree credit. Students must have the permission of the dean of the college prior to scheduling correspondence or extension course work.

Students who are taking classroom courses at the University are not approved for correspondence study. Students not enrolled in classroom courses during a given semester can be approved for courses by correspondence through the Dean of the College of Business Administration (3304 CEBA) and may enroll at the Division of Continuing Education (166 Pleasant Hall; 388-3171). Enrollment in correspondence and extension courses must be completed by the final date for adding courses for any semester, including summer term.

The deadline for completion of all correspondence course work is the last day of final examinations for the semester during which the student is enrolled. As a maximum of three lessons per week can be submitted in a course, the time required to submit all of the lessons in a three-credit correspondence course is at least six weeks. Students who have not completed all of the requirements by the deadline will have their enrollment automatically terminated. *No extensions will be granted under any circumstances.*

Correspondence study is restricted to elective courses. No more than twelve semester hours of correspondence and extension credit may be applied toward the degree requirements of the college.
A student must complete all correspondence study before registering to receive a degree and no degree may be awarded during a semester in which a student is enrolled in correspondence study.

**INDEPENDENT STUDY COURSES**

If an independent study course is taken within the college, a written description of the project to be undertaken in the course must be submitted to the department chairman and dean for approval, prior to registration in the course.

**STUDENT RESPONSIBILITY**

Students in this college bear final responsibility for selection of their academic programs and adherence to all published regulations and requirements of the college and the University. Each student must see a counselor for a final degree checkout during the semester prior to the semester in which the degree is to be awarded.

**GRADUATION REQUIREMENTS**

Prior to graduation, each student will complete a personal data form and return it to the dean’s office.

Students who have completed courses at another college or university must have an official transcript covering this work on file in the Office of Student Records and Registration before registering for the degree.

**REQUIREMENTS FOR A SECOND BACHELOR’S DEGREE**

To receive a second bachelor’s degree from this college, students must complete—with a grade-point average of 2.50 or better—all stated requirements for a B.S. degree in the College of Business Administration not previously met. In all cases, however, the program of studies must comprise a minimum of 30 semester hours of work beyond that presented for the first degree and at least two semesters in residence in the college. Admission requirements to the college for the purpose of earning a second bachelor’s degree, for students not currently admitted, are the same as for students seeking the first bachelor’s degree.

**NONMATRICULATED STATUS**

To be admitted to the college on a nonmatriculated basis, students must have earned a bachelor’s degree and must meet the same admission requirements stated for students seeking the bachelor’s degree. Credit earned after being admitted to the college may be applied toward a second bachelor’s degree consistent with the requirements for the second degree.

**GRADUATE PROGRAMS**

Master’s and doctoral degrees are offered through the Graduate School by the various departments within the college. In addition, the following specialized master’s degrees are offered. For information about these degrees consult the *Graduate School Catalog*.

**Master of Business Administration**

The combination of a general or a technical undergraduate education with a graduate-level Master of Business Administration degree is today a widely recognized avenue to opportunity and success in the business world. To this end, the college offers an M.B.A. program for students who aspire to management careers in business and industry. The program is open to those who hold degrees in arts and sciences or specialized fields such as engineering, geology, chemistry, physics, or agriculture, as well as to students with undergraduate degrees in business administration.
Master of Public Administration

The Departments of Accounting, Economics, Management, Political Science, and Quantitative Business Analysis and the Hebert Law Center cooperate in this interdepartmental program.

PLACEMENT SERVICE

The University maintains a professionally staffed placement service located on the first floor of the Ceba building. Interviews are conducted throughout the year. The major concern of the placement office is to assist both students and alumni in finding positions consistent with their career objectives.

Divisions, Departments, and Curricula

GOVERNMENTAL SERVICES INSTITUTE

HEAD: Vilas
OFFICE: 385 Pleasant Hall
TELEPHONE: (504) 388-6746

Through its comprehensive program of training, services, and research, this institute provides state and local governments with the expertise necessary to solve governmental problems. Services range from seminars and in-service training programs to consultation and research on specific problems. The institute also develops and publishes manuals on various governmental procedures, such as personnel administration, management, organizational development, and job evaluation and pay. These services are provided statewide by institute staff and university professors.

The institute has been designated as the sponsoring agency for two training and educational programs authorized by the 1979 Louisiana Legislature. The Comprehensive Public Training Program is designed to increase the skills and knowledge of all state employees and non-elective officials. The Certified Public Manager Program is open to persons holding a management position in state government or nominated by their supervisors for promotion to such a position. The CPM curriculum includes 216 instructional hours in management and 60 hours in elective courses. On completion of the program, participants are awarded the designation of Certified Public Manager.

GENERAL BUSINESS ADMINISTRATION

CURRICULUM IN GENERAL BUSINESS ADMINISTRATION
TOTAL SEM. HRS.: 131

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Computer Science 1248</td>
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</tr>
<tr>
<td>English 1002 or 1003</td>
<td>3</td>
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<tr>
<td>Mathematics 1431, 1435</td>
<td>6</td>
</tr>
<tr>
<td>General education natural sciences sequence</td>
<td>6</td>
</tr>
<tr>
<td>Speech Communication 1061 or 1062</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities courses</td>
<td>6</td>
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<tr>
<td>General education social sciences course</td>
<td>3</td>
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<table>
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<tr>
<th>SEM. HRS.</th>
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<td>33</td>
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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Accounting 2001, 2101**</td>
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<td>QBA 2000, 2001, 2100</td>
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<tr>
<td>General education humanities course</td>
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</tr>
<tr>
<td>General education natural sciences course (physical/biological, not same as sequence)</td>
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<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.</th>
</tr>
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<tbody>
<tr>
<td>36</td>
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*See footnotes on next page.
### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Economics 2035</td>
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<tr>
<td>Finance 3201, 3715</td>
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<td>Management 3159</td>
<td>3</td>
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<tr>
<td>QBA 3115</td>
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<tr>
<td>Marketing 3401</td>
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<tr>
<td>Approved business administration electives (3000/4000 level)**</td>
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<td>Approved elective*</td>
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### SENIOR YEAR

<table>
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<tr>
<th>Course</th>
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<td>Management 3190</td>
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<tr>
<td>Approved business administration electives (3000/4000 level)</td>
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<td>Approved electives*</td>
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<td></td>
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</tbody>
</table>

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*If ROTC is elected, see "Degree Requirements of the College."


***To be selected from the offerings of at least four of the following departments: Accounting, Economics, Finance, Management, Marketing, and Quantitative Business Analysis.

****Course may be chosen from Speech Communication 2010, 2061, 2064, 4101, and 4114.

### CURRICULUM IN GENERAL BUSINESS ADMINISTRATION (OPTION IN PRE-LAW)

**TOTAL SEM. HRS.: 131**

**For the first two years, see the General Business Administration curriculum.**

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Economics 2035</td>
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<td>Finance 3201, 3715</td>
<td>6</td>
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<tr>
<td>History 2071</td>
<td>3</td>
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<td>Management 3159</td>
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<td>Marketing 3401</td>
<td>3</td>
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<td>Political Science 2051</td>
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<td>QBA 3115</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Finance 3826</td>
<td>3</td>
</tr>
<tr>
<td>Management 3190</td>
<td>3</td>
</tr>
<tr>
<td>Management 4164 or 4167</td>
<td>3</td>
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<tr>
<td>Business electives (select from Accounting 3201; Finance 3202, 3351, 3440; and other courses with approval of advisor)</td>
<td>15</td>
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<tr>
<td>Approved elective</td>
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<tr>
<td>Approved business administration electives</td>
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<tr>
<td></td>
<td>33</td>
</tr>
</tbody>
</table>

### DEPARTMENT OF ACCOUNTING

**CHAIRMAN:** Brenner, Accounting Alumni Professor  
**OFFICE:** 3101 Ceba Building  
**TELEPHONE:** (504) 388-6202

**ERNST & WHINNEY PROFESSOR OF ACCOUNTING:** Orbach

**PROFESSORS:** Brenner, Hartman, McCameron

**ASSOCIATE PROFESSORS:** Apostolou, Curatola, Kyle, Mister, Sumners

**ASSISTANT PROFESSORS:** Agacer, Cassidy, Friedberg, Harper, Hoffman, Langemeier, Okopny,  
Senteney, Shelton, Strawser

**INSTRUCTORS:** Anderson, Armentor, Irwin, Miedaner, Wade

### CURRICULUM IN ACCOUNTING

**TOTAL SEM. HRS.: 131**

Accounting majors may transfer accounting course credits only from schools accredited by the American Assembly of Collegiate Schools of Business. No more than 12 credit hours in accounting may be transferred. Students are required to earn at least a grade of "C" in each accounting course taken.
### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<td>Mathematics 1431, 1435</td>
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<tr>
<td>General education sciences sequence</td>
<td>6</td>
</tr>
<tr>
<td>Speech Communication 1061 or 1062</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
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<td>General education humanities courses</td>
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Total SEM. HRS.: 33

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>Accounting 3021, 3023</td>
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<td>Accounting 3121 or 3221</td>
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<tr>
<td>Economics 2035</td>
<td>3</td>
</tr>
<tr>
<td>Finance 3201, 3203, 3715</td>
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</tr>
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<td>Management 3159</td>
<td>3</td>
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<td>Marketing 3401</td>
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<tr>
<td>QBA 3115</td>
<td>3</td>
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<tr>
<td>Approved elective</td>
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Total SEM. HRS.: 33

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Accounting 3121 or 3221</td>
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<td>Accounting 3222, 4022, 4321</td>
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<tr>
<td>Management 3190</td>
<td>3</td>
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<td>Approved business administration elective</td>
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</table>

Total SEM. HRS.: 29

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**DEPARTMENT OF ECONOMICS**

**CHAIRMAN:** Scott, Professor  
**ALUMNI PROFESSOR:** Daly  
**LSU FOUNDATION PROFESSOR OF ECONOMICS:** Smyth  
**PROFESSORS:** Beard, Campbell, Culbertson, Farber, Flammang, Hill, Johnson, Jones, Moore, Rice, Richardson, Scott, Yu  
**ASSOCIATE PROFESSORS:** Dahl, Lunn, Martin, McMillin, Newman  
**ASSISTANT PROFESSORS:** Koray, Lastrapes, Lin, Turnbull, Yucel  
**INSTRUCTOR:** Daniel  

**OFFICE:** 2107 CEBA Building  
**TELEPHONE:** (504) 388-5211

**CURRICULUM IN ECONOMICS**  
**TOTAL SEM. HRS.: 131**

*For the first two years, see the General Business Administration curriculum.*

### JUNIOR YEAR

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<thead>
<tr>
<th>Course</th>
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<tr>
<td>Economics 2035, 4720</td>
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<td>Finance 3201, 3715</td>
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<td>Management 3159</td>
<td>3</td>
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<tr>
<td>Marketing 3401</td>
<td>3</td>
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<td>QBA 3115</td>
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<tr>
<td>Economics electives</td>
<td>9</td>
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<td>Approved elective</td>
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Total SEM. HRS.: 33

### SENIOR YEAR

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<tr>
<td>Approved business administration electives</td>
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Total SEM. HRS.: 29
CURRICULUM IN INTERNATIONAL TRADE AND FINANCE
TOTAL SEM. HRS.: 131

For the first two years, see the General Business Administration curriculum.

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Economics 2035, 4030, 4020, 4720</td>
<td>12</td>
<td>Economics 4520, 4550</td>
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<tr>
<td>Finance 3201, 3715</td>
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<td>Management 3190, 4140</td>
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<tr>
<td>Management 3159</td>
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<td>Marketing 4443</td>
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<td>Marketing 3401</td>
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<td>Approved electives</td>
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<td>Political Science 2053</td>
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<td>Approved business administration electives</td>
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<tr>
<td>QBA 3115</td>
<td>3</td>
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DEPARTMENT OF FINANCE

CHAIRMAN: Booth, Professor

LLOYD F. COLLETTE ENDOWED CHAIR OF INSURANCE AND PROFESSOR OF FINANCIAL SERVICES: Frankfurter
LOUISIANA BANKERS’ ASSOCIATION CHAIR OF BANKING: Staats
LOUISIANA NATIONAL BANK/CHUCK MCCOY DISTINGUISHED PROFESSORSHIP IN FINANCIAL INSTITUTIONS: Slavin
LOUISIANA REAL ESTATE COMMISSION ENDOWED CHAIR OF REAL ESTATE: Sirmans
ALUMNI PROFESSOR: Davidson
PROFESSORS: Booth, Crary, Henry, Schroeder
ASSOCIATE PROFESSORS: Lane, Shilling, Wansley
ASSISTANT PROFESSORS: Boyle, Jameson, Kemp, Lamoureux, Leung, Sanger
INSTRUCTORS: Breaux, Simon

CURRICULUM IN COMMERCIAL BANKING
TOTAL SEM. HRS.: 131

For the first two years, see the General Business Administration curriculum.

<table>
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<td>3</td>
<td>Management 3190</td>
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<td>Finance 3201, 3715, 3826</td>
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<td>Major field electives to be selected from courses in finance, accounting, and/or economics, except Economics 3310, 4010, and Accounting 2101</td>
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<td>Management 3159</td>
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<td>Approved business administration electives</td>
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<td>Marketing 3401</td>
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<td>QBA 3115</td>
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CURRICULUM IN FINANCE
TOTAL SEM. HRS.: 131

For the first two years, see the General Business Administration curriculum.

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<td>Management 3190</td>
<td>3</td>
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<tr>
<td>Finance 3201, 3715, 3826</td>
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<td>Major field electives to be selected from courses in finance, accounting and/or economics, except Economics 3310, 4010, and Accounting 2101</td>
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<tr>
<td>Management 3159</td>
<td>3</td>
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<tr>
<td>Marketing 3401</td>
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<td>Approved elective</td>
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<tr>
<td>QBA 3115</td>
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CURRICULUM IN REAL ESTATE
TOTAL SEM. HRS.: 131

For the first two years, see the General Business Administration curriculum.

<table>
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<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Economics 2035</td>
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<td>Finance 3201, 3351, 3715</td>
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<td>QBA 3115</td>
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CURRICULUM IN RISK AND INSURANCE
TOTAL SEM. HRS.: 131

For the first two years, see the General Business Administration curriculum.

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<td>Finance 3201, 3440, 3715, 3826</td>
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<td>Marketing 3401</td>
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<td>QBA 3115</td>
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DEPARTMENT OF MANAGEMENT

CHAIRMAN: Kedia, Associate Professor

RALPH AND KACOO OLINDE DISTINGUISHED PROFESSOR

OF MANAGEMENT: Bedeian

PROFESSORS: Fletcher, Justis, Keller, McCann, Reddoch

ASSOCIATE PROFESSORS: Griffeth, Kedia, Werbel

ASSISTANT PROFESSORS: Balkin, Castrogiovanni, Chan, Chinta, Farh, Hames, Kalwa, S. White

CURRICULUM IN MANAGEMENT
TOTAL SEM. HRS.: 131

For the first two years, see the General Business Administration curriculum.

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
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<tr>
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<tr>
<td>Finance 3201, 3715</td>
<td>6</td>
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<tr>
<td>Management 3126, 3159, 4164, 4167</td>
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<td>Marketing 3401</td>
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CURRICULUM IN PETROLEUM LAND MANAGEMENT
TOTAL SEM. HRS.: 132

If ROTC is elected, see "Degree Requirements of the College."

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<tbody>
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<td>Mathematics 1431, 1435</td>
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<td>Speech Communication 1061 or 1062</td>
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<tr>
<td>General education arts course</td>
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<tr>
<td>General education humanities course</td>
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<td>Management 3000, 3159</td>
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<tr>
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<td>English 2002</td>
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<td>Economics 2010, 2020</td>
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<td>Approved speech elective</td>
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<td>Management 3065</td>
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<td>Petroleum Engineering 2020</td>
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<tr>
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<td>QBA 2000, 2001, 2100</td>
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<td><strong>Total</strong></td>
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<tr>
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<td>Management 3193 or 4140</td>
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<td>Management 4164 or 4167</td>
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<td>Petroleum Engineering 3025</td>
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DEPARTMENT OF MARKETING

CHAIRMAN: Hair, Professor

PICCADILLY, INC., BUSINESS PARTNERSHIP PROFESSOR: Darden

PROFESSOR: Hair

ASSOCIATE PROFESSORS: Black, Sherrell

ASSISTANT PROFESSORS: Burton, Johnston, Lichtenstein, McKee, Netemeyer, Olsen, Ridgway

CURRICULUM IN MARKETING
TOTAL SEM. HRS.: 131

For the first two years, see the General Business Administration curriculum.

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
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<tr>
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<td>Finance 3201, 3715</td>
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<tr>
<td>Management 3159</td>
<td>3</td>
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<tr>
<td>Marketing 3401, 3411, 3413</td>
<td>9</td>
</tr>
<tr>
<td>QBA 3115</td>
<td>3</td>
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<td>Approved elective</td>
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<tr>
<td>Marketing elective</td>
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<td>Marketing elective (approved by department)</td>
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<td><strong>Total</strong></td>
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<table>
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<tr>
<td>Approved electives</td>
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PUBLIC ADMINISTRATION INSTITUTE

DIRECTOR: Richardson, Professor

PROFESSOR: Richardson

ASSOCIATE PROFESSORS: Hildreth, Rice
The Public Administration Institute provides an interdepartmental administrative framework for the study of public administration, public management, and public policy at LSU. Academic programs, research activities, and public service endeavors are included in the mission of this institute.

Academic programs include the Master of Public Administration, as well as undergraduate programs in the College of Business Administration and the College of Arts and Sciences. Research activities include organizing major studies of importance to state and local governments. Public service activities are organized and implemented through the Governmental Services Institute.

CURRICULUM IN BUSINESS AND PUBLIC ADMINISTRATION

For the first two years, see the General Business Administration curriculum.

TOTAL SEM. HRS.: 131

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<td>Finance 3201, 3715</td>
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<th>SEM. HRS.</th>
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<td>Approved business administration electives</td>
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<td><strong>Total</strong></td>
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DEPARTMENT OF QUANTITATIVE BUSINESS ANALYSIS

CHAIRMAN: Peters, Professor

PROFESSORS: Burford, Hargrave, Peters, Stanfel, Thompson

ASSOCIATE PROFESSORS: Looney, Rinks, Schneider, Tang, Williams, Willis

ASSISTANT PROFESSORS: Chen, Murthy

INSTRUCTORS: Badeaux, Booth, Chang, Curtis, Fry, Lanier, Park, Ross

The curriculum in quantitative business analysis has three options. The computer science option deals with the analysis, design, and implementation of information systems to support the operations and management functions of an organization. The management science option is oriented toward the application of systematic and rational techniques to solve a variety of managerial problems. This option provides an excellent foundation for students who anticipate doing graduate work in business or quantitative methods. The operations management option is concerned with the efficient production of goods and delivery of services.

CURRICULUM IN QUANTITATIVE BUSINESS ANALYSIS

(COMPUTER SCIENCE OPTION)

TOTAL SEM. HRS.: 131

If ROTC is selected, see "Degree Requirements of the College."

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<td>Mathematics 1550, 1552</td>
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<td>General education humanities course</td>
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<tr>
<td>Computer Science 2270</td>
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<td>English 2002</td>
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<td>Mathematics 2085</td>
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### CURRICULUM IN QUANTITATIVE BUSINESS ANALYSIS (MANAGEMENT SCIENCE OPTION)

**TOTAL SEM. HRS.: 131**

**If ROTC is elected, see "Degree Requirements of the College."**

<table>
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<tr>
<td>Mathematics 1550, 1552</td>
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<tr>
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<tr>
<td>Speech Communication 1061 or 1062</td>
<td>3</td>
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<tr>
<td>General education arts course</td>
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<tr>
<td>General education humanities course</td>
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<td>Elective</td>
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<tr>
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<td>Management 3159</td>
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### CURRICULUM IN QUANTITATIVE BUSINESS ANALYSIS (OPERATIONS MANAGEMENT OPTION)

**TOTAL SEM. HRS.: 131**

**If ROTC is elected, see "Degree Requirements of the College."**

<table>
<thead>
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<td>Speech Communication 1061 or 1062</td>
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<td>Mathematics 1550, 1552</td>
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<td>Accounting 2021 or 2101</td>
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<tr>
<td>Mathematics 2085</td>
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<tr>
<td>QBA 2000, 2001, 2100</td>
<td>9</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>33</strong></td>
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</table>

<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management 3190</td>
<td>3</td>
</tr>
<tr>
<td>QBA 4000, 4501</td>
<td>6</td>
</tr>
<tr>
<td>General education social sciences courses</td>
<td>6</td>
</tr>
<tr>
<td>General education natural sciences course (physical/biological, not same as sequence)</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Business Analysis electives (approved by department)</td>
<td>6</td>
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<tr>
<td>Approved business administration electives</td>
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<td><strong>TOTAL</strong></td>
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<td>JUNIOR YEAR</td>
<td>SEM. HRS.</td>
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<tr>
<td>-------------</td>
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<td>Economics 2035</td>
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<td>Finance 3201, 3715</td>
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<td>Management 3159</td>
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<td>Marketing 3401</td>
<td>3</td>
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<td>OBA 3000, 3115, 4020, 4501</td>
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<tr>
<td>General education humanities course</td>
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</tr>
<tr>
<td>General education natural sciences course (physical/biological, not same as sequence)</td>
<td>3</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>
Division of Continuing Education

FRITZ A. McCAMERON, Dean
DANIEL C. WALSH, JR., Associate Dean
WINTON W. HYMEL, Assistant Dean
166 Pleasant Hall
(504) 388-3162

The Division of Continuing Education, an academic unit established in 1924, provides educational opportunities for adults and other nontraditional students. In addition to its regular staff, members of the University faculty and adjunct teachers are appointed as instructors. Each regular and adjunct faculty member who engages in continuing education services is approved by the department head, the academic dean concerned, and the dean of the Division of Continuing Education. Continuing education teachers assigned to graduate courses meet graduate faculty requirements and are approved on special appointments by the Vice-Chancellor for Research and the Vice-Chancellor for Academic Affairs.

In cooperation with the various schools and colleges of the University, the division extends the resources of LSU to the people of the state, region, nation, and world. Formal university-level instruction is provided through off-campus courses and independent study. Credit courses taught off campus are offered in accordance with guidelines of the Board of Regents. In addition to formal class instruction, the division conducts a variety of other higher education adult services.

THE CONTINUING EDUCATION CENTER

Quality facilities and services make the LSU Continuing Education Center one of the outstanding centers of its kind in the nation. The center is operated primarily for those who wish to spend brief periods of time in serious and intensive study of problems related to their professional, civic, and cultural interests. It houses a large auditorium with a seating capacity of 250, two medium-sized auditoriums with seating capacities of 80 each, and ten smaller conference rooms. In addition,
Council practice rehabilitation related University teachers, OFFICE modations, Pleasant Rouge, the Program needs plans educational, times ENGLISH comprehensive Rehabilitation Students in of FIREMEN off-campus not University, continuing education instruction. Office fee residence. 196 The The ELOP Noncredit program, the Office of Continuing Education provides instruction to students who are not Louisiana citizens. Applications to the English Language and Orientation Program may be obtained by contacting the Director, English Language and Orientation Program, 397 Pleasant Hall, Louisiana State University, Baton Rouge, LA 70803-1510 or by calling (504) 388-5642. Cable: ELOPLSU, Baton Rouge, LA USA. Telex: 200657 ELOP UR.

DEPARTMENT OF EXTRAMURAL TEACHING

The LSU extramural teaching program is designed to provide educational opportunities for persons not in residence. Many of the courses listed in this catalog are available through the program to off-campus students. Every effort is made by the Division of Continuing Education and cooperating colleges and schools in the LSU System, to provide needed services when requested. Louisiana citizens are urged to explore with the Department of Extramural Teaching the many possibilities for off-campus instruction. Representatives of the division will meet with and advise groups seeking off-campus continuing education services.

FIREMEN TRAINING PROGRAM

Instructors in five regions of the state and others assigned to the 51-acre Training Center south of the LSU campus, provide in-service training through the Fireman Training Program. Activities
include courses taught in the various communities of the state. A series of specialized classes taught
at the Firemen Training Center meets in-service needs by incorporating the national standards for
both paid and volunteer firefighters. In addition, there is an Industrial Program with six instructors
offering specialized, OSHA-approved industrial training courses for individuals and fire brigades,
both at the Training Center and at individual industrial organizations. The Firemen Training Program
is also active in national certification of firefighters.

The Training Center Media Service distributes educational materials on the prevention of fires
and fire casualties. A correspondence study course for firefighters, with testing procedures conducted
by the Firemen Training Program, is available. The staff also participates in the training of students
enrolled in the fire science associate degree program at LSU-Eunice.

GIFTED AND TALENTED PROGRAM

Numerous non-credit minicourses are offered year-round for gifted and high-achieving students
in grades 4-12. These courses enable bright youngsters to pursue accelerated studies in such
traditional disciplines as mathematics and writing, as well as subjects not usually taught in local
schools, such as astronomy, genetic engineering, finance, mythology, veterinary medicine, and
sculpture. A resident program is conducted during the summer for students from outside the Baton
Rouge area. Instruction is provided by University faculty and staff and highly qualified secondary
school teachers.

OFFICE OF INDEPENDENT STUDY

Correspondence study courses in both college and high school subjects are taught by members
of the regular University faculty. Enrollment in a correspondence course may be made at any time.

College-level courses are substantially the same in scope and content as those taught on campus.
They are of particular interest to high school graduates who are unable to enroll immediately for
residence credit, to college students temporarily out of school, to adults who seek personal benefit
from supervised study, and to teachers who are working toward certification.

High school instruction by correspondence offers a person who has not finished high school a
program of study that can be followed at home. High school students can enrich their study programs
by enrolling in correspondence courses which the local school is unable to offer.

Further information concerning correspondence study courses, requirements, and opportunities
may be obtained from the Independent Study by Correspondence Bulletin which is available on
request from the Office of Independent Study.

LAW ENFORCEMENT TRAINING PROGRAM

In-service training for law enforcement personnel is provided through the Law Enforcement
Training Program. The Basic Training Academy holds four 6-week courses, the specialized Juvenile
Officers School holds one 5-week course, and the Law Enforcement Institute holds two 12-week
courses each year on the LSU campus. The Field In-Service Training School is held in various
communities of the state on an extension-class basis. Specialized schools are held both on- and
off-campus as the need arises.

This training program is designed to provide officers with the most current information available
from experts in all fields of law enforcement and related areas. Agents of the Federal Bureau of
Investigation, judges, district attorneys, sheriffs, state and municipal officers, and other public
officials assist with the training.

LOUISIANA COUNCIL ON ECONOMIC EDUCATION

The Louisiana Council on Economic Education is a nonprofit organization dedicated to improving
the understanding of economics among the citizens of Louisiana. The Council conducts workshops
on teaching strategies and materials for elementary and secondary school teachers, gives or lends
printed and audio-visual materials, works with school systems that are committed to the integration
of economics into the K-12 curricula as members of the Developmental Economic Education
Program, and sponsors an awards program for teachers who develop and implement innovative
lessons.
SENIOR COLLEGE AT ALEXANDRIA

The University offers the last two years of bachelor's programs in general business administration, elementary education, and general studies on the campus of LSU at Alexandria (LSUA). Thus, students may complete all requirements for their bachelor's degree and graduate from LSU while maintaining physical attendance on the LSUA campus. Additional details of the program may be obtained by contacting the Coordinator of the Senior College at LSUA or the Dean of the Division of Continuing Education at LSU.

SHORT COURSES AND CONFERENCES

Short Courses and Conferences, a department of the Division of Continuing Education located in Pleasant Hall, offers short-term, intensive training in a wide variety of professional and leisure areas. Courses, conferences, workshops, seminars, and institutes are conducted generally as non-credit offerings (no tests/grades involved). Many of the short courses are held in the evenings and on weekends, so they can fit into a busy student’s schedule.

Of particular interest to students are short courses on a) computers, including “hands on training” in word processing, computer graphics, and programming; b) speed reading; c) career decision making; d) health and fitness; e) preparation for the ACT, GRE, and NTE examinations; and f) interdisciplinary courses in the humanities.

Professional conferences, seminars, workshops and institutes organized by this department attract a wide range of international participants, including leading authorities in business and industry. Subjects for these programs range from highly technical issues to broad social and economic questions. In some cases, an annual institute or seminar is offered to provide systematic and continuous study of the problems of a particular group.

For instruction, the department draws upon resources from both the University and the community. The Division of Continuing Education coordinates all activities, assists in program planning, registers participants, collects fees, makes arrangements for all physical facilities, and offers many other services needed for conference activities.

ASBESTOS TRAINING CENTER

The LSU Asbestos Training Center offers two asbestos training courses which are state approved for certification and EPA AHERA approved training.

*The Supervision of Asbestos Abatement Projects* trains individuals to set up, perform, or supervise abatement work. More than 20 topics are presented in a sequence concerning the actual abatement process. Lectures and demonstrations are presented by speakers from the asbestos industry and regulatory agencies, and are accompanied by an extensive notebook, handouts, and several review sessions.

*The Asbestos Abatement Worker Training Program* trains individuals who are now or expect to be engaged in the actual removal of asbestos. The objective of the course is to outline and illustrate the basic considerations and procedures used in performing asbestos removal with emphasis given to worker respiratory protection.

PARALEGAL STUDIES INSTITUTE

The Paralegal Studies Institute is an outgrowth of the Division of Continuing Education's paralegal studies program established in September, 1982, in response to the demand for well-trained paralegal professionals.

The Institute offers continuing professional education for practicing paralegals and a certificate program for entry level legal assistants. The non-credit program accommodates students interested in receiving a general paralegal education. The Institute also serves as the central training center for the entire legal team, with classes and seminars for attorneys on paralegal usage and office computerization, as well as courses sponsored by the National Association of Legal Secretaries. Special features of the program include professional internships, placement services for graduates, and academic and career counseling for students. Courses are taught by attorneys and paralegal professionals from law firms, government agencies, major corporations, and law schools in the Greater Baton Rouge area.
The College of Design was created to bring together the disciplines of design and visual arts which focus on the development of the built environment. Faculty and students are concerned with eminent scholarship and excellence in art, design, and research. The college offers professional education in accredited programs in the following areas: architecture, art, interior design, and landscape architecture. Art programs include graphic design, sculpture, printmaking, painting and drawing, and crafts. Study in each of these disciplines leads to a professional degree at the bachelor’s level. The Master of Fine Arts, the Master of Landscape Architecture, and the Master of Science in Architecture degrees are offered through the Graduate School. The schools within the college, the curricula which they offer, and the degrees to which these curricula lead are shown in the following chart.
Beyond obtaining competence in a design profession or one of the visual arts, the student is expected to acquire a liberal education and to maintain high levels of performance in the humanities and social, physical, and natural sciences.

Close association of the schools within the college offers special opportunities for interdisciplinary understanding. A computer-aided design and information system, which supports all programs in the college, provides additional opportunity for interdisciplinary study. To further enrich the total educational experience, individual schools sponsor exhibitions, field trips, and lectures in their areas of interest.

ADMISSION REQUIREMENTS

Students may enter the college from Junior Division, by transfer from another division of LSU, or by transfer from another approved college or university. However, it must be noted that the College of Design has a policy of selective admission presently applied to the programs in architecture, graphic design, interior design, and landscape architecture. In the future, selective admission may be extended to other areas. Therefore, students seeking admission to the college should contact the dean’s office to ascertain the admission requirements of that particular program. Other requirements for entering the college are as follows:

From Junior Division: Students must have (1) completed a minimum of 24 semester hours, with a 2.00 gpa on all work taken, and (2) earned grades of "C" or better in all courses in the college taken for degree credit.

Students wishing to enter a program in the college for which there is a selective admission requirement must meet one of the following additional requirements:

1. before midterm of the spring semester (for fall admission), submit to the appropriate school or program office a letter of application accompanied by ACT profile and a transcript or grade reports of college work. Applicants will be called for counseling sessions after midterm; the successful candidates will be notified by the end of the freshman year, or

2. request conditional admission to the college pending completion of the selective admission requirements of the curriculum.

By Transfer: Transfer credits acceptable for admission to the University will be valid for degree credit in the college only if they represent courses acceptable in the college’s curricula. Students who expect to receive transfer credit for studio courses in any of the schools may be required to submit examples of their work. Students seeking to transfer into the college should submit their application on or before June 1 in order to be considered for admission in the fall semester. In order to enter the college in good standing, a transfer student must have earned a minimum of 24 semester hours of credit with a gpa of 2.00 or higher where required to meet school entrance standards, meet all the specific scholastic requirements of the school concerned, and be accepted by that school.

By Conditional Admission: Within the framework of University regulations, and upon recommendation of a school or the college Committee on Admissions and Standards, the dean may grant conditional admission in special cases. Candidates for such admission should submit their requests to the office of the dean no later than two months prior to the anticipated date of registration.

DEGREE REQUIREMENTS OF THE COLLEGE

To qualify for a particular degree in the college, a student must meet the following requirements:

1. Complete 39 hours of general education courses as required by the University. These requirements are specified in a separate section of this catalog.

2. Complete a program of studies established by the school concerned and be approved for the degree by the faculty and the dean of the college.

3. In addition to having satisfied the admission requirements of the college and the school concerned, satisfactorily complete a curriculum with at least a 2.00 average in all courses required in the school and an overall 2.00 average.

4. Earn a specified number of credits while registered in the college, depending on the requirements stated for the individual by the school. In all cases, students transferring into the college must take at least the last 30 semester hours of academic credit while registered in the college. Twenty-four of these 30 semester hours must be in courses in the student’s major area.
5. Attain proficiency in English (see below).
6. In the final year, complete the check-out of all course work required for the degree. Details of check-out procedures are available in the dean’s office.

SPECIAL PROVISIONS OF THE COLLEGE

In addition to the scholastic regulations of the University, the college has established the provision that its students must maintain a 2.00 average in school courses required in the student’s curriculum. While students are urged to participate in sports, in considering qualification for degrees awarded by the college, some schools limit the number of hours for activity courses in the School of Health, Physical Education, Recreation, and Dance. Further, certain schools do not allow pass/fail grades for degree credit. Students should contact the dean’s office for information concerning these regulations.

In addition to the general attendance regulations of the University, the college’s policy provides that any student with more than three unexcused absences in any course is automatically placed on attendance probation.

PROFICIENCY IN ENGLISH

Students should refer to individual school sections to determine any special requirements which must be satisfied to be considered proficient in English.

REQUIREMENTS FOR A SECOND BACHELOR’S DEGREE

In order to qualify for a second degree in this college, a student must have completed requirements for the first degree with a 2.50 or higher gpa.

Second degrees may be awarded at the bachelor’s level in architecture, art, interior design, and landscape architecture. The program of studies for the second degree must include a minimum of 30 semester hours of work beyond requirements for the first degree, including any stated degree requirements not previously met. This program must be completed while the student is registered in the College of Design.

The program of studies for the second degree must have approval of the director or associate director of the school and the dean of the college. To obtain approval, the student should submit the program of studies and a petition for permission to begin work on a second degree to the dean’s office at least one month before the projected registration date.

GRADUATE PROGRAMS

Graduate programs offered by the schools of the college through the Graduate School lead to the degrees of Master of Science in Architecture, Master of Fine Arts, and Master of Landscape Architecture. For information concerning advanced degrees in the college, consult the Graduate School Catalog.

Schools and Curricula

Electives in the freshman and sophomore years may include a total of six semester hours of basic ROTC.

SCHOOL OF ARCHITECTURE

DIRECTOR: Theis, Professor
ALUMNI PROFESSOR EMERITUS: Heck
PROFESSORS: Oppermann, Shih, Smothers, Theis
ASSOCIATE PROFESSORS: Chowdhury, Glenny, Pitts, St. Martin, White

OFFICE: 136 Atkinson Hall
TELEPHONE: (504) 388-6885
The architect today is involved with a wide range of architectural problems extending from individual buildings, sites, interiors, and components, to large building complexes and city and regional planning. An architect may work as an individual practitioner, a collaborator, a consultant, or a member of an architectural firm. Preparation for these professional roles requires both formal education and practical experience followed by a professional examination and registration.

The School of Architecture, a member of the Association of Collegiate Schools of Architecture, is accredited by the National Architectural Accrediting Board. The accredited, five-year, undergraduate program leading to the Bachelor of Architecture degree includes the areas of management, humanities, technology, computer and graphic communications, and the synthesis of these areas through architectural design.

First-year architecture courses are open to any interested LSU student as space is available; however, admission into the professional program (years 2-5) is selective. Students must submit a formal application with a current transcript showing grade-point average and a copy of ACT scores to the School of Architecture office. The application period is January through June 1 for fall entry. Admission will be approved only for the fall semester of each academic year. Students who have successfully completed all first-year courses (or their equivalents) required in the architecture curriculum, and earned an overall GPA of 2.25 or higher by the end of the spring semester will be considered for selective admission into the professional program. Selection of a class not to exceed fifty-one students is made on a competitive basis in June after a review of all criteria. Students not admitted to the professional program by the School of Architecture will not be allowed to register for architecture courses other than those listed as first-year and/or general education courses.

Transfer students must first apply for admission to LSU. The application, if approved by the Office of Admissions, will be forwarded to the College of Design. When it is determined that the college entrance requirements are met, the application will be routed to the School of Architecture for evaluation and review. Transfer credit for architecture courses will be considered as substitutes for required architecture courses in the school’s curriculum only if these courses have been taken as part of an architecture program accredited by the National Architectural Accrediting Board (NAAB). Transfer students desiring entry into the second or third year of the professional program will be required to submit a portfolio for faculty evaluation. Transfer applicants will be considered for admission into the professional program January 1 through June 1 for fall entry only.

**CURRICULUM IN ARCHITECTURE**

**TOTAL SEM. HRS.: 170**

In the architecture curriculum, normal course progress is imperative. A student failing to complete any required course more than one semester later than the time designated in the curriculum is prohibited from further registration in architecture courses until the deficiency is corrected. Courses listed below are to be scheduled in the sequence in which they are listed. Thirty-nine hours of general education courses must be completed as required by the University.

It is recommended that students desiring entry into the professional program schedule ART 1847 and ARCH 1182 as electives during the first year of study.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
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<tbody>
<tr>
<td>Architecture 1051, 1153</td>
<td>6</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>Mathematics 1441</td>
<td>3</td>
</tr>
<tr>
<td>Physics 2001</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences courses</td>
<td>6</td>
</tr>
<tr>
<td>ROTC or approved electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
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<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
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<td>Architecture 2172, 2174, 3143, 3144, 3151, 3152, 3175, 3176</td>
<td>30</td>
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<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>Computer science elective</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>36</strong></td>
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<thead>
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<th>FIFTH YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Architecture 3160, 3218, 3318</td>
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<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
</tr>
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</table>
BACHELOR OF ARCHITECTURE—MASTER OF BUSINESS ADMINISTRATION PROGRAM

The School of Architecture offers a Bachelor of Architecture—Master of Business Administration program for students who qualify through a combination of grade-point average and score on the Graduate Management Admission Test (GMAT). The program permits a student to obtain the Bachelor of Architecture degree at the end of five years and the Master of Business Administration degree at the end of two additional semesters plus one summer term. A student who selects this program must take the GMAT during the fourth year of study in the School of Architecture. The Graduate Council has approved enrollment of fifth-year architecture students in 5000-level M.B.A. courses, provided they meet the following formula requirement: the product of the student's gpa for 140 semester hours times 200, plus the GMAT score, must be greater than, or equal to, 1100.

Following successful completion of the prescribed course of study for the first four years of the Bachelor of Architecture curriculum and the fifth-year courses listed below, the degree of Bachelor of Architecture will be awarded.

<table>
<thead>
<tr>
<th>FIFTH YEAR (1ST SEMESTER)</th>
<th>SEM. HRS.</th>
<th>FIFTH YEAR (2ND SEMESTER)</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Architecture 3216</td>
<td>6</td>
<td>Accounting 5001</td>
<td>3</td>
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<td>Economics 5700</td>
<td>3</td>
<td>Architecture 3316</td>
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<tr>
<td>Finance 5200</td>
<td>2</td>
<td>Economics 4720</td>
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<td>Management 5220</td>
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<td>QBA 5014</td>
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<td>14</td>
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<td>15</td>
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</tbody>
</table>

Following successful completion of the sixth-year courses listed below, the degree of Master of Business Administration will be awarded.

<table>
<thead>
<tr>
<th>SIXTH YEAR (SUMMER)</th>
<th>SEM. HRS.</th>
<th>SIXTH YEAR (1ST SEMESTER)</th>
<th>SEM. HRS.</th>
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</thead>
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<tr>
<td>Accounting 7101</td>
<td>3</td>
<td>Finance 7717</td>
<td>3</td>
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<td>Marketing 7711</td>
<td>3</td>
<td>Management 7268</td>
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<tr>
<td>Business administration elective</td>
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<td>QBA 7101</td>
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<td>Business administration elective</td>
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<table>
<thead>
<tr>
<th>SIXTH YEAR (2ND SEMESTER)</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management 7280</td>
<td>3</td>
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<tr>
<td>Business administration electives</td>
<td>9</td>
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<tr>
<td></td>
<td>12</td>
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</tbody>
</table>

INTERIOR DESIGN PROGRAM

ASSOCIATE DIRECTOR: Singer, Professor

PROFESSOR: Singer

ASSOCIATE PROFESSORS: Daugherty, Spencer, Wachob

INSTRUCTOR: Mathews

PART-TIME FACULTY: Avery, Gewalt, Hebert

The interior designer is involved with a wide range of design problems extending from interiors in the personal environment (such as residences) to complete public environments in institutions, commercial establishments, transportation facilities, and entertainment and recreation facilities. The interior designer’s competence must include design analysis, programming, and space planning. This must be coupled with an understanding of the relationship of interior design to all aspects of the environment through the professional disciplines of architecture and landscape architecture. Following an apprenticeship period, the interior design graduate can practice in firms specializing in commercial or contract interiors and/or residential design or in architectural firms offering interior design services.

The curriculum in interior design is accredited by the Foundation for Interior Design Education and Research. Admission into the professional program (years 2-4) is selective. Students desiring to enter the professional program must make formal application for admission during the spring semester prior to the start of their sophomore year in the major. The application process includes: (a) a formal letter of intent; (b) a transcript of all courses completed and a current grade-point average; and (c) a portfolio of work from all first-year design studio courses. Transfer students from other universities or programs will be considered for admission on the same basis prior to preregistration during the summer term.

Students must meet the following criteria prior to applying for the selective admissions process: (1) completion of or enrollment in Architecture 1153 or Art 1011, Architecture 1181 or Art 1847, Architecture 1182 and
Interior Design 1051; (2) an overall grade-point average of at least 2.25; and (3) an ACT composite score of at least 21.

Students who do not meet these criteria may apply for conditional admission on a space-available basis. Students who have not been admitted into the professional program in interior design will not be allowed to enroll in architecture or interior design courses above the freshman level. Specific questions concerning curricula and admission should be directed to the Interior Design Program office, 402 New Design Building.

Credit earned in two-year technical or terminal degree programs and programs which, when completed, result in an "Associate in Applied Sciences" diploma may be accepted for degree credit to the extent that the courses are equivalent to degree work in the Interior Design Program, as determined by the program director.

**Course Sequence:** Required major courses carrying the architecture and interior design prefixes are offered only the semester indicated in the catalog course description. Prerequisites are rigidly enforced.

**English Proficiency:** Students must obtain a grade of 'B' or better in English 1002 or a grade of 'C' or better in English 1003 or 1005. Students failing to do so will be required to complete satisfactorily the English Proficiency Examination or obtain a grade of 'C' or better in English 2002. This requirement also applies to students transferring into the college from another college or university. Students will not be permitted to proceed with the final year of studies until they have achieved proficiency in English.

**Grade Policy:** Students majoring in interior design must maintain a minimum grade-point average of 2.00 in the major and an overall grade-point average of 2.00. Students seeking to transfer to this major program will be subject to the same grade requirements.

**CURRICULUM IN INTERIOR DESIGN**

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.: 132</th>
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</thead>
<tbody>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
</tr>
<tr>
<td>Architecture 1153 or Art 1011</td>
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<tr>
<td>Architecture 1181 or Art 1847</td>
</tr>
<tr>
<td>Architecture 1182</td>
</tr>
<tr>
<td>English 1001, 1002</td>
</tr>
<tr>
<td>Interior Design 1051</td>
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<tr>
<td>Mathematics 1021</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
</tr>
<tr>
<td>General education social sciences course</td>
</tr>
<tr>
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<tr>
<td>Elective*</td>
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<table>
<thead>
<tr>
<th><strong>SOPHOMORE YEAR</strong></th>
<th><strong>SEM. HRS.</strong></th>
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</thead>
<tbody>
<tr>
<td>Architecture 2141, 2142, 2151, 2174, 2402</td>
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<td>Interior Design 2720, 2750, 2751</td>
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<tr>
<td>General education sciences courses</td>
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<tr>
<td>Art 1440, 1441, or 2470</td>
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<td><strong>TOTAL</strong></td>
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<tr>
<th><strong>JUNIOR YEAR</strong></th>
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</tr>
</thead>
<tbody>
<tr>
<td>English course above 2000</td>
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<tr>
<td>Home Economics 3040 or approved college elective</td>
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<tr>
<td>Interior Design 3770, 3771</td>
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<td>Interior Design 3752, 3753</td>
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<tr>
<td>Approved speech elective</td>
<td>3</td>
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<td>Approved business elective</td>
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<tr>
<td>General education social sciences course</td>
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<table>
<thead>
<tr>
<th><strong>SENIOR YEAR</strong></th>
<th><strong>SEM. HRS.</strong></th>
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</thead>
<tbody>
<tr>
<td>Interior Design 3741, 3742, 3754, 3755, 3760</td>
<td>19</td>
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<tr>
<td>Approved business elective</td>
<td>3</td>
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<tr>
<td>Approved college electives</td>
<td>6</td>
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<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>31</strong></td>
</tr>
</tbody>
</table>

*Students desiring to take ROTC will be allowed to substitute ROTC for three sem. hrs. of general electives and for three sem. hrs. of college approved electives.

**SCHOOL OF ART**

**DIRECTOR:** Milnes, Professor

**PROFESSORS:** Bova, Burke, Cox, Daugherty, Garrett, Harding, Lawrence, Milnes, Pramuk, Rutkowski, Warrens

**OFFICE:** 123 Design Center  
**TELEPHONE:** (504) 388-5411
ASSOCIATE PROFESSORS: Arp, Book, Bower, Crespo, Guichet, Hamblen, Hausey, Hentz, Hoard, Johns, Lyon, Mauck, Meek, Neff, Zucker
ASSISTANT PROFESSORS: Arbuckle, Boden, Greenebaum, Malveto
ADJUNCT FACULTY: Bacot

Through the College of Design, the School of Art offers the professional B.F.A. degree with majors in ceramics, graphic design, painting and drawing, printmaking, and sculpture. In addition, students majoring in these areas may minor in ceramics, jewelry/metalsmithing, painting and drawing, photography, printmaking, and sculpture.

Certain courses offered by the school require fees to defray the cost of consumable materials used by students. This information is included in the individual course descriptions.

Bachelor of Fine Arts Degree

The Bachelor of Fine Arts degree provides the liberal education and specialized instruction needed for a professional career in the visual arts. Students transferring into the B.F.A. program may be required to submit portfolios or reproductions of their work. The art faculty will review the work of all advanced students prior to admission to the final project course required for the B.F.A. degree.

Credit earned in two-year technical or terminal degree programs and programs which, when completed, result in an "Associate in Applied Sciences" diploma may be accepted for degree credit to the extent that the courses are equivalent to degree work in the School of Art, as determined by the school director.

GENERAL EDUCATION REQUIREMENTS

See degree requirements for the College of Design. Thirty-nine hours of general education courses must be completed as required by the University.

CURRICULUM IN CERAMICS

TOTAL SEM. HRS.: 128

Credit for Art 3661, 4661, and 4671 will be allocated depending on student's qualifications and interests. Courses will be selected with advice of an academic counselor.

Ceramics Minor: Art 1661, 2661 (repeated for nine hours of credit), and six sem. hrs. of ceramics courses at the 3000 level or above.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 1001, 1661, 1762, 1847, 1848 (core courses)</td>
<td>15</td>
<td>Art 1361, 1849 (core courses)</td>
<td>6</td>
</tr>
<tr>
<td>Art history course below 3000</td>
<td>3</td>
<td>Art 2661</td>
<td>6</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>Art history course below 3000</td>
<td>3</td>
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<td>General education courses</td>
<td>6</td>
<td>English courses above 2000</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>4</td>
<td>General education courses</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Electives or ROTC</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>JUNIOR YEAR</td>
<td>SEM. HRS.</td>
<td>SENIOR YEAR</td>
<td>SEM. HRS.</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------</td>
<td>-------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Art 2655</td>
<td>3</td>
<td>Art 4661, 4671, and/or 4681</td>
<td>12</td>
</tr>
<tr>
<td>Art 3661 and/or 4661</td>
<td>9</td>
<td>Art 4691</td>
<td>3</td>
</tr>
<tr>
<td>Art history courses above 3000</td>
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<td>Art studio electives</td>
<td>9</td>
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<tr>
<td>Art studio electives</td>
<td>6</td>
<td>General education courses</td>
<td>6</td>
</tr>
<tr>
<td>General education courses</td>
<td>6</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

CURRICULUM IN GRAPHIC DESIGN

TOTAL SEM. HRS.: 128

Admission into the professional program (years 2-4) is selective. Students desiring admission should apply during the spring semester prior to the fall semester of their sophomore year. The following entrance requirements must be met before applying: (1) completion of all required freshman graphic design courses, or faculty-approved equivalents, (2) attainment of a minimum 2.25 overall GPA, and (3) preparation of a portfolio containing examples from freshman studio courses.
Once these requirements have been satisfied, an application packet must be submitted. It should contain the following: (1) application form, (2) unofficial transcript of grades, (3) letter of application and intent, and (4) portfolio of examples from freshman studio courses.

Students who are unable to meet the specified criteria for selective admission may apply for conditional acceptance, provided space is available. Transfer students from other LSU programs and from other universities will be considered according to the same standards. Individuals not admitted to the professional program will not have access to graphic design courses other than those listed in the first two semesters of the curriculum.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 1011, 1440, 1441, 1551, 1847, 1848</td>
<td>18</td>
<td>Art 2544, 2552, 2555, 2564</td>
<td>12</td>
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<tr>
<td>Engineering Graphics 1001</td>
<td>2</td>
<td>English 2002</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>English course above 2000</td>
<td>3</td>
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<tr>
<td>General education course</td>
<td>3</td>
<td>Art studio electives</td>
<td>3</td>
</tr>
<tr>
<td>General University electives or ROTC</td>
<td>3</td>
<td>General education courses</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>General University electives or ROTC</td>
<td>3</td>
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<tr>
<td></td>
<td>32</td>
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<table>
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<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 2095, 3544, 3564</td>
<td>9</td>
<td>Art 4524, 4534, 4555, 4564</td>
<td>12</td>
</tr>
<tr>
<td>Art 2881 or 2883</td>
<td>3</td>
<td>Art 1361 or 1371</td>
<td>3</td>
</tr>
<tr>
<td>Art history elective above 3000</td>
<td>6</td>
<td>Art 1762 or crafts elective.</td>
<td>3</td>
</tr>
<tr>
<td>Art studio elective</td>
<td>3</td>
<td>Art studio electives</td>
<td>9</td>
</tr>
<tr>
<td>General education courses</td>
<td>9</td>
<td>General education courses</td>
<td>6</td>
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<tr>
<td></td>
<td>30</td>
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</table>

**CURRICULUM IN PAINTING AND DRAWING**

**TOTAL SEM. HRS.: 131**

*Painting and Drawing Minor:* Art 2879, 2881, 4880, 4881, 4884, and 4889.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 1001, 1762, 1847, 1848, 1849</td>
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<td>Art 2879, 2881, 2882</td>
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<tr>
<td>(core courses)</td>
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<td>Art 1661 and either 1361 or 1371</td>
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<tr>
<td>Art history course below 3000</td>
<td>6</td>
<td>(core courses)</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>3</td>
<td>Art history course below 3000</td>
<td>3</td>
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<tr>
<td>Art studio elective</td>
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<td>General education courses</td>
<td>6</td>
<td>General education courses</td>
<td>6</td>
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<tr>
<td>General University electives or ROTC</td>
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<td>General University electives or ROTC</td>
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<td></td>
<td>36</td>
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<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Art 2883, 4880, 4881, 4887</td>
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<td>Art 4800, 4884, 4889</td>
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<td>Art history courses above 3000</td>
<td>6</td>
<td>Art studio electives</td>
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<td>Art studio electives</td>
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<tr>
<td></td>
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</table>

**CURRICULUM IN PRINTMAKING**

**TOTAL SEM. HRS.: 129**

*Major Requirements:* In addition to the core courses, students must complete Art 2362, 2372, and 24 more sem. hrs. of printmaking courses, at least 12 hrs. of which must be numbered above 4000.

*Printmaking Minor:* Art 1361, 1371, six semester hours of printmaking courses at the 2000 level, and six semester hours of printmaking courses at the 4000 level.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
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<td>9</td>
<td>Art 1361 or 1371, 1661, 1762, 1849 (choose two)</td>
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<tr>
<td>Art 1361 or 1371, 1661, 1762, 1849 (choose two)</td>
<td>6</td>
<td>Art history course below 3000</td>
<td>3</td>
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<tr>
<td>(choose two)</td>
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<td>English courses above 2000</td>
<td>3</td>
</tr>
<tr>
<td>Art history course below 3000</td>
<td>3</td>
<td>Art studio elective</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>General education courses</td>
<td>6</td>
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<tr>
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<td>Major requirements</td>
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<td>Electives or ROTC</td>
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<td>Electives or ROTC</td>
<td>3</td>
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</table>
### CURRICULUM IN SCULPTURE
**TOTAL SEM. HRS.: 129**

#### FRESHMAN YEAR

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<tr>
<th>Course</th>
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<tr>
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</tr>
<tr>
<td>Art history course below 3000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>General education courses</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
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<tr>
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<td><strong>33</strong></td>
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#### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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<td>Art 1661 and either 1361 or 1371 (core courses)</td>
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</tr>
<tr>
<td>Art 2655</td>
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<td>Art history course below 3000</td>
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<tr>
<td>English courses above 2000</td>
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<td>Electives or ROTC</td>
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#### JUNIOR YEAR

<table>
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<th>Course</th>
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<td>Art 2661</td>
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<td>Art history course above 3000</td>
<td>3</td>
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<tr>
<td>Arts studio electives</td>
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<tr>
<td>General education courses</td>
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<td><strong>Total</strong></td>
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#### SENIOR YEAR

<table>
<thead>
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<th>Course</th>
<th>SEM. HRS.</th>
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<tr>
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<tr>
<td>Art 4762</td>
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<td>Art 4671</td>
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<td>General education courses</td>
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<tr>
<td>Electives</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

### Other Minor Programs

In addition to the programs specified above, minors in jewelry/metalsmithing and photography are also available. Requirements are as follows:

- **Jewelry/Metalsmithing Minor**: Art 2655, 2656, 4651 (repeated for six hours of credit), and 4655 (repeated for six hours of credit).
- **Photography Minor**: Art 2095, 2096, 3094, and 4041 (repeated for six hours of credit).

### Art Curricula Outside the School of Art

Other undergraduate degree programs in art are offered by academic divisions outside the College of Design. The College of Arts and Sciences offers a Bachelor of Arts degree with a major in fine arts and concentration in either studio art or art history. General requirements for this degree may be found in the section of this catalog entitled "Degree Requirements of the College" for the College of Arts and Sciences. School of Art requirements for such students are also given in the "College of Arts and Sciences" section. Students interested in pursuing this degree should confer with an advisor in the School of Art. The art history area offers a wide range of courses in all major historical eras. Students are prepared to continue their education in graduate school or to enter a variety of related fields without additional training beyond the college level.

The College of Education offers the Bachelor of Science degree with a major in education and a teaching major in art. Students planning to major in art education should confer with the office of the dean of the College of Education concerning admission to the teacher education program and certification requirements for Louisiana. The art education curriculum, leading to grades K-12 certification, includes experiences in studio art, art history, art teaching methods, and professional and general studies recommended by the Louisiana State Department of Education and national accrediting agencies.

### SCHOOL OF LANDSCAPE ARCHITECTURE

**DIRECTOR**: Odenwald, Professor

**ALUMNI PROFESSOR EMERITUS**: Reich

**PROFESSORS**: Conrad, Earle, Emerson, Haynes, Odenwald, Popadic, Womack

**OFFICE**: 302 New Design Building

**TELEPHONE**: (504) 388-1434
LSU is the only school in Louisiana with a nationally accredited curriculum in landscape architecture. The five-year curriculum affords a well-rounded course of study based on standards set by the American Society of Landscape Architects. It provides training in the many aspects of the profession, ranging from physical master-planning of cities and regions to design of intimate outdoor spaces associated with individual structures. Work on-landscape architectural projects frequently involves active collaboration with the related professions of architecture, art, city planning, engineering, law, sociology, psychology, geology, geography, economics, and other areas of specialization. Upon satisfactory completion of the undergraduate program, the degree of Bachelor of Landscape Architecture is awarded.

**Admission Requirements:** A student will be admitted to the curriculum in landscape architecture subject to the following conditions:

1. Entry into the professional courses at the third-year level and higher is contingent upon 1) available space and facilities for a class not to exceed 54 students, and 2) upon the following criteria:
   a. Completion of the following required courses or their equivalents: BAE 2307, * ENGL 1001, 1002, LA 1151, 1153, 1181, 1182, 2141, * or 2142, * or 2143, * or 2151, 2152, 2171; * MATH 1021, 1022. (Courses noted with asterisks may be taken by transfer students concurrently with third-year courses.)
   b. A 2.25 grade-point average on all courses completed and a 2.00 grade-point average on all landscape architecture courses completed.

2. If requests from qualified students exceed the maximum number of available spaces, an admissions committee will resolve special situations and hear appeals.

**Transfer Students:** Students transferring into landscape architecture from other disciplines may be admitted only after having been interviewed as indicated above.

**English Proficiency:** Students who do not receive a grade of "B" or better in English 1002 or a grade of "C" or better in English 1003 or 1005 are required to take the English proficiency exam. Students who fail this exam must take English 1002 and receive a grade of "B" or better, or enroll in English 2001 or 2002 and earn a grade of "C" or better to be certified proficient in English.

**CURRICULUM IN LANDSCAPE ARCHITECTURE (WITH OPTIONS)**

*TOTAL SEM. HRS.: 160*

**Students may not receive credit toward graduation for more than six hours of ROTC and six hours of HPDR activity courses. All elective courses must be approved by the school director or designated advisor. Thirty-nine hours of general education courses must be completed as required by the University.**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>Landscape Architecture 1151, 1153, 1181, 1182</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>8</td>
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<tr>
<td>**</td>
<td>**32</td>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landscape Architecture 2121, 2183, 3122, 3153, 3154, 3173, 3183</td>
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</tr>
<tr>
<td>Landscape Architecture 2141, 2142, or 2143</td>
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<tr>
<td>Approved electives</td>
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<tr>
<td>**</td>
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<table>
<thead>
<tr>
<th>FIFTH YEAR</th>
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<tbody>
<tr>
<td>Landscape Architecture 4156, 4252, 4276</td>
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<td>Landscape Architecture 4250 or 4251</td>
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<td>Approved electives</td>
<td>14</td>
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<tr>
<td>**</td>
<td>**32</td>
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<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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</tbody>
</table>
The principal purpose of the College of Education is the preparation of students for teaching in elementary and secondary schools and for other school positions. The departments, curricula, and degrees within the college are shown in the following chart. The college administers all curricula (except those offered by the School of Vocational Education and Technology) designed specifically for preparation of teachers in various teaching fields. All freshmen who enter the University with the intent of becoming teachers (except those following the curricula offered by the School of Vocational Education and Technology) should plan their Junior Division work to conform to the requirements of the College of Education.

All College of Education teacher education programs, both undergraduate and graduate, are fully accredited by the National Council for Accreditation of Teacher Education.

Programs in vocational agricultural education, vocational home economics education, and industrial arts education are offered through the School of Vocational Education and Technology in the College of Agriculture. Students may also prepare for nursery school-kindergarten teaching through the School of Home Economics in the College of Agriculture.

OBJECTIVES OF TEACHER EDUCATION

The objectives of teacher education are implied in the admission requirements, organization, and curricula of the College of Education. Students with a desire to teach are recruited and in the sophomore year are formally admitted to curricula leading to graduation and certification. Curricula insuring a broad general education, specialized scholarship in teaching fields, and professional background and competence are offered. The undergraduate program includes supervised student teaching in the senior year. Through course work, student organizations, directed laboratory training, and counseling, students who have chosen teaching as a career learn to bring together high purpose, academic scholarship, and teaching skill and understanding.
Some of the major objectives of teacher education are to facilitate understanding of children and adults; to develop understanding and appreciation of our culture and its historical evolution; to formulate a philosophy of education for our society; to develop sound scholarship and a continuing interest in the teaching fields; to understand the American public school and its contribution to the individual and society; to develop the art and science of teaching, combining scholarship and professional skill; and to understand the ethics, status, organizations, history, and ideals of the teaching profession in a multicultural society.

**GENERAL ADMISSION REQUIREMENT**

Students on University scholastic and attendance probation will not be admitted to the college.

**TEACHER EDUCATION ADMISSION REQUIREMENTS**

Teachers should rank high in mental alertness, power of expression, and professional enthusiasm. Students enrolling in teacher education programs in the College of Education should have a positive desire to teach, show an aptitude for oral and written expression, and be free of mental, physical, or other personal handicaps that would be detrimental to successful work with children.
As a result of Act 836 of the 1984 Louisiana Legislature, each student seeking admission to a teacher education program must present satisfactory scores on the General Knowledge Examination (score = 644) and the Communication Skills Examination (score = 645) from the Core Battery of the National Teacher Examination. Admission of College of Education students to upper division professional education courses will be restricted to those who have been formally admitted to a teacher education program.

Applicants for the College of Education will be admitted at two levels:

1. **Basic Education Program**—those students who have earned at least 24 semester hours with at least a 2.20 grade-point average will be eligible to enter this program.

2. **Teacher Education Program**—those students who qualify for the Basic Education Program, have at least a 2.50 grade-point average, and present appropriate National Teacher Examination scores (General Knowledge = 644 and Communication Skills = 645) will be eligible to enter the Teacher Education Program. *All students, regardless of their catalog issue, must meet these requirements.*

Students admitted to the Basic Education Programs will be required to qualify for entry into the Teacher Education Program by the time they have earned 75 semester hours. Any student who fails to do so will be dropped from the college.

Dual enrollment students, transfer students, and students with baccalaureate degrees who are returning for certification will be allowed one semester of enrollment in upper division education courses. Beyond that point all requirements must be met.

All other students in the college must be admitted to the Teacher Education Program in order to schedule professional education courses at the 3000 level or above.

No student who has been dropped from or is ineligible for entry into the College of Education for scholastic or NTE deficiencies may schedule professional education courses at the 3000-level or above.

**Special Admission Exception**—Applicants who fail to meet one or both of the NTE requirements stated above may request an exception to this admission policy. Directions for requesting this exception are available in the office of the dean. A limited number of students may be admitted by exception.

**RETENTION IN THE COLLEGE**

**Teacher Education Programs**

In view of its responsibility to the teaching profession, the college reserves the right to review at any time a student’s suitability to continue in a teacher-education program. Faculty members are encouraged to monitor the growth of prospective teachers enrolled in the college. Questions concerning the suitability of students for particular programs should be referred to the college Admission and Retention Committee.

To remain in the College of Education, students must meet the following retention criteria:

1. **All students are expected to earn a grade of “C” or better in one of the following courses, or have the equivalent in transfer credit: English 1002, 1003, 1005 (foreign students), 2001, or 2002. Students who fail to do so must repeat the course or pass the English proficiency examination. Any student not declared proficient within three semesters after entering the college will be dropped from the college.**

2. **Students enrolled in the college who are on scholastic probation will be dropped from the college for failure to earn a 2.00 grade-point average during any semester.**

3. **Students enrolled in the college who fail to earn a 2.00 grade-point average for two consecutive semesters will be dropped from the college.**

4. **Students within 14 semester hours of graduation who are not qualified for student teaching will be dropped from the college. (See “Requirements for Student Teaching,” below.)**

**Other Programs**

To remain in the College of Education, students must meet the following retention criteria.

1. **All students are expected to earn a grade of “C” or better in one of the following courses, or have the equivalent in transfer credit: English 1002, 1003, 1005 (foreign students), 2001,
or 2002. Students who fail to do so must repeat the course or pass the English proficiency examination. Any student not declared proficient within three semesters after entering the college will be dropped from the college.

2. Students enrolled in the college who are on scholastic probation will be dropped from the college for failure to earn a 2.00 grade-point average during any semester.

3. Students enrolled in the college who fail to earn a 2.00 grade-point average for two consecutive semesters will be dropped from the college.

STUDENT TEACHING

Application for Student Teaching

Application for student teaching must be made to the Coordinator of Clinical Experiences no later than one week following the last day for adding courses in the semester prior to student teaching.

Requirements for Student Teaching

Student teaching is offered each fall and spring semester, scheduled as an all-day, Monday through Friday experience. Student teachers must also plan for 3:30-4:30 p.m. meetings on Wednesdays. The student teaching experience must include a minimum of 270 clock hours, 180 of which must be actual teaching. A substantial portion of the 180 clock hours in actual teaching must be on an all-day basis.

No student may schedule more than 15 semester hours of work during the semester in which student teaching is done. Any student who is within 14 hours of graduation and is not qualified for supervised student teaching will be dropped from the college (see requirements below).

To be permitted to do student teaching, the student must fully meet the following requirements.

In the Elementary Grades

1. Attainment of senior standing in the college with an overall average of 2.50 on all work attempted and on all work at LSU, with at least a 2.00 average in professional education courses and in all work other than professional education courses, and with no grade lower than "C" in professional education courses and in specialized courses required for certification in elementary education, regardless of institution(s) attended. Completion of the following courses is required: three semester hours of approved electives in art, music, and speech; EDCI 2700, EDCI 3000, HEC 1010; HIST 2071 or GEOG 4001; HPRD 2507, and HPRD 2602.

2. Completion of EDCI 2025, 3112, 3113, 3125, 3126, 3127; and Psychology 2060, 2076.

3. Proficiency in written expression.

In Secondary and K-12 Subjects

1. Attainment of senior standing in the college with an overall average of 2.50 on all work attempted and on all work at LSU, with at least a 2.00 average in professional education courses and in each teaching field, and with no grade lower than "C" in professional education courses and in courses required in each teaching field, regardless of the institution(s) attended.

2. Completion of all professional education courses, including psychology, and specialized academic courses prescribed in the freshman, sophomore, and junior years.

3. Proficiency in written expression.

DEGREE REQUIREMENTS OF THE COLLEGE

Teacher Education Programs

Degrees in teacher education programs in this college are conferred when the following conditions have been met:
1. Completion of a minimum of 128 semester hours with an average of 2.50 on all work taken, with no grade less than "C" in professional education courses and in specialized academic courses.

2. Completion of the final 30 semester hours of work done in residence on the LSU campus as a registrant in this college.

3. Satisfactory completion of an approved program of teacher education which has been determined and approved by the faculty of this college, the LSU Teacher Education Council, and the Louisiana Board of Elementary and Secondary Education.

4. Proficiency in written expression.

Other Degree Programs

Degrees in non-teaching areas in this college are conferred when the following conditions have been met:

1. Completion of a minimum of 128 semester hours with an average of 2.50 on all work taken, with no grade less than "C" in specialized academic courses.

2. Completion of the final 30 semester hours of work done in residence on the LSU campus as a registrant in this college.

3. Satisfactory completion of the appropriate approved curriculum.

4. Proficiency in written expression.

PROFICIENCY IN ENGLISH

To be certified as proficient in English, students in this college must earn a grade of "C" or better in English 1002, 1003, 1005 (international students), 2001, or 2002 or have the equivalent in transfer credit. Students whose grades are lower than “C” must earn satisfactory scores (at least 301) on the English proficiency examination or repeat the course. Any student not declared proficient within three semesters after entering the college will be dropped from the college.

SPEECH AND HEARING PROFICIENCY

All students in the college are expected to take a speech and hearing proficiency test for their own guidance and for improving their professional capability. As a result of this test, which is administered during each registration period, some students may be referred to the Speech and Hearing Clinic for further evaluation or for therapy. It is the student’s responsibility to meet the speech and hearing demands of the profession.

SPECIAL REQUIREMENT

No final grade lower than "C" will be accepted in any professional or specialized academic education course which is required for certification, regardless of a student’s overall grade-point average.

NATIONAL TEACHER EXAMINATION

A satisfactory score on the National Teacher Examination (NTE) is required for teacher certification in Louisiana. Specific information and registration forms are available in the Office of the Dean, College of Education.

CORRESPONDENCE AND EXTENSION CREDITS

Up to one-fourth of the number of hours required for the baccalaureate degree may be taken through the Division of Continuing Education by correspondence study, extension courses, or both. Students may not schedule correspondence or extension work during the last 30 hours of their programs. Time limits for correspondence study will be imposed in order that these courses cause as little conflict as possible with regular classes.
DUAL ENROLLMENT PROGRAM

A student enrolled in another college of the University who seeks certification as a secondary teacher should apply for admission to an approved teacher education program in the College of Education. All admission, retention, and other academic requirements of both the division in which the student is enrolled and the College of Education must be satisfied.

ALTERNATE CERTIFICATION FOR SECONDARY TEACHERS

Individuals who have completed a baccalaureate degree from a regionally accredited institution with a major or other concentration in a teacher certification area and a grade-point average of at least 2.50 may be eligible for the Alternate Post-Baccalaureate Certification Program for Secondary Teachers. Information regarding this program is available from the Office of the Dean, College of Education.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

In order to qualify for a second bachelor's degree in the College of Education, a student must meet all previously listed entrance requirements and must complete a program of studies which comprises at least 30 semester hours of work, including any stated degree requirements not previously met.

GRADUATE PROGRAMS

The college offers courses leading to the degrees of Master of Arts, Master of Education, Master of Science, Doctor of Education, and Doctor of Philosophy. The Certificate of Education Specialist is also offered. For information on these programs, consult the Graduate School Catalog.

LSU TEACHER EDUCATION COUNCIL

The Teacher Education Council provides governance for all teacher education programs offered within the University. It is responsible for setting and achieving teacher education goals, establishing policies, fixing responsibilities for program decision-making, identifying and utilizing resources, and facilitating continuing development and improvement of basic and advanced teacher education programs.

SEQUENCE IN SUBJECT-MATTER FIELDS FOR TEACHING

MAJORS AND MINORS IN GRADES K-12

Art Education

*Teaching Major, 51 sem. hrs.:* Art 1011, 1361 or 1371, 1440, 1441, 1661, 1761, 1847, 1848, 1849, 2271, 2272, 2879, 4273, 4466, 4889; art history elective; 3 sem. hrs. of art electives.

*Teaching Minor:* Art may not be scheduled as a teaching minor.

Music Education

Music may be scheduled as a teaching major only. Students majoring in music are not required to have a teaching minor. Curricula are offered in instrumental and vocal music education.

Physical Education

*Teaching Major, 32 sem. hrs.:* HPRD 1404, 2500, 2501, 2502, 2540, 2601, 3510, 3511, 3513, 3514, 3515, 3516.

*Teaching Minor, 28-29 sem. hrs.:* HPRD 1404; 2 sem. hrs. selected from HPRD 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413; HPRD 2500, 2501, 2540, 2601 or 3602 or 4503, 3510, 3511, 3513, 3514 or 3515, and 3516. Minors in physical education are certified for grades K-12.
School Health Education

Teaching Minor, 30 sem. hrs.: HPRD 1600, 2601, 3603, 4601, 4602; 6 sem. hrs. selected from HPRD 2602, 3604, or 4619; 3 sem. hrs. selected from HPRD 2500, Zoology 2160; and 6 sem. hrs. selected from HPRD 1601, 2600, 3602, 4604, and 4605.

Speech, Language, and Hearing Specialist

Teaching Major, 59 sem. hrs.: Experimental Statistics 2201; Psychology 2004, 4070; COMD 1080, 2081, 4150, 4190, 4250, 4253, 4380, 4381, 4382, 4383, 4384, 4490, 4590, 4683, 4684, 4685.

Teaching Minor: Speech, language, and hearing specialist may not be scheduled as a teaching minor.

SEQUENCE IN SUBJECT-MATTER FIELDS FOR TEACHING

MAJORS AND MINORS FOR SECONDARY TEACHERS

Students interested in most of the following curricula have the option of choosing a teaching major with a teaching minor (Plan A) or a teaching major with no teaching minor (Plan B). Careful consideration of factors such as employment opportunities and personal interests should precede the selection of Plan A or B. Students are invited to consult faculty advisors or personnel in the dean's office for counseling.

Secondary Education—Biology

Teaching Major, Plan A, 39 sem. hrs.: Botany 1001, 1002, 2055; Chemistry 1201, 1202, 2060; Microbiology 2051; Zoology 1001, 1002; and 6 sem. hrs. of biological science electives (Zoology 2153 or 2160; and either Botany 4083, Entomology 2001, Zoology 4149, Zoology 4153, or Biochemistry 4087).

Teaching Major, Plan B, 62 sem. hrs.: Botany 1001, 1002, 2055; Chemistry 1201, 1202, 1212; Geology 1001, 1002, 1601, 1602; Microbiology 2051; Physics 2001, 2002, 2009, 2108; Zoology 1001, 1002, 2160, 4149; 7 sem. hrs. of life science electives.

Teaching Minor, 29 sem. hrs.: Botany 1001, 1002; Chemistry 1201, 1202, 2060; Microbiology 2051; Zoology 1001, 1002.

Secondary Education—Chemistry

Teaching Major, Plan A, 31 sem. hrs.: Biochemistry 4001, 4078; Chemistry 1201 or 1421, 1202 or 1422, 1212 or 1431, 1432, 2261, 2262, 2364; Physics 2001, 2002.

Teaching Major, Plan B, 53 sem. hrs.: Biochemistry 4001, 4083, 4084; Chemistry 1421, 1422, 1431, 1432, 2261, 2262, 2364, 3 sem. hrs. of chemistry electives; Geology 1001, 1003, 1601, 1602; Physics 1201, 1202, 1208, 1209; Zoology 1001, 1002.

Teaching Minor, 20 sem. hrs.: Biochemistry 2083, 2084; Chemistry 1201 or 1421, 1202 or 1422, 1212 or 1431, 1432, 2060, 2364.

Secondary Education—Earth Science

Teaching Major: Earth science may not be scheduled as a teaching major.

Teaching Minor, 21 sem. hrs.: Geology 1001 or 1002, 1003 or 1004, 1005, 1006, 1601, 1602, 2071, 2081, 2661.

Secondary Education—English

Students may not use more than 6 sem. hrs. of English 1001 or 1002 as part of the major. If only English 1002 is taken, three additional hours of English electives are required. Students interested in continuing their studies in English at the graduate level are advised to elect at least one year of a foreign language, preferably French or German.

Teaching Major, Plan A, 42 sem. hrs.: English 1001, 1002, 2001, 2010, 2020, 2022, 2025, 2027, 4012, and 2148 or 4148 or 4149; 3 sem. hrs. of American literature; 3 sem. hrs. of electives selected from English courses numbered 4011 or higher, and from the English honors courses 3820, 3821, 3822, 3823 (courses in language, literary criticism, and Afro-American literature are recommended); SPCM 2040 and three additional hours of electives (COMD 1080 is recommended).
Teaching Major, Plan B, 54 sem. hrs.: English 1001, 1002, 2001, 2010, 2020, 2022, 2025, 2027, 4012; English 2148 or 4148 or 4149; 3 sem. hrs. of American literature; 15 sem. hrs. of electives selected from English courses numbered 4011 or higher, and from the English honors courses 3820, 3821, 3822, and 3823 (courses in language, literary criticism, and Afro-American literature are recommended); SPCM 2040 and three additional hours of electives. (COMD 1080 is recommended).

Teaching Minor, 30 sem. hrs.: English 1001, 1002, 2001, 2010, 2020, 2022, 2027, 4012; English 2148 or 4148 or 4149; 3 sem. hrs. of American literature.

Secondary Education—French

Teaching Major, Plan A, 29 sem. hrs.: French 2051, 2053, 2055, 2060, 2071, 2072, 4005, 4015; 3 sem. hrs. of electives in French.

Teaching Major, Plan B, 40 sem. hrs.: French 2051, 2053, 2055, 2060, 2071, 2072, 4005, 4015, 4016; 12 sem. hrs. of electives in French.

Teaching Minor, 26 sem. hrs.: French 2051, 2053, 2055, 2060, 2071 or 2072, 4005, 4015; 3 sem. hrs. of electives in French.

Secondary Education—General Science

Teaching Major: General science may not be scheduled as a teaching major.

Teaching Minor, 32 sem. hrs.: Biology 1001, 1002, 1003, 1004; Chemistry 1201 or 1421, 1202 or 1422, 1212 or 1431; Geology 1001 or 1002, 1003 or 1004, 1601, 1602; Physics 2001, 2002, 2009, 2108.

Secondary Education—German

Teaching Major: German may not be scheduled as a teaching major.

Teaching Minor, 26 sem. hrs.: German 2051, 2053, 2055, 2061, 2062, 2075, 4002; 3 sem. hrs. of electives in German above the freshman level.

Secondary Education—Industrial Arts Education

Teaching Major: Industrial arts education may not be scheduled as a teaching major in this college.

Teaching Minor, 24-30 sem. hrs.: 6 sem. hrs. of professional industrial education courses; 18-24 sem. hrs. of study in two technical areas.

Secondary Education—Journalism

Teaching Major: Journalism may not be scheduled as a teaching major.

Teaching Minor, 15 sem. hrs.: Journalism 2090, 2151, 3151, 3152, 4082.

Secondary Education—Latin

Teaching Major, Plan A, 23 sem. hrs.: Latin 2051, 2053, 2065, 4002; 9 sem. hrs. of electives in Latin above the freshman level.

Teaching Major, Plan B, 34 sem. hrs.: Latin 1001, 2051, 2053, 2065; 12 sem. hrs. of electives in Latin to be selected from 2073, 2074, 4002, 4004, 4006; plus 6 sem. hrs. specified by Department of Classical, Germanic, and Slavic Languages.

Teaching Minor, 20 sem. hrs.: Latin 2051, 2053, 2065, 4002; 6 sem. hrs. of electives in Latin above the freshman level.

Secondary Education—Library Science

Completion of the teaching minor in library science leads to certification as a school librarian. This minor is sponsored jointly by LSU and Southern University, with each campus offering a portion of the required course work.

Teaching Major: Library science may not be scheduled as a teaching major.

Teaching Minor, 24 sem. hrs.: EDAF 3500, 3552, 3553, 3554, 3555; EDCI 3000, 3100, 3660.
Secondary Education—Mathematics

Based on test scores, students placed in Mathematics 1023 (5 sem. hrs.) will be required to take 33 sem. hrs. for a mathematics major with a minor, 25 sem. hrs. for a mathematics minor, and 45 sem. hrs. for a mathematics major with no minor. Mathematics majors must have at least 25 sem. hrs. of math courses numbered 1550 or above.

Teaching Major, Plan A, 33-34 sem. hrs.: Mathematics 1021, 1022, 1550, 1552, 2019, 2057, 2085, 4005, 4181; Computer Science 1241.

Teaching Major, Plan B, 45-46 sem. hrs.: Mathematics 1021, 1022, 1550, 1552, 2019, 2057, 2085, 4005, 4022, 4055, 4181; a 3 sem. hr. math elective at the 4000 level; Computer Science 1250, 1251.

Teaching Minor, 25-26 sem. hrs.: Mathematics 1021, 1022, 1550, 2019, 2085, 4005, 4181; Computer Science 1241.

Secondary Education—Physics

Teaching Major, Plan A, 28 sem. hrs.: Physics 1201 or 2101, 1202 or 2102, 1208 or 2108, 1209 or 2109, 2111, 2209, 2231, 2401, 2221; 4 sem. hr. biological science elective.

Teaching Major, Plan B, 51 sem. hrs.: Physics 1201, 1202, 1208, 2109, 2111, 2209, 2211, 2231, 2401, 4132; Chemistry 1201, 1202, 1212; Geology 1001, 1003, 1601, 1602; Zoology 1001, 1002 or Botany 1001, 1002.

Teaching Minor, 21 sem. hrs.: Physics 1201 or 2101, 1202 or 2102, 1208 or 2108, 1209 or 2109, 2111, 2209, 2231, 2401.

Secondary Education—Russian

Teaching Major, Plan A, 29 sem. hrs.: Russian 2051, 2053, 2055, 2061, 2062, 2071, 2072, 4002; 3 sem. hrs. of electives in Russian above the freshman level.

Teaching Major, Plan B, 37 sem. hrs.: Russian 1001, 2051, 2053, 2055, 2061, 2062, 2071, 2072, 4002; 6 sem. hrs. of electives in Russian.

Teaching Minor, 26 sem. hrs.: Russian 2051, 2053, 2055, 2061, 2062, 2071, 2072, 4002.

Secondary Education—Social Studies

Teaching Major, 54 sem. hrs.: Anthropology 1001; Economics 2030 and 3310 or 4010 or 4020; Geography 2061, 2062, 4001; Political Science 2051, 2056; History 1001, 1003, 2055, 2057, 2071; 6 sem. hrs. of American history (3 sem. hrs. above the 3000 level); 6 sem. hrs. of European history (3 sem. hrs. above the 3000 level); Sociology 2001.

Teaching Minor, 42 sem. hrs.: Economics 2030 and 3310 or 4010 or 4020; 6 sem. hrs. of geography selected from Geography 2061, 2062, 4001; Political Science 2051, 2056; History 1001, 1003, 2055, 2057, 2071; 3 sem. hrs. in American history above the 3000 level; 3 sem. hrs. in European history above the 3000 level; Sociology 2001.

Secondary Education—Spanish

Teaching Major, Plan A, 29 sem. hrs.: Spanish 2051, 2053, 2055, 2061, 2062; 6 sem. hrs. of electives in Spanish selected from Spanish 3071, 3072, 3073, 3074; Spanish 4602; 3 sem. hrs. of electives in Spanish above the freshman level.

Teaching Major, Plan B, 40 sem. hrs.: Spanish 2051, 2053, 2055, 2061, 2062, 3071, 3072, 3073, 3074, 4602, 4603; 6 sem. hrs. of electives in Spanish.

Teaching Minor, 26 sem. hrs.: Spanish 2051, 2053, 2055, 2061, 2062; 6 sem. hrs. of electives in Spanish selected from 3071, 3072, 3073, 3074; Spanish 4602.

Secondary Education—Speech

Teaching Major, Plan A, 34 sem. hrs.: Journalism 1700 or 2720; COMD 1080; THTR 1020, 2022, 2025, 2026, 4125, SPCM 1061, 2040, 2063; 3 sem. hrs. of speech electives; 3 sem. hrs. of speech electives at the 4000 level.

Teaching Major, Plan B, 46 sem. hrs.: Journalism 1700 or 2720; COMD 1080, 2081; THTR 1020, 2022, 2025, 2026, 4125; SPCM 1061, 2040, 2063; 12 sem. hrs. of speech electives at the 4000 level (may include Journalism 3720); Anthropology 1003 or Psychology 2040 or Sociology 3601.
Departments, Schools, and Curricula

DEPARTMENT OF ADMINISTRATIVE AND FOUNDERAL SERVICES

CHAIRMAN: Licata, Professor

PROFESSORS: Geske, Licata, Maxcy, Rankin
ASSOCIATE PROFESSORS: Ellett, Hosie, Lomax, Mackey, McJulien, Shapiro, West
ASSISTANT PROFESSORS: Bifano, Gintner, Freeman, Hutchinson, MacGregor Michael, Pounder
ADJUNCT PROFESSOR: Hull

The Department of Administrative and Foundational Services offers programs in the foundations of education (historical, philosophical, cultural); educational research methodology; programs in counselor education, and educational administration and supervision. The department also provides services to the educational organizations in Louisiana and is the basic link to professional associations at the local, state, regional, and national level.

DEPARTMENT OF CURRICULUM AND INSTRUCTION

CHAIRMAN: Pinar, Professor

PROFESSORS: Beck, Cheek, Collins, Cookston, Good, Lafayette, Moe, Pinar, Readence, Soderbergh, Strawitz, Yarbrough
ASSOCIATE PROFESSORS: Charlesworth, Cox, Devlin, England, Hamblen, Mathews, McGee
ASSISTANT PROFESSORS: Christy, Edwards, Hammons, Kirshner, Konopak, Miller, Roman, Thompson, Whitson
INSTRUCTOR: Catchings, Many, Slaton

The department conducts research in the various areas of curriculum and instruction and prepares students for educational careers, including elementary and secondary teaching. A broad general education is provided in the student’s freshman and sophomore years, followed by professional preparation for teaching given through field-based courses in methods and techniques for teaching.

Six semester hours of basic ROTC may be taken as electives in the freshman and sophomore years in all curricula offered by this department. Students must schedule a two-semester sequence in either the biological or physical sciences.

CURRICULUM IN ART EDUCATION (K-12)

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TOTAL SEM. HRS.: 140
### CURRICULUM IN ELEMENTARY GRADES EDUCATION

**Total SEM. HRS.: 130**

**Kindergarten Endorsement:** Early childhood education programming is provided jointly by the Department of Curriculum and Instruction and the School of Home Economics. Early childhood courses needed for kindergarten certification/endorsement are crosslisted in both areas. Students may obtain kindergarten certification through the nursery school-kindergarten program in the curriculum in family life and environment or by obtaining a kindergarten endorsement on their elementary certificate through the Department of Curriculum and Instruction. Undergraduates in elementary education take EDCI/HEC 4055, 4057, and 4058. Holders of elementary teaching certificates take EDCI 4020 and EDCI/HEC 4055 and 4058.

#### FRESHMAN YEAR

<table>
<thead>
<tr>
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<tbody>
<tr>
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<tr>
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<td>6</td>
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<td>Home Economics 1010</td>
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#### SOPHOMORE YEAR

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<tr>
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### CURRICULUM IN MUSIC EDUCATION—INSTRUMENTAL MUSIC (BAND) (K-12)

**Total SEM. HRS.: 158**

All students in the B.M.E. program shall participate in band (Music 4250, 4251, 4252), orchestra (Music 4261), or chorus (Music 4234, 4236, 4240) for four years. Large ensemble assignments are made at the discretion of the advisor and the ensemble conductors. Any request for adjustment of the rules pertaining to performance in large ensembles must be submitted to a reviewing committee.

Students wishing to be certified in more than one area (band and orchestra, band and vocal, etc.) should see the dean of the College of Education for certification requirements and proficiencies. Such programs normally require a minimum of five years to complete.

Piano proficiency at the level of Music 1133 or equivalent and satisfactory completion of six semesters of recital hour (Music 1700) are required.

Students must schedule a two-semester sequence in either a biological or a physical science.
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<thead>
<tr>
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<th>SOPHOMORE YEAR</th>
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</tr>
</thead>
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<td>Music 1700</td>
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<td>Music 2300</td>
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<td>Music 1753, 1754, 2711, 2712</td>
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<td>Large ensemble courses</td>
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<td>Electives or ROTC</td>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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**CURRICULUM IN MUSIC EDUCATION—INSTRUMENTAL MUSIC (ORCHESTRA) (K-12)**

TOTAL SEM. HRS.: 158

All students in the B.M.E. program shall participate in band (Music 4250, 4251, 4252), orchestra (Music 4261), or chorus (Music 4234, 4236, 4240) for four years. Large ensemble assignments are made at the discretion of the advisor and the ensemble conductors. Any request for adjustment of the rules pertaining to performance in large ensembles must be submitted to a reviewing committee.

Students wishing to be certified in more than one area (band and orchestra, band and vocal, etc.) should see the dean of the College of Education for certification requirements and proficiencies. Such programs normally require a minimum of five years to complete.

Piano proficiency at the level of Music 1133 or equivalent and satisfactory completion of six semesters of recital hour (Music 1700) are required.

Students must schedule a two-semester sequence in either a biological or physical science.

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<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>General education English courses</td>
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### CURRICULUM IN MUSIC EDUCATION—VOCAL MUSIC (K-12)

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<td>Music 1018, 1019, 3711, 3749, 3750</td>
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<tr>
<td>EDCI 3135, 3136, 3630</td>
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<td>Music 4751, 4752</td>
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<tr>
<td><strong>Total</strong></td>
<td>41</td>
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</tbody>
</table>

*To include study of one brass instrument, one woodwind instrument, and percussion.

**Violinists study viola and bass; violists study violin and bass; cellists study viola and bass; bassists study viola and cello.

***Violin and viola students take one year of cello (MUS 3177); cello and bass students take one year of violin (MUS 3175).
### CURRICULUM IN SECONDARY EDUCATION—BIOLOGY WITH A TEACHING MINOR (PLAN A)

**TOTAL SEM. HRS.: 128**

Choice of minor may increase total number of hours required.

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<tr>
<td>Chemistry 1201, 1202 or 1421, 1422</td>
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<tr>
<td>English 1001, 1002</td>
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<tr>
<td>Mathematics 1021, 1022</td>
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<td>Zoology 1001, 1002</td>
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<td>History 2057</td>
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<td>Microbiology 2051</td>
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<td>General education social sciences course</td>
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<td>General education biological sciences courses</td>
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<td>History 2055</td>
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<tr>
<td>Psychology 2060, 2078</td>
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### CURRICULUM IN SECONDARY EDUCATION—BIOLOGY WITH NO TEACHING MINOR (PLAN B)

**TOTAL SEM. HRS.: 143**

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<td>English 1001, 1002</td>
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<td>Mathematics 1021, 1022</td>
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<tr>
<td>Zoology 1001, 1002</td>
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<td>Psychology 2060</td>
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<td>General education English courses</td>
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<td>HPRD electives</td>
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<td>General education humanities course</td>
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<td>Electives or ROTC</td>
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### CURRICULUM IN SECONDARY EDUCATION—CHEMISTRY WITH A TEACHING MINOR (PLAN A)

**TOTAL SEM. HRS.: 128**

*Choice of minor may increase total number of hours required.*

#### FRESHMAN YEAR

**SEM. HRS.**

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<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>Mathematics 1021, 1022</td>
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<tr>
<td>HPRD electives</td>
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<tr>
<td>General education arts course</td>
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<td>Electives or ROTC</td>
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#### SOPHOMORE YEAR

**SEM. HRS.**

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<td>Physics 2001, 2002</td>
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#### JUNIOR YEAR

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<td>EDCI 2040, 3135, 3147</td>
<td>9</td>
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<tr>
<td>History 2057</td>
<td>3</td>
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<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Minor methods course</td>
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</tr>
<tr>
<td>Minor course or elective</td>
<td>2</td>
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<tr>
<td><strong>Total</strong></td>
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#### SENIOR YEAR

**SEM. HRS.**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Biochemistry 4087</td>
<td>3</td>
</tr>
<tr>
<td>EDAF 3200</td>
<td>2</td>
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<tr>
<td>EDCI 3136, 3635</td>
<td>15</td>
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<tr>
<td>Computer science elective</td>
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<tr>
<td>HPRD elective</td>
<td>1</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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### CURRICULUM IN SECONDARY EDUCATION—CHEMISTRY WITH NO TEACHING MINOR (PLAN B)

**TOTAL SEM. HRS.: 138**

#### FRESHMAN YEAR

**SEM. HRS.**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Chemistry 1421, 1422, 1431</td>
<td>8</td>
</tr>
<tr>
<td>EDCI 1000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
</tr>
<tr>
<td>HPRD elective</td>
<td>1</td>
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<tr>
<td>General education arts course</td>
<td>3</td>
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<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>2</td>
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<tr>
<td><strong>Total</strong></td>
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#### SOPHOMORE YEAR

**SEM. HRS.**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Chemistry 1432, 2261</td>
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<tr>
<td>EDCI 2040</td>
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<tr>
<td>History 2055, 2057</td>
<td>6</td>
</tr>
<tr>
<td>Physics 1201, 1202, 1208, 1209</td>
<td>8</td>
</tr>
<tr>
<td>Psychology 2060</td>
<td>3</td>
</tr>
<tr>
<td>General education English courses</td>
<td>6</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
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<tr>
<td>Electives or ROTC</td>
<td>4</td>
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<td><strong>Total</strong></td>
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#### JUNIOR YEAR

**SEM. HRS.**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Biochemistry 4001</td>
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<tr>
<td>Chemistry 2262, 2364</td>
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</tr>
<tr>
<td>EDCI 3135, 3136</td>
<td>6</td>
</tr>
<tr>
<td>Geology 1001, 1601</td>
<td>4</td>
</tr>
<tr>
<td>HPRD 2601 and 1 hr. HPRD elective</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 2078</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 1001, 1602</td>
<td>8</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>34</td>
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#### SENIOR YEAR

**SEM. HRS.**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Biochemistry 4083, 4084</td>
<td>4</td>
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<tr>
<td>EDAF 3200</td>
<td>2</td>
</tr>
<tr>
<td>EDCI 3147, 3635</td>
<td>15</td>
</tr>
<tr>
<td>Geology 1003, 1602</td>
<td>4</td>
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<tr>
<td>Chemistry elective</td>
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<tr>
<td>HPRD elective</td>
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### CURRICULUM IN SECONDARY EDUCATION—ENGLISH WITH A TEACHING MINOR (PLAN A)

**TOTAL SEM. HRS.: 141**

Students interested in continuing their studies in English at the graduate level are advised to elect at least one year of a foreign language, preferably French or German.

Students must schedule a two-semester sequence in either a biological or a physical science.
### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>EDCI 1000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>HPRD 2601 and 3 sem. hrs. of HPRD electives</td>
<td>4</td>
</tr>
<tr>
<td>Biological science electives (science minor: see &quot;Sequence in Subject-Matter Fields&quot;)</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>Approved mathematics elective</td>
<td>3</td>
</tr>
<tr>
<td>Physical science electives (science minor: see &quot;Sequence in Subject-Matter Fields&quot;)</td>
<td>6</td>
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<tr>
<td>Electives or ROTC</td>
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**Total SEM. HRS.: 34**

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EDCI 3135, 3136</td>
<td>6</td>
</tr>
<tr>
<td>History 2055, 2057</td>
<td>6</td>
</tr>
<tr>
<td>English 2025, 2027, 4012</td>
<td>9</td>
</tr>
<tr>
<td>English elective selected from 3820, 3821, 3822, and 3823 and courses numbered 4011 or higher (courses in language, literary criticism and Afro-American literature recommended)</td>
<td>3</td>
</tr>
<tr>
<td>Speech elective (COMD 1080, SPCM 2040 recommended)</td>
<td>3</td>
</tr>
<tr>
<td>Teaching minor or electives</td>
<td>9</td>
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**Total SEM. HRS.: 36**

### CURRICULUM IN SECONDARY EDUCATION—ENGLISH WITH NO TEACHING MINOR (PLAN B)

*Students interested in continuing their studies in English at the graduate level are advised to elect at least one year of a foreign language, preferably French or German. Students must schedule a two-semester sequence in either a biological or a physical science.*

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>EDCI 2040</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
</tr>
<tr>
<td>Speech Communication 2040</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences courses</td>
<td>6</td>
</tr>
<tr>
<td>Elective or ROTC</td>
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**Total SEM. HRS.: 39**

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EDAF 3200</td>
<td>2</td>
</tr>
<tr>
<td>EDCI 3142, 3635, and minor methods course</td>
<td>18</td>
</tr>
<tr>
<td>English 2148 or 4148 or 4149</td>
<td>3</td>
</tr>
<tr>
<td>Teaching minor or electives</td>
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**Total SEM. HRS.: 32**

### FRESHMAN YEAR

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<tbody>
<tr>
<td>EDCI 1000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>HPRD 2601 and 3 sem. hrs. of HPRD electives</td>
<td>4</td>
</tr>
<tr>
<td>General education biological sciences courses</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>Approved mathematics elective</td>
<td>3</td>
</tr>
<tr>
<td>General education physical sciences courses</td>
<td>6</td>
</tr>
<tr>
<td>Elective or ROTC</td>
<td>3</td>
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**Total SEM. HRS.: 34**

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 3135, 3136</td>
<td>6</td>
</tr>
<tr>
<td>English 2025, 2027, 4012, and 15 sem. hrs. of English electives selected from 3820, 3821, 3822, and 3823 and courses numbered 4011 or higher (courses in language, literary criticism, and Afro-American literature recommended)</td>
<td>24</td>
</tr>
<tr>
<td>Speech electives (COMD 1080 and SPCM 2040 recommended)</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total SEM. HRS.: 39**

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>EDCI 2040</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
</tr>
<tr>
<td>Speech Communication 2040</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences courses</td>
<td>6</td>
</tr>
<tr>
<td>Elective or ROTC</td>
<td>3</td>
</tr>
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**Total SEM. HRS.: 36**

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EDAF 3200</td>
<td>2</td>
</tr>
<tr>
<td>EDCI 3142, 3635</td>
<td>15</td>
</tr>
<tr>
<td>English 2148 or 4148 or 4149</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
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</table>

**Total SEM. HRS.: 25**
CURRICULUM IN SECONDARY EDUCATION—FRENCH, LATIN, RUSSIAN, OR SPANISH WITH A TEACHING MINOR (PLAN A)

Students must schedule a two-semester sequence in either a biological or a physical science.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 1000</td>
<td>3</td>
<td>EDCI 2040</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>Foreign language courses</td>
<td>12</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>5</td>
<td>HPRD 2601 and 1 hr. HPRD elective</td>
<td>2</td>
</tr>
<tr>
<td>Biological sciences electives (sciences minor: see &quot;Sequence in Subject-Matter Fields&quot;)</td>
<td>6</td>
<td>Psychology 2060, 2078</td>
<td>6</td>
</tr>
<tr>
<td>HPRD electives (health science or physical education minor: see &quot;Sequence in Subject-Matter Fields&quot;)</td>
<td>2</td>
<td>General education English courses</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
<td>Electives or ROTC.</td>
<td>4</td>
</tr>
<tr>
<td>Approved mathematics elective</td>
<td>3</td>
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</tr>
<tr>
<td>Physical sciences electives (sciences minor: see &quot;Sequence in Subject-Matter Fields&quot;)</td>
<td>6</td>
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<td></td>
</tr>
<tr>
<td>Electives or ROTC.</td>
<td>2</td>
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<tr>
<td></td>
<td>36</td>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 3135, 3136</td>
<td>6</td>
<td>EDAF 3200</td>
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<tr>
<td>Foreign language courses</td>
<td>6-9</td>
<td>EDCI 3143 or 3145 or 3149</td>
<td>3</td>
</tr>
<tr>
<td>History 2055, 2057</td>
<td>6</td>
<td>EDCI 3635 and minor methods course</td>
<td>15</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
<td>Foreign language courses</td>
<td>0-3</td>
</tr>
<tr>
<td>General education social sciences courses</td>
<td>6</td>
<td>Teaching minor or electives</td>
<td>12</td>
</tr>
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<td>4</td>
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<td>31-34</td>
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<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>EDCI 1000</td>
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<td>EDCI 2040</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>Foreign language courses</td>
<td>12</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>8-10</td>
<td>HPRD 2601 and 1 sem. hr. HPRD elective</td>
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<tr>
<td>General education biological sciences courses*</td>
<td>6</td>
<td>Psychology 2060, 2078</td>
<td>6</td>
</tr>
<tr>
<td>HPRD electives</td>
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<td>General education English courses</td>
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</tr>
<tr>
<td>Mathematics 1021</td>
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<td>Approved mathematics elective</td>
<td>3</td>
</tr>
<tr>
<td>Physical science elective</td>
<td>3</td>
<td>General education physical sciences course</td>
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</tr>
<tr>
<td>Electives or ROTC.</td>
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<td>Electives or ROTC.</td>
<td>4</td>
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<td>33-35</td>
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<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 3135, 3136</td>
<td>6</td>
<td>Economics 2030 or Political Science 2051</td>
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<tr>
<td>Foreign language courses</td>
<td>9-12</td>
<td>EDAF 3200</td>
<td>2</td>
</tr>
<tr>
<td>History 2055, 2057</td>
<td>6</td>
<td>EDCI 3143 or 3145 or 3149</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
<td>EDCI 3635</td>
<td>12</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
<td>Foreign language courses</td>
<td>3-8</td>
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<td>Electives</td>
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<td>Electives</td>
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<td>33-36</td>
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CURRICULUM IN SECONDARY EDUCATION—FRENCH, LATIN, RUSSIAN, OR SPANISH WITH NO TEACHING MINOR (PLAN B)

Students must schedule a two-semester sequence in either a biological or a physical science.
### CURRICULUM IN SECONDARY EDUCATION—MATHEMATICS WITH A TEACHING MINOR (PLAN A)

**TOTAL SEM. HRS.: 138**

Based on test scores, students placed in Mathematics 1023 (5 sem. hrs.) will be required to take 33 sem. hrs. for a mathematics major with a minor. Mathematics majors must have at least 25 sem. hrs. of mathematics courses numbered 1550 or above.

Students must schedule a two-semester sequence in either a biological or a physical science.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1001, 1002 or other biological sciences (sciences minor: see &quot;Sequence in Subject-Matter Fields&quot;)</td>
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</tr>
<tr>
<td>EDCI 1000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>HPRD elective</td>
<td>1</td>
</tr>
<tr>
<td>Physical sciences electives (sciences minor: see &quot;Sequence in Subject-Matter Fields&quot;)</td>
<td>6</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>34</strong></td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Computer Science 1241</td>
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<tr>
<td>EDCI 2040</td>
<td>3</td>
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<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
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<tr>
<td>General education English courses</td>
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<td>General education arts course</td>
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<tr>
<td>Elective or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
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**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>EDCI 3135, 3136</td>
<td>6</td>
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<tr>
<td>HPRD electives</td>
<td>2</td>
</tr>
<tr>
<td>History 2055, 2057</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 2019, 2057, 4005</td>
<td>9</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Teaching minor or electives</td>
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<tr>
<td><strong>TOTAL</strong></td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EDAF 3200</td>
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<tr>
<td>EDCI 3146, 3635, and minor methods course</td>
<td>18</td>
</tr>
<tr>
<td>HPRD 2601</td>
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<tr>
<td>Mathematics 2085, 4181</td>
<td>6</td>
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<tr>
<td>Teaching minor or electives</td>
<td>8</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
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</tbody>
</table>

### CURRICULUM IN SECONDARY EDUCATION—MATHEMATICS WITH NO TEACHING MINOR (PLAN B)

**TOTAL SEM. HRS.: 137**

Based on test scores, students placed in Mathematics 1023 (5 sem. hrs.) will be required to take 45 sem. hrs. for a mathematics major with no minor. Mathematics majors must have at least 25 sem. hrs. of mathematics courses numbered 1550 or above.

Students must schedule a two-semester sequence in either a biological or a physical science.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 1000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>General education biological sciences courses</td>
<td>6</td>
</tr>
<tr>
<td>General education physical sciences courses</td>
<td>6</td>
</tr>
<tr>
<td>HPRD elective</td>
<td>1</td>
</tr>
<tr>
<td>General education social sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Elective or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Subject</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 2040</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550, 1552, 2019, 2057</td>
<td>16</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
</tr>
<tr>
<td>General education English courses</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>Elective or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
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</tbody>
</table>
### CURRICULUM IN SECONDARY EDUCATION—PHYSICS WITH A TEACHING MINOR (PLAN A)

**TOTAL SEM. HRS.: 130**

*Choice of minor may increase total number of hours required.*

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EDCI 1000</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>HPRD elective</td>
<td>1</td>
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<tr>
<td>General education social</td>
<td>6</td>
</tr>
<tr>
<td>Sciences courses</td>
<td>4</td>
</tr>
<tr>
<td>Electives or ROTC.</td>
<td>6</td>
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<tr>
<td><strong>Total</strong></td>
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#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
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<tbody>
<tr>
<td>EDCI 2040, 3135, 3147</td>
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<tr>
<td>Mathematics 2065</td>
<td>3</td>
</tr>
<tr>
<td>Physics 2111, 2221, 2231, 2401</td>
<td>12</td>
</tr>
<tr>
<td>HPRD electives</td>
<td>2</td>
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<tr>
<td>Minor course or elective</td>
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<td><strong>Total</strong></td>
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#### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EDAF 3200</td>
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</tr>
<tr>
<td>EDCI 3146, 3635</td>
<td>15</td>
</tr>
<tr>
<td>HPRD 2601</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics 4022, 4181</td>
<td>6</td>
</tr>
<tr>
<td>General education social</td>
<td>3</td>
</tr>
<tr>
<td>Sciences course</td>
<td>4</td>
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<tr>
<td>Electives</td>
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#### CURRICULUM IN SECONDARY EDUCATION—PHYSICS WITH NO TEACHING MINOR (PLAN B)

**TOTAL SEM. HRS.: 139**

#### FRESHMAN YEAR

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<tr>
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<tr>
<td>EDCI 1000</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>Mathematics 1550, 1552</td>
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<td>Physics 1201, 1202, 1208, 1209</td>
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</tr>
<tr>
<td>HPRD electives</td>
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</tr>
<tr>
<td>Electives or ROTC.</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 3135, 3136</td>
<td>6</td>
</tr>
<tr>
<td>Geology 1001</td>
<td>3</td>
</tr>
<tr>
<td>History 2055, 2057</td>
<td>6</td>
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<tr>
<td>Physics 2209, 2211, 2401, 4132</td>
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<tr>
<td>Psychology 2078</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 1002 or Botany 1002</td>
<td>4</td>
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<tr>
<td>General education humanities course</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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#### SOPHOMORE YEAR

<table>
<thead>
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<tbody>
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<tr>
<td>EDCI 2040</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 2057 or 2065</td>
<td>3</td>
</tr>
<tr>
<td>Physics 2111, 2231</td>
<td>6</td>
</tr>
<tr>
<td>Psychology 2060</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 1001 or Botany 1001</td>
<td>4</td>
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<tr>
<td>General education English</td>
<td>6</td>
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<tr>
<td>Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC.</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>37</strong></td>
</tr>
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</table>

#### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAF 3200</td>
<td>2</td>
</tr>
<tr>
<td>EDCI 3147, 3635</td>
<td>15</td>
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<tr>
<td>Geology 1003, 1601, 1602</td>
<td>5</td>
</tr>
<tr>
<td>HPRD 2601 and 1 hr. HPRD elective</td>
<td>2</td>
</tr>
<tr>
<td>General education social</td>
<td>6</td>
</tr>
<tr>
<td>Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
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</tbody>
</table>
### CURRICULUM IN SECONDARY EDUCATION—SOCIAL STUDIES

**TOTAL SEM. HRS.: 137**

*Students must schedule a two-semester sequence in either a biological or a physical science.*

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1001, 1002 or other biological science</td>
<td>6</td>
</tr>
<tr>
<td>EDCI 1000</td>
<td>3</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>History 1001, 1003</td>
<td>6</td>
</tr>
<tr>
<td>Physical Science 1001 or physical science elective</td>
<td>3</td>
</tr>
<tr>
<td>HPRD electives</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>Approved mathematics elective</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
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#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology 1001</td>
<td>3</td>
</tr>
<tr>
<td>Economics 2030</td>
<td>3</td>
</tr>
<tr>
<td>Economics 3310 or 4010 or 4020</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 3135, 3136</td>
<td>6</td>
</tr>
<tr>
<td>Political Science 2051, 2056</td>
<td>6</td>
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<tr>
<td>HPRD elective</td>
<td>1</td>
</tr>
<tr>
<td>History (American) electives</td>
<td>3</td>
</tr>
<tr>
<td>History (European) electives (3 sem. hrs. above 3000)</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>36</strong></td>
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#### SOPHOMORE YEAR

<table>
<thead>
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<tbody>
<tr>
<td>EDCI 2040</td>
<td>3</td>
</tr>
<tr>
<td>History 2055, 2057, 2071</td>
<td>9</td>
</tr>
<tr>
<td>Physical Science 1002 or physical science elective</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
</tr>
<tr>
<td>Sociology 2001</td>
<td>3</td>
</tr>
<tr>
<td>General education English courses</td>
<td>6</td>
</tr>
<tr>
<td>General education humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>37</strong></td>
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</table>

#### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAF 3200</td>
<td>2</td>
</tr>
<tr>
<td>EDCI 3144, 3635</td>
<td>15</td>
</tr>
<tr>
<td>Geography 2061, 2062, 4001</td>
<td>9</td>
</tr>
<tr>
<td>HPRD 2601</td>
<td>1</td>
</tr>
<tr>
<td>History (American) electives (above 3000)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tbody>
</table>

### CURRICULUM IN SECONDARY EDUCATION—SPEECH WITH A TEACHING MINOR (PLAN A)

**TOTAL SEM. HRS.: 138**

*Students must schedule a two-semester sequence in either a biological or a physical science.*

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1001, 1002 or other biological science (science minor: see ‘Sequence in Subject-Matter Fields”)</td>
<td>6</td>
</tr>
<tr>
<td>Communication Disorders 1080</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 1000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science 1001 or other physical science</td>
<td>3</td>
</tr>
<tr>
<td>Speech Communication 1061</td>
<td>3</td>
</tr>
<tr>
<td>Approved mathematics elective</td>
<td>3</td>
</tr>
<tr>
<td>HPRD electives</td>
<td>2</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
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#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 3135, 3136</td>
<td>6</td>
</tr>
<tr>
<td>History 2055, 2057</td>
<td>6</td>
</tr>
<tr>
<td>Speech Communication 2063</td>
<td>3</td>
</tr>
<tr>
<td>Journalism 1700 or 2720</td>
<td>3</td>
</tr>
<tr>
<td>Theatre 2025, 4125</td>
<td>6</td>
</tr>
<tr>
<td>HPRD elective</td>
<td>1</td>
</tr>
<tr>
<td>Speech elective (4000 level)</td>
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<tr>
<td>Teaching minor or electives</td>
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<tr>
<td><strong>Total</strong></td>
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#### SOPHOMORE YEAR

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>EDCI 2040</td>
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<tr>
<td>Physical Science 1002 or other physical science*</td>
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<td>Psychology 2060, 2078</td>
<td>6</td>
</tr>
<tr>
<td>Speech Communication 2040</td>
<td>3</td>
</tr>
<tr>
<td>Theatre 1020, 2022, 2026</td>
<td>7</td>
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<tr>
<td>General education English courses</td>
<td>6</td>
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<td>Speech elective</td>
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<tr>
<td>Electives or ROTC</td>
<td>4</td>
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<tr>
<td><strong>Total</strong></td>
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#### SENIOR YEAR

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>EDAF 3200</td>
<td>2</td>
</tr>
<tr>
<td>EDCI 3148, 3635, and minor methods course</td>
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<tr>
<td>HPRD 2601</td>
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<td>General education social sciences courses</td>
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**CURRICULUM IN SECONDARY EDUCATION—SPEECH WITH NO TEACHING MINOR (PLAN B)**

**TOTAL SEM. HRS.: 137**

*Students must schedule a two-semester sequence in either a biological or a physical science.*

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Disorders 1080</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 1000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Speech Communications 1062</td>
<td>3</td>
</tr>
<tr>
<td>Biological science electives</td>
<td>6</td>
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<tr>
<td>HPRD electives</td>
<td>2</td>
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<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>General education physical sciences courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved mathematics elective</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
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<td>EDCI 3135, 3136</td>
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<tr>
<td>History 2055, 2057</td>
<td>6</td>
</tr>
<tr>
<td>Journalism 1700 or 2720</td>
<td>3</td>
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<tr>
<td>Speech Communication 2063</td>
<td>3</td>
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<tr>
<td>Theatre 2025, 4125</td>
<td>6</td>
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<tr>
<td>General education social sciences course</td>
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<tr>
<td>Electives</td>
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<tr>
<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology 1003 or Psychology 2040</td>
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<tr>
<td>or Sociology 3601</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 2040</td>
<td>3</td>
</tr>
<tr>
<td>HPRD 2601 and 1 hr. HPRD elective</td>
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</tr>
<tr>
<td>Psychology 2060, 2078</td>
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<tr>
<td>Theatre 2040</td>
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<tr>
<td>General education English courses</td>
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<tr>
<td>Electives or ROTC</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>34</td>
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<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAF 3200</td>
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<tr>
<td>EDCI 3148, 3635</td>
<td>15</td>
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<tr>
<td>Journalism 3720 and/or speech electives (4000-level)</td>
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<tr>
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**CURRICULUM IN SPECIAL EDUCATION (MILD/MODERATE IMPAIRMENTS OPTION)**

**TOTAL SEM. HRS.: 129**

<table>
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<td>Biology 1001, 1002</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>Geography 1001</td>
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<tr>
<td>Mathematics 1021</td>
<td>3</td>
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<tr>
<td>Approved mathematics elective</td>
<td>3</td>
</tr>
<tr>
<td>HPRD elective</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>6</td>
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<tr>
<td><strong>Total</strong></td>
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<td>General education physical sciences course</td>
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<td><strong>Total</strong></td>
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</table>
CURRICULUM IN SPEECH, LANGUAGE, AND HEARING SPECIALIST (K-12)

TOTAL SEM. HRS.: 150

Two hundred clock hours of supervised clinical practicum (Speech 4683) are required for certification. These are to be distributed as follows: a minimum of 25 hours in diagnostics; a minimum of 25 hours in hearing testing and auditory rehabilitation; a minimum of 37.5 hours in language disorders; a minimum of 15 hours in articulation disorders; a minimum of 15 hours in voice disorders; and a minimum of 15 hours in rhythm disorders. Practicum is graded on the same scale as course work, i.e., "A," "B," "C," "D," "F." Credit is not given for a grade of "D" or "F"; practicum courses in which a "D" or "F" is earned must be repeated. Clock hours earned with a case for which "D" or "F" is the final grade may not be counted toward certification.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>EDCI 2025</td>
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<td>HPRD activity courses or HPRD 1600</td>
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<td>Mathematics 1021, 1022</td>
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<td>History 2055, 2057</td>
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<tr>
<td>Zoology 2160</td>
<td>3</td>
<td>Physical Science 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
<td>Psychology 2060</td>
<td>3</td>
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<tr>
<td>General education social sciences courses</td>
<td>6</td>
<td>General education English courses</td>
<td>6</td>
</tr>
<tr>
<td>Elective or ROTC</td>
<td>3</td>
<td>Electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
<td><strong>Total</strong></td>
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<table>
<thead>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Communication Disorders 4150, 4190, 4250, 4253, 4381, 4384, 4590, 4683</td>
<td>24</td>
<td>Communication Disorders 4380, 4382, 4383, 4490, 4683, 4684, 4685</td>
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<td>Experimental Statistics 2201</td>
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<tr>
<td>Psychology 2004, 4070</td>
<td>6</td>
<td></td>
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<tr>
<td>General education humanities course</td>
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<td><strong>Total</strong></td>
<td><strong>40</strong></td>
<td><strong>Total</strong></td>
<td><strong>46</strong></td>
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</table>

SCHOOL OF HEALTH, PHYSICAL EDUCATION, RECREATION, AND DANCE

DIRECTOR: Franks, Professor

PROFESSORS: Broussard, Byrd, Fant, Franks, Magill, Nelson, Thomas

ASSOCIATE PROFESSORS: Carter, Hill, Lee, Norckauer, Powers,

Steben, Worthy

ASSISTANT PROFESSORS: Dodd, Landin

INSTRUCTORS: Anderson, Osborne, Purdy

A major function of the School of Health, Physical Education, Recreation, and Dance is to provide professional preparation experiences for physical education and health teachers, coaches, athletic trainers, and physical fitness specialists. In addition to professional courses, the school offers a wide variety of sport and fitness activity classes that are fundamental to physical education majors, but are also available to other students as electives.

Six semester hours of basic ROTC may be taken as electives in the freshman and sophomore years in all curricula offered by the school.

CURRICULUM IN PHYSICAL EDUCATION

K-12 CERTIFICATION OPTION

TOTAL SEM. HRS.: 135

All students majoring in physical education are required to have a minor and an area of emphasis. Students majoring or minoring in physical education are expected to exhibit competency in eight physical activities prior to graduation. This may be done by passing School of Health, Physical Education, Recreation, and Dance
proficiency tests, receiving credit in advanced standing examinations, or by passing appropriate courses. (The 135 sem. hr. total does not include the requirement for competencies in the eight activities. The number of hours allocated for the minor is an approximation.) The selection of activities must be as follows:

**Team Sports (three of the following):** basketball, flag football, soccer, softball, track & field, volleyball.

**Individual Activities (two of the following):** archery, badminton, bowling, canoeing, golf, gymnastics, martial arts, outdoor living skills, pistol, racquetball, riflery, SCUBA, swimming, tennis, wrestling.

**Conditioning (two of the following):** aerobic dance, aerobic swimming, conditioning exercise, jogging, weight training.

**Dance (one of the following):** ballet, ballroom, children’s rhythms, jazz, international folk, modern.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tr>
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<td>Physics 2001</td>
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<tr>
<td>HPRD 1404</td>
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<td>Psychology 2060</td>
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<tr>
<td>Mathematics 1021, 1022</td>
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<td>Zoology 2160</td>
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<td>General education social sciences courses</td>
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<td>General education English courses</td>
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<td>Minor course**</td>
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<td>Minor course**</td>
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<td>Elective or ROTC</td>
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<tr>
<td>JUNIOR YEAR</td>
<td>SEM. HRS.</td>
<td>SENIOR YEAR</td>
<td>SEM. HRS.</td>
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<td>EDCI 3112* or 3135* and 3136*</td>
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<td>HPRD 3510, 3511, 3516***</td>
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<td>Psychology 4070</td>
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<td>Minor course**</td>
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<tr>
<td>Approved humanities elective</td>
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<td>**</td>
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<td>37</td>
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*Students choosing the elementary physical education emphasis area must schedule EDCI 3112. All other students should schedule EDCI 3135, 3136.

**See details of minor for specific credit hour requirements.

***Prerequisite, competence in eight physical activities (3510, 3511, 3516 must be taken concurrently).

**Emphasis Areas**

**Athletic Training, 6 sem. hrs. from:** HPRD 4503, 4504, 4505

**Coaching, 6 sem. hrs. from:** HPRD 2515, 2516, 2517, 2518, 2519, 2525, 2526, 4503

**Dance, 6 sem. hrs. from:** HPRD 1127, 1131, 1132, 1134, 1153, 1227, 1231, 1234, 1253, 1327, 1331, 1353, 2801, 3802, 3803, 4804, 4805

**Elementary Physical Education, 6 sem. hrs. from:** HPRD 1133 or 1134, 2507, 2508, HEC 2055 (This emphasis requires two dance activities; 2508 must be in HPRD 1133 or 1134.)

**Fitness Studies, 6 sem. hrs. from:** HPRD 3533, 3534, 3538

**Physical Education for the Handicapped, 6 sem. hrs. from:** HPRD 3540, 3541, 4540

**FITNESS STUDIES (NON-CERTIFICATION OPTION)**

**TOTAL SEM. HRS.: 136**

<table>
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<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Chemistry 1001, 1002</td>
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<td>HPRD activity course</td>
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<td>Mathematics 1021, 1022</td>
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<td>Humanities elective</td>
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<td>Physics 2001</td>
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<td>Psychology 2000</td>
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JUNIOR YEAR

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<td>Physics 2002, 2108</td>
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SENIOR YEAR

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<td>Sociology 2201</td>
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</table>

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UNIVERSITY LABORATORY SCHOOL

PRINCIPAL: Fox, Associate Professor

ASSISTANT PROFESSORS: Guillot, Hope (Assistant Principal)

INSTRUCTORS: Ater, Barton, Bossier, Cain, Cowart, Davis, Delacroix, Fabre, Faerber, Fowler, Freiberg, Furr, Garner, Granier, Green, Hallman, Harrell, Harris, Harroun, Hilton, Hurst, Jendrzejewski, Mackey, McCulla, McHardy, Maddox, Minchew, Morrison, Norton, O'Brien, Rector, Roberts, Schumm, Scott, Sessions, Stelly, Tate, Tonore, Tucker, Turner, Wacker, White

The University Laboratory School, an integral part of the College of Education, is maintained for observation, research, and pre-service field experiences in grades K through 12. The Laboratory School, therefore, maintains a staff of teachers for the purpose of giving instruction to children, demonstrating teaching procedures to student teachers and observers, developing innovative programs, conducting educational research, and acquainting pre-service and in-service teachers with approved and tested teaching procedures and viewpoints.

The Laboratory School serves as a demonstration center for educational methodology. Graduate and undergraduate students observe and participate in the use of instructional and testing materials. Graduate students and university faculty have opportunities to utilize the school for research studies.

A limited number of pupils can be accommodated in the Laboratory School. The admission process is designed to provide a diverse student population representative of the general population. Students who attend the Laboratory School must reside with their parents.

A registration fee is charged for each pupil in grades K through 12. These fees are payable in advance in September and January.
The College of Engineering prepares individuals for professional careers in engineering research, development, design, operation, or management in industry, business, education, and government. As the problems of society become more complex and interdisciplinary in nature, a broad professional education is necessary for the engineer to meet these challenges. Solutions to societal problems require the development and application of technology within constraints established by economic, social, institutional, and political considerations. The College of Engineering addresses these issues through its departmental programs which require that graduates, in addition to being educated in their chosen engineering discipline and in general engineering fundamentals, possess a thorough understanding of mathematics, the physical and biological sciences; and have a strong background in English composition, the arts, humanities, and social sciences.

The College of Engineering includes seven degree-granting departments, the Hazardous Waste Research Center, the Water Resources Research Institute, and the Remote Sensing and Image Processing Laboratory. Activity within the college is centered in the Center for Engineering and Business Administration (CEBA) Building. The faculty is actively engaged in design, research, and problem solving in well-equipped facilities for research and teaching. Departments within the college, the various undergraduate curricula, and the degrees which are offered are shown in the chart on the following page.

PROFICIENCY IN MATHEMATICS AND PHYSICS

Mathematical proficiency is essential to engineers and to engineering education. Accordingly, students who plan to study engineering should schedule all appropriate mathematics courses available to them in high school. Placement tests are given to all incoming freshmen, and those who do not qualify to begin university mathematics at the level prescribed in the freshman engineering program cannot expect to complete requirements for a degree in the nominal length of time. Credit for mathematics courses preliminary to analytical geometry and calculus may not be applied toward the Bachelor of Science degrees in the College of Engineering.

Proficiency in college-level mathematics and physics is essential to successful completion of upper-division engineering courses. Students must earn a minimum grade of “C” in MATH 1550, 1552, and PHYS 2101 before they enroll in any engineering course numbered above 2999. However, PETE 3025 may be taken. More stringent requirements may be imposed by individual departments. Refer to the curricular requirements of each department.
ADMISSION REQUIREMENTS

Admission to the University does not constitute acceptance into the College of Engineering or into a particular curriculum within this college. Where enrollment may exceed the facilities of a department, it may be necessary to limit the size of the classes in that curriculum. In such cases the department establishes criteria for admission with approval of the University administration.

Students may enter the college from Junior Division or by transfer from another division of LSU or from another approved college or university.

Junior Division students will be admitted to the college if they meet the following conditions:
1. completion of 24 or more semester hours of credit in courses numbered 1000 or above;
2. a grade-point average of 2.00 or better; and
3. credit for or eligibility to schedule analytical geometry and calculus.

Students from other campuses of the LSU System will be admitted if they comply with the above requirements for admission of Junior Division students.

Students from other institutions who have completed 24 sem. hrs. and meet the mathematics requirement as listed above for Junior Division students will be admitted if they have earned at least a 2.50 average on course work attempted at U.S. institutions. In exceptional cases, transfer students who have earned more than a 2.00 average but less than a 2.50 may be admitted after the dean's evaluation of their overall records. Such an evaluation will be performed only upon the written request of the student seeking to transfer into the college. All requests for review of the student's academic record should be submitted no later than July 1 for fall semester admission, December 1 for spring semester, or May 1 for summer term.

Applicants who have failed to earn a 2.50 semester average on courses scheduled in the last two semesters of college attendance or who have a scholastic record which, if earned at LSU, would have resulted in suspension in their first period of attendance at LSU, may be denied admission even though their overall average may meet scholastic requirements for admission.

Students who have transferred from other institutions into other senior colleges at LSU without meeting the 2.50 average required for admission to the College of Engineering will be considered as transfer students from other institutions when applying for admission to this college.
TRANSFER OF CREDIT FROM OTHER INSTITUTIONS

In this college, transfer credits accepted by the Office of Admissions shall be valid for degree credit only to the extent to which they satisfy courses in the curricula of the college. Transfer credits in junior and senior engineering courses will be accepted only if taken in programs accredited by the Accreditation Board for Engineering and Technology. Credit in courses in which grades of “D” have been earned is not accepted for transfer toward the degree requirements, if the course is taken outside the LSU System.

Students enrolled in this college who wish to obtain credits from other colleges or universities (including other campuses of the LSU System) and who plan to use such credits toward degree requirements must have a 2.00 average and obtain prior approval in writing on a specific-course basis from the dean.

DEGREE REQUIREMENTS OF THE COLLEGE

It is the student’s responsibility to qualify for the bachelor’s degree by meeting these requirements:

1. completing one of the established curricula—any substitutions from the curricula as published must have written approval of the department chairman and the dean;
2. achieving a 2.00 average, as required by the University, for all work taken at LSU and on all work attempted at U.S. institutions;
3. achieving a 2.00 average on all courses in the major field at LSU and on all work attempted in the major field at U.S. institutions;
4. successfully completing a minimum of 30 semester hours while enrolled in the department; these hours must be required courses in the curriculum or electives approved by the department chairman;
5. initiating the checkout procedure with the departmental advisor in the semester prior to the one in which the degree is to be awarded; the checkout is completed only when approved by the Office of the Dean and the Office of Student Records and Registration; and
6. demonstrating proficiency in English; proficiency is defined as a grade of “A” or “B” in English 1002 or 1003 (1005 for international students). A student who earns a grade of “C” or “D” in English 1002 (1005 for international students) may become proficient by (1) earning a grade of “A” or “B” or (2) earning a grade of “C” or better in English 2001, or earning a grade of “C” or better in English 2002 (2102 for international students). The student must be continually enrolled in at least one of the above English courses until proficiency is achieved.

COLLEGE POLICY FOR “D” GRADES AND REPETITION OF COURSES

With the exception of English 1002, only those courses in which grades of “D” or “F” were earned may be repeated. A student who earns a “D” or “F” in a course in which a minimum grade of “C” is required must register for the course again in the next regular semester in which the student is enrolled and the course is offered. Students within 24 hours of graduation cannot duplicate sophomore-level courses in the major field.

REINSTATMENT

A student dropped from the University who seeks readmission to this college must submit an application for reinstatement. The dean, with recommendation of the department in which the student seeks admission, will determine whether readmission is granted and may prescribe the conditions for reinstatement.

CORRESPONDENCE CREDITS

Students may not concurrently enroll in correspondence and classroom courses during the fall or spring terms unless they are in their final semester before graduation. Graduating seniors enrolled in correspondence study must have completed all examinations 30 days prior to commencement. The name of any student who has not completed correspondence study by that time will be removed from the list of candidates for the degree. Non-degree candidates who are not concurrently enrolled
in classroom courses may, with approval, enroll in correspondence study. These courses must be completed and the grades reported by the first day of class in the next regular semester of attendance. Those who do not will be terminated in the course. Extensions are not granted. Students on scholastic probation must complete all correspondence study courses, and have their grades posted, prior to registration for their next term in the University.

MINOR FIELD REQUIREMENTS (OPTIONAL)

A student in the College of Engineering may earn a minor in a second field. The specific requirements are determined by the department offering the minor.

REQUIREMENTS FOR SECOND BACHELOR'S DEGREE

Students who hold one baccalaureate degree may wish to obtain a baccalaureate degree in engineering as a second degree. To do so, they must complete a minimum of 30 semester hours, in addition to the requirements of the first discipline, and must satisfy all requirements for the second discipline, as shown in the curriculum. They must attain a minimum 2.00 average on all work scheduled while enrolled in the College of Engineering and on all work subsequent to receipt of the first degree. A student whose first degree was obtained elsewhere must also satisfy all the admission requirements of the college, as previously listed.

GRADUATE PROGRAMS

The college offers the Master of Science, the Master of Engineering, and the Doctor of Philosophy degrees through the Graduate School. The Master of Science program emphasizes fundamental theory and is mostly research-oriented. It is offered in agricultural, chemical, civil, electrical, industrial, mechanical, nuclear, and petroleum engineering. The Master of Engineering is an application-oriented degree elected by students who wish preparation for engineering practice beyond the baccalaureate degree. Students may concentrate in the above fields or in interdisciplinary areas such as materials or environmental engineering. The Doctor of Philosophy degree is awarded in the fields of chemical engineering, civil engineering, electrical engineering, mechanical engineering, petroleum engineering, and engineering science. For additional information, consult the Graduate School Catalog.

THE ENGINEERING COUNCIL

The Engineering Council is a college-wide student organization whose members are the elected representatives of the various professional and honorary engineering student organizations. In addition to the general goal of bridging organizational gaps between the different departments, the Engineering Council sponsors several student activities including an engineering newsletter, and the annual Engineers’ Week.

SPECIAL PROGRAMS

The college offers a cooperative work/study program in civil, chemical, industrial, mechanical, or electrical and computer engineering. Students alternate periods of classroom attendance and employment in industry; however, no credit is given for employment. It is the student’s responsibility to secure placement in industry. The academic requirements are identical to those for regular four-year students, but because of the time spent in industry the student will take five years or longer to complete them. To enter the cooperative program, a student must have been registered in the college for at least one semester and must have: (1) passed 45 semester hours including all essential courses of the freshman program, and (2) earned an overall grade-point average of 2.40. Students should register with the University as cooperative students during their periods of employment in order to maintain a continuing student status.

The College of Engineering conducts a Drafting Institute, in cooperation with the Division of Continuing Education, which is designed to prepare students to work as draftsmen. The course includes traditional drafting as well as modern computer graphics and computer-aided design. By taking additional university courses, they can acquire the competence needed for employment as
engineering technicians or engineering technologists. Upon completion of the institute, any students continuing to take courses on a regular or part-time basis on the LSU campus may take advanced-standing examinations and receive degree credit for the following: Engineering Graphics 1001, 2154, 2162, and 3105. For information about the Drafting Institute or the procedures for obtaining this credit, students should contact the Department of Industrial Engineering.

Departments and Curricula

Each curriculum is designed to include the University general education requirements as follows:

1. English composition—English 1001 and 1002. International students may substitute English 1004 and 1005. Honors students may elect Honors 1001 or 1011 in place of English 1002.
2. Analytical reasoning—Math 1021 is considered to be preliminary to the engineering curricula. Credit is usually obtained by placement. MATH 1550 or the equivalent honors course, MATH 1551, completes the requirement.
3. Natural sciences—This requirement is met in normal course. Chemistry 1201 and 1202 or Physics 2101 and 2102 are marked in the curricula. The equivalent honors courses are Chemistry 1431 and 1432, and Physics 1201 and 1202.
4. Biological sciences—Three-hour elective in all curricula except biological and agricultural engineering, which specifies Biology 1001.
5. Arts, humanities, and social sciences courses must meet the requirements of the Accreditation Board for Engineering and Technology as well as those of the University. Therefore, the following restrictions are to be observed in their selection:
   a) courses must be selected from the current official list (approved by the college) of arts, humanities, and social sciences electives which is available in the dean's office. Some courses on the University list are not on the college list.
   b) one three-credit course must be taken in the arts.
   c) three three-credit courses must be taken in the humanities.
   d) two three-credit courses must be taken in the social sciences.
   e) a maximum of six semester hours may be taken at the 1000 level.
   f) at least two courses must be selected from the same department.
   g) individual curricula may have specific course requirements, e.g., Economics 2030 as a required social sciences course.

In each curriculum the courses which are to be used to fulfill the general education requirement are marked with an asterisk.

Transfer students must meet the above requirements in the selection of arts, humanities, and social sciences electives.

All technical electives must have approval of the chairman of the engineering department in which the student registers. Under no circumstances may electives be chosen from remedial courses or courses which are preliminary to the first courses in engineering. Students are advised to check with their departments on the selection of these electives.

Six hours of credit earned in ROTC may be applied toward satisfaction of unrestricted electives in all engineering curricula.

DEPARTMENT OF AGRICULTURAL ENGINEERING

HEAD: Nye, Professor

OFFICE: 149 E.B. Doran Agricultural Engineering Building

TELEPHONE: (504) 388-3153

PROFESSORS: Braud, Brown, Faulkner, Muller, Nye, Stipe, Verma, Wright

ASSOCIATE PROFESSORS: Bengtson, Edling, Lawson, Parish, Sistler

ASSISTANT PROFESSORS: Beauvais, Hoover, Mailander, Robbins, Velupillai, Wells

INSTRUCTORS: Langlois, Weigand

ADJUNCT FACULTY: Carter, Fouss, Rogers

Industrial and Agricultural Technology

For the curriculum in Industrial and Agricultural Technology, see the "College of Agriculture" section of this catalog.
Biological and Agricultural Engineering

Biological and Agricultural Engineering provides students the opportunity to apply engineering and biological fundamentals to the solution of problems dealing with living systems. The curriculum provides students with a strong background in the physical and biological sciences. This program is a modification of the previously offered agricultural engineering curriculum.

Areas of specialization are biological systems; food processing; environmental systems and natural resource engineering; and machine design. Students who wish to pursue post-baccalaureate degrees in the medical/dental professions will satisfy all prerequisites for admission into such programs by completing a biological systems specialization, while concurrently completing an accredited engineering program. The food and crop processing specialization emphasizes engineering aspects of food processing from harvest to human consumption. The environmental systems area includes water and natural resource management, and pollution control. A specialization in machine design prepares students for mechanical design of the equipment used in agricultural production.

Biological and agricultural engineers employ energy, materials, and mechanisms in the most effective manner for supplying food, clothing, and water for peoples’ needs. They also plan, design, and test engineering systems for agricultural and biological industries. Typical endeavors include mechanization of agricultural production equipment; development of new food processing and packaging systems; environmental control; design of agricultural structures; and development of aquacultural systems.

Excellent career opportunities for biological and agricultural engineers are found with producers of agricultural machinery; utility companies; the U.S. Army Corps of Engineers; the USDA; university research and extension services; and engineering consulting firms.

The demand for biological and agricultural engineers will continue to exceed the supply because of the constraints of energy availability, increasing environmental quality concerns, and the increasing need for food and fiber production.

The Department of Agricultural Engineering is jointly administered by the Colleges of Engineering and Agriculture, with the biological and agricultural engineering curriculum offered through the College of Engineering. This curriculum has had continual accreditation by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology since 1952.

**CURRICULUM IN BIOLOGICAL AND AGRICULTURAL ENGINEERING**

**TOTAL SEM. HRS.: 136-139**

*General education required courses.*

**Engineering Design Electives (select four from this group):** Biological and Agricultural Engineering 3374, 4304, 4306, 4307, 4330, 4354, 4360, 4374, 4380; Mechanical Engineering 4133.

**Basic Sciences Electives:** Agronomy 2051; Biology 1003, 1004; Biochemistry 4087; Chemistry 2261, 2262, 2364; Food Science 4000, 4060, 4075; Microbiology 2051; Physics 2108, 2109.

**Engineering Science Electives:** Civil Engineering 1510, 1550, 2250.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Biology 1001,* 1002</td>
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<td>English 3002 or ROTC</td>
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<td>English 1001,* 1002*</td>
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<td>Physics 2101, 2102</td>
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<td>Computer Science 2262 or ROTC</td>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<td>Biological &amp; Agricultural Engineering 3104, 4305, 4190, 4292</td>
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<td>Electrical Engineering 3950</td>
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<td>Civil Engineering 3405, 3410</td>
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<td>Electrical Engineering 2950</td>
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DEPARTMENT OF CHEMICAL ENGINEERING

INSTRUCTOR: Cypress

Chemical engineers apply scientific principles to the solution of problems involving chemical and physical change. They design, install, and operate complete processes for the efficient production of materials used by society. Chemical engineers today play a direct professional role in such diverse areas as food processing, biomedical engineering, oceanography, pollution control and abatement, systems engineering, energy, instrumentation, automation, and many others. Thus, chemical engineering provides excellent training for a wide variety of careers.

Louisiana and the Gulf Coast region lead the nation in growth of the chemical and petroleum industries. In these industries, about 40 percent of the professional staffs are chemical engineers. In addition to providing technical leadership for the chemical industries, chemical engineers are a major source of management personnel. Chemical engineering also offers many opportunities for independent enterprise.

Chemical engineers must combine many different abilities in their work. These include an aptitude for chemistry, physics, mathematics, and economics; the capability of presenting decisions to management in a lucid and concise manner; and the ability to bring scientifically oriented talents to bear on practical problems.

The undergraduate curriculum is concerned primarily with fundamentals, and basic courses in mathematics, chemistry, and chemical engineering are required. Elective courses permit in-depth study in a particular area of chemical engineering. For example, students wishing to specialize ultimately in pollution control or biochemical engineering may plan their programs to give them a grounding in these fields. The curriculum requires a liberal amount of arts, humanities, and social sciences electives to satisfy the University's general education requirements and to prepare students for the responsibilities of citizenship aside from a technical career. The undergraduate curriculum is oriented toward the use of computers which have become increasingly important to engineers.

Chemical engineers are among the highest-salaried graduates in engineering across the nation. In the foreseeable future, it is predicted that the supply of chemical engineers available to industry will not match the demand; consequently, the salary and job opportunities should continue to be favorable.

The chemical engineering curriculum has held continuous accreditation by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology since 1939.

3/2 Program in Chemistry and Chemical Engineering: The Department of Chemistry at Southern University and the Department of Chemical Engineering at LSU offer a dual degree in chemistry and chemical engineering. The student, after successful completion of the required courses in both curricula, will be awarded a Bachelor of Science degree in chemistry from Southern University and a Bachelor of Science in Chemical Engineering degree from LSU. The first three years of course work are taken principally at Southern University and the last two years principally at LSU.

CURRICULUM IN CHEMICAL ENGINEERING

TOTAL, SEM. HRS.: 135

HRS.: 135

A grade of "C" or better in each of the basic sciences preparatory courses completed—Chemistry 1201 and 1202, Physics 1201 or 2101 and 1202 or 2102 and Mathematics 1550, 1552, and 2065—is required before students may register for any chemical engineering course other than Chemical Engineering 2171.

*General education required courses.

FRESHMAN YEAR

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<tr>
<th>COURSE</th>
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<tr>
<td>Chemistry 1201*, 1202*, 1212</td>
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<td>English 1001*, 1002*</td>
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SOPHOMORE YEAR

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<td>Chemical Engineering 2171, 2176</td>
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<tr>
<td>Chemistry 2261, 2262, 2364</td>
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<tr>
<td>Civil Engineering 2450</td>
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<td>Computer Science 2260</td>
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<td>Economics 2030*</td>
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<td>Mathematics 2065</td>
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<td>Physics 1202 or 2102</td>
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33
JUNIOR YEAR  SEM. HRS.
Chemical Engineering 3172, 3173, 4101, 4102, 4104 ........................................ 16
Chemistry 4491, 4492 ........................................ 6
Electrical Engineering 2950 ........................................ 3
English 3002 or ROTC ........................................ 3-4
Mechanical Engineering 2733 ........................................ 3
General education arts/humanities/social sciences course* ........................................ 3

34-35

SENIOR YEAR  SEM. HRS.
Chemical Engineering 4151, 4171, 4172, 4173, 4190, 4198 ........................................ 18
Advanced chemistry elective ........................................ 3
Chemical engineering design elective ........................................ 3
Chemical engineering laboratory electives ........................................ 2
Chemical engineering sciences elective ........................................ 3
General education arts/humanities/social sciences course* ........................................ 3
General education biological sciences course* ........................................ 3

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DEPARTMENT OF CIVIL ENGINEERING

CHAIRMAN: Seals, Professor

PROFESSORS: Adrian, Arman, Avent, Gopu, Seals, Singh, Tumay
Suhayda, Tittlebaum, Voyiadjis
ASSOCIATE PROFESSORS: Acar, Alawady, Field, Hill, Juran, Malone, Poplin, Roy,

INSTRUCTORS: Kelly, Vaughn

Civil engineering is the profession in which a knowledge of the mathematical and physical sciences gained by study, experience, and practice is applied with judgement to develop economic ways to utilize materials and forces of nature for the well-being of people in creating, improving, and protecting the environment; in providing facilities for community living, industry, and transportation; and in providing structures for the use of humanity.

The civil engineering curriculum is designed to provide a broad but integrated education in the scientific, mathematical, engineering, socio-humanistic, and ethical principles that are the basis for a successful professional career. The curriculum also provides sound preparation for continued professional development through informal studies, continuing education programs, or graduate study in a specialized engineering or related field. The philosophy of the faculty is to offer students a quality education to prepare them to enter any of the fields of civil engineering. The department assists students in achieving the technological and interpersonal competencies, as well as a sensitivity to and understanding of socio-political issues, necessary for the professional practice of civil engineering.

Civil engineering graduates can practice in the fields of structural, transportation, hydraulic, water resources, geotechnical, construction, environmental, and public works engineering. They are employed by private industry as well as by local, state, and federal governmental agencies. Many are employed by private consultants and ultimately establish their own consulting engineering practices.

Typically, the successful civil engineer is a registered professional engineer who affiliates with various professional and technical societies. The department recommends that its students join and participate in the student chapter of the American Society of Civil Engineers and encourages each senior to take the Fundamentals in Engineering examination which is a partial requirement for registration as a professional engineer.

The civil engineering curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

CURRICULUM IN CIVIL ENGINEERING

TOTAL SEM. HRS.: 137

*General education required courses.

Students must have 3 hrs. prior credit for ROTC before substituting ROTC for English 3002.

FRESHMAN YEAR  SEM. HRS.
Chemistry 1201*, 1202* ........................................ 6
Civil Engineering 1510, 1550 ........................................ 4
Engineering Graphics 1001 ........................................ 2
English 1001*, 1002* ........................................ 6
Geology 1001 ........................................ 3
Mathematics 1550*, 1552 ........................................ 10
General education biological sciences course* ........................................ 3

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SOPHOMORE YEAR  SEM. HRS.
Civil Engineering 2200, 2450, 2720 ........................................ 9
Civil Engineering 2710 or ROTC ........................................ 1
Economics 2020* or 2030* ........................................ 3
Electrical Engineering 2950 ........................................ 3
Industrial Engineering 2060 or ROTC ........................................ 2
Mathematics 2057, 2065 ........................................ 6
Physics 2101, 2102 ........................................ 6
General education arts/humanities/social sciences course* ........................................ 3
Approved basic sciences laboratory elective ........................................ 1

34
Junior Year

<table>
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<th>Course</th>
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<tr>
<td>Civil Engineering 2250, 3100, 3110, 3200, 3300, 3350, 3400, 3410, 3415, 3600, 3700</td>
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<tr>
<td>Industrial Engineering 3710</td>
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<tr>
<td>Mechanical Engineering 3333</td>
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Senior Year

<table>
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<tr>
<th>Course</th>
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<tr>
<td>Civil Engineering 4410</td>
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<td>Mechanical Engineering 3133</td>
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<tr>
<td>Approved civil engineering analysis elective</td>
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<td>Approved civil engineering design electives</td>
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<tr>
<td>Approved civil engineering project elective</td>
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<tr>
<td>General education arts/humanities/social sciences courses*</td>
<td>12</td>
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<tr>
<td>Approved technical electives</td>
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</tbody>
</table>

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Department of Electrical and Computer Engineering

Chairman: Marshak, Professor

Professors: Harlow, Kak, Kinney, Marshak, Porter, Tan, Voss

Associate Professors: Ajmera, Aravena, Cho, Ho, Nethken, Richards

Assistant Professors: Chen, El-Amawy, Hegde, Klinkhachorn, Kousik, Latif, G. Lee, H. Lee, Leu, Mirbod, Naraghii-Pour, Skavantzos

Electrical and computer engineering students receive a thorough foundation in mathematics, physics, chemistry, and introductory engineering during the first two years. Emphasis during the junior and senior years is on advanced engineering concepts and design. This prepares students for excellent career opportunities in areas such as digital systems, computer engineering, energy conversion, power systems, communications, network design, control systems, electronics, semiconductor devices, signal processing, and electromagnetics, as well as many interdisciplinary areas. With the background in fundamental theory and laboratory practice provided in the curricula, graduates are prepared to contribute and progress in their chosen technological fields.

The basic curriculum provides a broad background in electrical engineering through the required course sequence and an in-depth background through the elective course programs. The electrical engineering electives permit students to develop a program in one of the four areas of technical specialization, as outlined below. The approved technical electives permit students to obtain more depth in the chosen area, explore other areas of electrical engineering, or explore other fields of engineering and science. The basic curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

A computer engineering option is available for students desiring more comprehensive knowledge of the principles that underlie the organization, design, and application of computer systems. This option is not ABET accredited.

A student must take all of the required courses in either the basic electrical engineering curriculum or the computer engineering option, as stated below, in order to obtain a degree in either of these fields.

Students interested in continuing their education through master's and doctoral programs are advised to seek academic counseling early and to make judicious use of their undergraduate electives.

Curriculum in Electrical Engineering

Total SEM. HRS.: 135

A grade of "C" or better in Electrical Engineering 2120, Mathematics 1552, and Physics 2102 is required before students may register for any electrical engineering course other than Electrical Engineering 2720.

In order to develop expertise in at least one of the many areas of electrical engineering, elective courses may be concentrated in one of the following four areas of specialization:

1. Digital Systems—digital system design, microcomputers, and computer applications;
2. Electronics—theory, design, and fabrication of solid-state devices and design of electronic circuits and systems;
3. Energy—energy conversion, power systems design and analysis, and control of power systems; and

Additional information concerning these areas and guidelines for selecting electives are available in the departmental office.

*General education required courses.

Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
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<td>Chemistry 1201</td>
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<td>English 1001*, 1002*</td>
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<td>General education biological sciences course*</td>
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<td>General education arts/humanities/social sciences course*</td>
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<td>SPCM 2061 or ROTC</td>
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Sophomore Year

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<th>Course</th>
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<tr>
<td>Electrical Engineering 2120, 2130, 2230, 2231, 2720</td>
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<tr>
<td>Mathematics 2057, 2090</td>
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<tr>
<td>Physics 2102*</td>
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<tr>
<td>PHIL 2018 or ROTC</td>
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### CURRICULUM IN ELECTRICAL ENGINEERING

(Computer Engineering Option)

**TOTAL SEM. HRS.: 135**

A grade of ‘C’ or better in Electrical Engineering 2120, Mathematics 1552, and Physics 2102 is required before a student may register for any electrical engineering course other than Electrical Engineering 2720.

#### FRESHMAN YEAR

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#### JUNIOR YEAR

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#### SENIOR YEAR

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<td>Electrical engineering design electives</td>
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#### SOPHOMORE YEAR

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<tr>
<td>Electrical Engineering 2120, 2130, 2230, 2270</td>
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<td>Mathematics 2057, 2090</td>
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<td>Physics 2102*</td>
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#### SENIOR YEAR

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<tr>
<td>Approved technical electives</td>
<td>9</td>
</tr>
<tr>
<td>General education arts/humanities/social sciences courses*</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

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### DEPARTMENT OF INDUSTRIAL ENGINEERING

**ACTING CHAIRMAN:** Mann, Professor

**PROFESSORS:** Biles, Mann, Zohdi

**ASSOCIATE PROFESSORS:** Bruckner, McIlhenny, Pruett, Ray

**ASSISTANT PROFESSORS:** Aghazadeh, Graves, Lee, Parks, Waikar

**INSTRUCTORS:** Thomas, Wilson

Industrial engineering involves application of scientific principles to design, installation, and improvement of integrated systems of people, materials, and equipment to provide the most effective operating and work procedures. It combines principles of human behavior with concepts of engineering procedure or analysis. Industrial engineers engage in work measurement, methods improvement, ergonomics and human factors engineering, statistical quality control, plant layout, engineering economy, production control, manufacturing process, industrial automation and robotics, material handling, cost and budgetary control, and operation research studies.

The industrial engineer combines the abilities of an engineer and a manager. These include an aptitude for mathematics, statistics, and economics, as well as for the basic engineering sciences; an interest in all kinds of jobs and the machines and people who produce goods; and the ability to use technical knowledge in a practical way.
Industrial engineers' background, experience, and training give them wide acquaintance with industrial problems. Recent developments, such as widespread industrial interest in operations research and automatic data processing, have made the industrial engineers' entrance into management even more likely, for their training gives familiarity with quantitative methods of production control. At present, the demand for industrial engineers exceeds the supply, thus assuring job opportunities.

The industrial engineering curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

**CURRICULUM IN INDUSTRIAL ENGINEERING**

**TOTAL SEM. HRS.: 135**

**Industrial Engineering Electives:** Choose one from Industrial Engineering 4362 or 4382; choose two from Industrial Engineering 4462, 4485, 4486, 4490, 4540, 4607, 4785.

*General education required courses.*

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201*, 1202*, 1212</td>
<td>8</td>
</tr>
<tr>
<td>Engineering Graphics 1001</td>
<td>2</td>
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<tr>
<td>English 1001*, 1002*</td>
<td>6</td>
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<tr>
<td>Mathematics 1550*, 1552</td>
<td>10</td>
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<tr>
<td>Physics 2101, 2108</td>
<td>4</td>
</tr>
<tr>
<td>Speech Communication 1061 or ROTC</td>
<td>2-3</td>
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<tr>
<td></td>
<td>32-33</td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Civil Engineering 2450</td>
</tr>
<tr>
<td>Economics 2030*</td>
</tr>
<tr>
<td>Electrical Engineering 2950</td>
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<tr>
<td>Industrial Engineering 2060, 2154, 2603</td>
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<tr>
<td>Mathematics 2057, 2090</td>
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<tr>
<td>Physics 2102, 2109</td>
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<td>General education biological sciences course*</td>
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<tr>
<td>General education arts/humanities/social sciences course*</td>
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**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Civil Engineering 3400</td>
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<tr>
<td>English 3002 or ROTC</td>
</tr>
<tr>
<td>Electrical Engineering 3950, 3951</td>
</tr>
<tr>
<td>Industrial Engineering 3201, 3302, 4425, 4461, 4510</td>
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<td>Approved industrial engineering elective</td>
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<tr>
<td>General education arts/humanities/social sciences courses*</td>
</tr>
<tr>
<td></td>
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</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Engineering 3599, 4419, 4453, 4480, 4511,4516</td>
</tr>
<tr>
<td>Mechanical Engineering 2733, 3333</td>
</tr>
<tr>
<td>Approved industrial engineering electives</td>
</tr>
<tr>
<td>General education arts/humanities/social sciences courses*</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

**DEPARTMENT OF MECHANICAL ENGINEERING**

CHAIRMAN: Lester, Professor

PROFESSORS: Lester, Maples, McPhate, Raman, Sabbaghian, Thompson, Whitehouse

ASSOCIATE PROFESSORS: Acharya, Brewer, Catalano, Courter, Cundy, Eaton, Yannitell

ASSISTANT PROFESSORS: Beard, Charalamopoulos, Doucet, Meletis, Mounfield, Myrum, Nikitopoulos, Pang, Waggenspack

Mechanical engineering emerged as a new field of engineering during the Industrial Revolution when many labor-saving inventions were designed and built in England between 1750 and 1850. The role of the mechanical engineer has expanded dramatically in recent years and nearly 10,000 new graduates are now needed yearly.

All large industries employ mechanical engineers. Among those who regularly hire graduates from LSU are automotive, industrial machinery, oceanographic, power, chemical, textile, petroleum, computer, metal manufacturing, electronic, paper and wood product, and aerospace corporations.

In these industries, mechanical engineers perform a large variety of functions; therefore, the education of a mechanical engineer is necessarily broad. Mechanical engineers use the basic sciences (such as chemistry and physics), mathematics, computer programming, oral and written communication skills, and humanities and social sciences. Almost invariably, mechanical engineers rely heavily on a firm understanding of mechanics and thermal sciences to analyze the conversion and transmission of energy in its many forms.

Mechanical engineers use this knowledge in research by attempting to solve new problems, in development by altering a system to fit a new need, and in design to describe in detail a machine, system, or approach to
a problem. Testing, manufacturing, operation and maintenance, marketing and sales, and administration also require large numbers of mechanical engineers. Mechanical engineering, a technical professional field, offers challenge and opportunity for those prepared for hard work, both in school and during a lifetime of service.

The mechanical engineering curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

**CURRICULUM IN MECHANICAL ENGINEERING**

**TOTAL SEM. HRS.: 138**

A grade of "C" or better is required in Chemistry 1202, Mathematics 1552, and Physics 2101 (or equivalent courses) before a student may enroll in Mechanical Engineering 2333.

**ROTC is optional. If it is not taken in the freshman year, an approved technical elective must be scheduled in the senior year.**

*General education required courses.*

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201*, 1202*, 1212</td>
<td>8</td>
</tr>
<tr>
<td>Engineering Graphics 1001</td>
<td>2</td>
</tr>
<tr>
<td>English 1001*, 1002*</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1550*, 1552</td>
<td>10</td>
</tr>
<tr>
<td>Physics 2101, 2108</td>
<td>4</td>
</tr>
<tr>
<td>General education arts/humanities/social sciences course*</td>
<td>3</td>
</tr>
<tr>
<td>ROTC</td>
<td>0-3</td>
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<tr>
<td></td>
<td>33-36</td>
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</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Civil Engineering 2450</td>
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<tr>
<td>Computer Science 2262</td>
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<td>Electrical Engineering 2950</td>
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<tr>
<td>Economics 2030*</td>
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</tr>
<tr>
<td>Industrial Engineering 2603</td>
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<tr>
<td>Mathematics 2057</td>
<td>3</td>
</tr>
<tr>
<td>Mechanical Engineering 2333, 2733, 2833, 3133</td>
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</tr>
<tr>
<td>Physics 2102, 2109</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>34</td>
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**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Civil Engineering 3405</td>
<td>4</td>
</tr>
<tr>
<td>English 3002 or ROTC</td>
<td>3</td>
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<tr>
<td>Electrical Engineering 3950, 3951</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 4037</td>
<td>3</td>
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<tr>
<td>Mechanical Engineering 3602, 3701, 3752, 4133, 4233, 4334, 4433</td>
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<tr>
<td>General education arts/humanities/social sciences course*</td>
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<tr>
<td></td>
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</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Mechanical Engineering 3801, 4143, 4172, 4201, 4202, 4232, 4401, 4611</td>
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<tr>
<td>General education arts/humanities/social sciences courses*</td>
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<tr>
<td>Approved technical electives</td>
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<tr>
<td>General education biological sciences course*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>34-37</td>
</tr>
</tbody>
</table>

**NUCLEAR ENGINEERING**

A graduate program leading to the degree of Master of Science in Nuclear Engineering is available to properly qualified students who have obtained the bachelor’s degree in one of the branches of engineering or physical sciences or have other suitable education and experience. The program aims to develop competence in nuclear engineering and related sciences. The Nuclear Science Center provides facilities for nuclear engineering experiments and research in areas including high-intensity irradiations, nuclear reactions, spectroscopy, radiation shielding and design, radiation embrittlement, radiation chemistry, nuclear reaction analysis, industrial isotope applications, neutron and heat transport, nondestructive testing, health physics, environmental monitoring, radiation protection, and personnel monitoring. Opportunities are provided for research with the LSU System Network Computer Center and to participate in cooperative research programs at the National Laboratories of the United States Department of Energy.

**DEPARTMENT OF PETROLEUM ENGINEERING**

**CHAIRMAN:** Bassiouni, Professor  
**OFFICE:** 3516 CEBA Building  
**TELEPHONE:** (504) 388-5215

**CAMPANILE CHARITIES PROFESSOR OF OFFSHORE MINING AND PETROLEUM ENGINEERING:** Bourgoyne  
**LSU FOUNDATION HOPKINS P. BREAZEALE PROFESSOR:** Desbrandes  
**PROFESSORS:** Bassiouni, Holden
Although the petroleum engineering curriculum is designed primarily for careers in the drilling and production aspects of the petroleum industry, it is suitable for careers in related areas such as ground water hydrology, geothermal energy, solution mining, and underground storage or disposal of fluids. Professional courses in drilling and production, well design, reservoir engineering, petrophysics, well logging, and the phase behavior of hydrocarbon systems follow basic course work in mathematics, chemistry, physics, geology, and the engineering sciences. Attention is given to economic evaluation of drilling and production operations.

The department is active in obtaining summer employment in the petroleum industry for its students. The department also strongly recommends that its students join and participate as student members in the Society of Petroleum Engineers of AIME and take the Engineer-in-Training (EIT) examination during the senior year as preparation for registration as a professional engineer.

The petroleum engineering curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

**CURRICULUM IN PETROLEUM ENGINEERING**

**TOTAL SEM. HRS.: 135**

*Mathematics 1550, 1552, and Physics 2101, 2102 each requires a grade of ‘‘C’’ or better before a student may register for any petroleum engineering course other than Petroleum Engineering 2020 and 3025. A student may elect to take six sem. hrs. of ROTC in place of English 3002 and Mechanical Engineering 3133. The six sem. hrs. of ROTC must be successfully completed before either substitution can be made. The sequence in which elective courses are taken may have to be altered for students electing the ROTC option.

The biological sciences elective and the arts/humanities/social sciences electives must be selected from the approved list published by the dean of the College of Engineering.*

*General education required courses.

**FRESHMAN YEAR**

**SEM. HRS.**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201*, 1202*, 1212*.</td>
<td>8</td>
</tr>
<tr>
<td>Engineering Graphics 1001</td>
<td>2</td>
</tr>
<tr>
<td>English 1001*, 1002*</td>
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<tr>
<td>Geology 1001, 1003, 1601</td>
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<td>Mathematics 1550*, 1552</td>
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<tr>
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<td><strong>Total</strong></td>
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**JUNIOR YEAR**

**SEM. HRS.**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Civil Engineering 3400</td>
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<td>English 3002 or ROTC</td>
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<td>Mechanical Engineering 3133 or ROTC</td>
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<tr>
<td>Mechanical Engineering 3333</td>
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<tr>
<td>Petroleum Engineering 3025, 3031, 3032,</td>
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<tr>
<td>3034, 3036, 3037</td>
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<tr>
<td>Approved geology elective</td>
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<td>General education arts/humanities/social sciences courses*</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>35</strong></td>
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**SOPHOMORE YEAR**

**SEM. HRS.**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
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<tbody>
<tr>
<td>Civil Engineering 2450</td>
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<td>Electrical Engineering 2950</td>
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<tr>
<td>Mathematics 2057, 2065</td>
<td>6</td>
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<tr>
<td>Mechanical Engineering 2833</td>
<td>3</td>
</tr>
<tr>
<td>Petroleum Engineering 2020, 2060.</td>
<td>5</td>
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<tr>
<td>Physics 2101, 2102</td>
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<tr>
<td>General education arts/humanities/social sciences courses*</td>
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<tr>
<td><strong>Total</strong></td>
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**SENIOR YEAR**

**SEM. HRS.**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Petroleum Engineering 3053, 4045, 4046,</td>
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<tr>
<td>4051, 4052, 4056, 4057, 4058, 4059, 4060,</td>
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<tr>
<td>4999</td>
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<tr>
<td>General education arts/humanities/social sciences course*</td>
<td>3</td>
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<tr>
<td>Petroleum engineering design elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>29</strong></td>
</tr>
</tbody>
</table>

**Research Units**

**HAZARDOUS WASTE RESEARCH CENTER**

**DIRECTOR:** Thibodeaux, *Professor*

**OFFICE:** 3418 CEBA Building
**TELEPHONE:** (504) 388-6770

The Hazardous Waste Research Center, an EPA Center of Excellence, supports research on hazardous wastes and the problems associated with their proper treatment and disposal. The center’s
comprehensive program includes basic research on incineration, treatment alternatives, and chemicals/materials interaction, applied research to help solve immediate problems, and technology transfer to communicate the advances being made. Projects are often interdisciplinary, incorporating faculty and facilities campus-wide.

LOUISIANA WATER RESOURCES RESEARCH INSTITUTE

DIRECTOR: Tittlebaum, Associate Professor
OFFICE: 2401A CEBA Building
TELEPHONE: (504) 388-8508

The Louisiana Water Resources Research Institute funds research concerned with water resources problems and the enhancement of Louisiana’s water resources, while simultaneously training engineers and scientists to address future problems. Although the institute is located on the LSU campus, the research may be conducted by faculty from universities and colleges statewide. Research topics range from resource management (including flooding and water supply) to water quality (including wastewater treatment and aquifer restoration). This research reflects input from the fields of agriculture, basic sciences, and engineering, as well as the business and health fields.

REMOTE SENSING AND IMAGE PROCESSING LABORATORY

DIRECTOR: Harlow, Professor
OFFICE: 3221 CEBA Building
TELEPHONE: (504) 388-5489

The Remote Sensing and Image Processing Laboratory (RSIP) is an interdisciplinary organization which performs basic and applied research in remote sensing, geographic information systems, and image analysis. RSIP maintains a wide variety of equipment and software for use in remote sensing and image processing. Research interests at RSIP include third-world agricultural management, coastal zone studies, hazardous waste monitoring, land-use mapping, water quality and quantity studies, soil erosion monitoring, pattern recognition and feature extraction, expert systems, and computer vision.
General College

JACK B. PARKER, Dean
DAVID C. BLOUIN, Associate Dean
MARY EVELYN BASZILE, Head of Counseling
J. RANDY GURIE, Counselor
CATHERINE C. HILL, Counselor
150 Himes Hall (504) 388-8281

General College provides the administrative structure for a variety of degree and non-degree programs. The primary objectives of the college are to meet the needs of: a) students whose educational goals require broad and flexible programs of study; b) students planning to enter professional schools in various health fields; c) students attempting to update their skills; and d) students preparing for professional careers in the construction industry or in the criminal justice system.

General College serves the traditional as well as the non-traditional student, and in each case, allows students the opportunity to maximize the development of individual goals. The college maintains high standards of excellence for all students.

ADMISSION REQUIREMENTS

Within the framework of University regulations, students may be admitted to the college according to the following policies:

a. Students admitted from Junior Division must have completed a minimum of 24 semester hours with a 2.00 average on all work taken and on all work taken in the LSU System (Criminal Justice requires a 2.25). Students must also be eligible for MATH 1021 and ENGL 1002.

b. Students admitted from other divisions of the University are expected to meet the same requirements as those admitted from Junior Division.

c. Transfer students from accredited colleges and universities who have met the general entrance requirements of the University and who have pursued college courses equivalent to those offered in Junior Division may be admitted to the college on the same conditions as those governing the entrance of students from Junior Division. Transfer credits acceptable for admission purposes shall be valid for degree credit in the college only to the extent to which they represent courses acceptable in the curricula of the college. Transfer students applying for credit in any department or school of the college may be required to take a comprehensive examination before credit is allowed.

Any additional requirements for admission may be found in the individual curriculum descriptions on the following pages.
DEGREE REQUIREMENTS OF THE COLLEGE

To qualify for a particular degree in this college, a student must meet the following requirements:

1. Complete an established program of studies and be approved for the degree by the faculty and the dean of the college.
2. In addition to having satisfied the admission requirements of the college and the department concerned, satisfactorily complete a curriculum with at least a 2.00 average in all courses required for the degree and an overall 2.00 average.
3. Earn a specified number of credits while registered in the college, depending on the individual's curricular requirements. In all cases, students transferring into the college must meet a residency requirement.
4. Attain proficiency in English by obtaining at least a grade of "C" in required English courses.
5. In the final year, complete the check-out of all course work required for the degree during the semester prior to the semester in which the degree is to be awarded.
6. Complete 39 hours of general education courses as specified in a separate section of this catalog.

STUDENT RESPONSIBILITY

Each student bears final responsibility for selecting an academic program and adhering to all published regulations and degree requirements of the college. Each student must assume responsibility for the check-out of course work required for the degree.

MAXIMUM COURSE LOAD AND CORRESPONDENCE WORK

The maximum load for which a student in this college may register is 18 semester hours during the regular semester and 10 semester hours during the summer term, including any correspondence work taken simultaneously. Exceptions to this must have approval of the dean and be within University regulations. Students enrolled in correspondence work must complete the final examination in the course before they will be allowed to register for the maximum number of hours. Correspondence study is not allowed during the semester in which the student graduates.

Students in the college who are on scholastic probation may be placed on a restricted schedule by the dean and will remain so until their overall average has been raised sufficiently to indicate that they are capable of carrying a larger load.
REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

Students holding baccalaureate degrees who wish to obtain a second baccalaureate degree may do so by registering in the college and completing a minimum of 30-39 semester hours beyond their previous degree requirements. A minimum 2.00 average must be earned on this subsequent work.

ADMINISTRATION AND COUNSELING

Academic records for students enrolled in General College are maintained in the office of the dean. The counseling program in the college provides students with an opportunity to seek assistance in both academic and personal matters.

PLACEMENT SERVICES

General College students may use the services of the University’s Career Planning and Placement Center. These services include counseling, job-seeking skills workshops, job search handbooks, résumé service, career days, and on-campus recruiting and interviews. Students should contact this office as soon as they register each fall in order to receive information concerning job opportunities.

Division of Interdisciplinary Studies

DEPARTMENT OF CONSTRUCTION

ACTING CHAIRMAN: Blouin, Associate Professor

ASSOCIATE PROFESSORS: Blouin, Nethken, Poplin

ASSISTANT PROFESSORS: Kinchen, O'Quinn

INSTRUCTOR: Rosso

The Department of Construction offers the degree of Bachelor of Science in Construction. The department recognizes that its graduates are professionals, distinct from engineers and architects. The curriculum offers a broad management and technical education which includes basic science, mathematics, and engineering. The professional component of the curriculum provides a thorough understanding of the construction industry and prepares students for management-level positions in construction.

CURRICULUM IN CONSTRUCTION

TOTAL SEM. HRS.: 138

English Proficiency: Students must obtain a grade of "C" or better in required English courses.

Math Proficiency: Students must obtain a grade of "C" or better in Mathematics 1441.

Course Sequence: Prerequisites are rigidly enforced.

Residency: Students must earn at least 24 of the last 30 hours offered toward the degree in residence in the Department of Construction.

General Education Requirements: All approved electives must be chosen from those listed in the section on general education requirements.

FRESHMAN YEAR SEM. HRS.

Computer Science 1248 3

Construction 1011, 1511, 1583 7

English 1001, 1002 6

General education biological science course 3

Geology 1001, 1601 4

Mathematics 1022, 1441 6

General education arts course 3

General education social sciences course 3

35

SOPHOMORE YEAR SEM. HRS.

Accounting 2001, 2101 6

English 2002 3

Civil Engineering 2081, 2500, 2510 6

Construction 2040 3

Economics 2030 3

Physics 2001, 2002 6

Speech Communication 2060 3

General education humanities courses 6

36
### DEPARTMENT OF CRIMINAL JUSTICE

**HEAD:** Roberg, *Professor*

**PROFESSORS:** Parker, Roberg

**ASSOCIATE PROFESSOR:** Archambeault

**ASSISTANT PROFESSORS:** MacKenzie, Sellers

**INSTRUCTOR:** Wright

The criminal justice curriculum is designed to provide a thorough introduction to the study of crime, theories of the causes of crime and delinquency, and to criminal justice processes. Specific courses allow students to explore the legal, moral, historical, and philosophical foundations of policing, judicial, correctional, and juvenile systems; the operation, planning, and management of agencies therein; and the role of theory and research in understanding these systems and their agencies.

A balanced curriculum of criminal justice, liberal arts, and general education requirements and electives prepares the major for a variety of alternatives, including careers in criminal justice and other fields as well as advanced study in such disciplines as law and criminal justice itself. The department also offers the Master of Criminal Justice degree through the Graduate School.

In order to graduate with a *minor in criminal justice* a student must complete CJ 1107 and at least 12 additional hours in criminal justice. At least six hours must be in courses at the 3000 level or above.

**CURRICULUM IN CRIMINAL JUSTICE**

**TOTAL SEM. HRS.: 130**

**Admission Requirements:** Minimum 2.25 grade-point average on all work taken and on all work taken in the LSU System.

**English Proficiency:** Students must obtain a grade of "C" or better in required English courses.

**Residency:** Students must earn at least 24 of the last 30 semester hours in residence in the Department of Criminal Justice.

No more than 45 hours of criminal justice courses may be included in the 130-hour total. At least 45 of the 130 hours must be at the 3000-4000 level, and 15 of these 45 hours must be at the 4000 level. Choose from Criminal Justice 3030, 3050, 3101, 3900, 3999, 4000, 4010, 4100, 4399, 4400, 4800.

**Free Electives:** Eight hours of course work outside the department which a student may select without approval of a faculty member.

**Approved electives:** Any course taken for credit in the College of Arts and Sciences (excluding ROTC courses), the College of Basic Sciences, the College of Business Administration, the Department of Experimental Statistics, and the Department of Criminal Justice (up to 12 hours). Students are encouraged to seek a thematic relevance to criminal justice. No more than 18 sem. hrs. of credit from the same department may be applied as approved electives.

**General Education Requirements:** All courses must be chosen from those listed in the section on general education requirements.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>Criminal Justice 1107</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021 and 1022 or 1100</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities courses</td>
<td>6</td>
</tr>
<tr>
<td>General education natural sciences courses (include both biological and physical sciences with a two-semester sequence in one area)</td>
<td>9</td>
</tr>
</tbody>
</table>

**TOTAL: 34**

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criminal Justice 2131, 2132, 2133, 2399</td>
<td>12</td>
</tr>
<tr>
<td>English 2002</td>
<td>3</td>
</tr>
<tr>
<td>Experimental Statistics 2000</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 2051</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 2000</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 2001</td>
<td>3</td>
</tr>
<tr>
<td>Speech 2060, 2063 or 2862</td>
<td>2</td>
</tr>
<tr>
<td>Free electives</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL: 32**
### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criminal justice junior/senior electives</td>
<td>9</td>
</tr>
<tr>
<td>Experimental Statistics 2201 or</td>
<td></td>
</tr>
<tr>
<td>Sociology 2201</td>
<td>4</td>
</tr>
<tr>
<td>Approved electives</td>
<td>15</td>
</tr>
<tr>
<td>Free electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>31</strong></td>
</tr>
</tbody>
</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criminal justice junior/senior electives</td>
<td>9</td>
</tr>
<tr>
<td>Political Science 4020 or 4021</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>18</td>
</tr>
<tr>
<td>Free electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

## Division of General Studies

### GENERAL STUDIES

**OFFICE:** 150 Himes Hall  
**TELEPHONE:** (504) 388-8281

The Bachelor of General Studies degree serves the student whose career, professional, and educational goals require considerable flexibility in developing an individualized, interdisciplinary curriculum. The two interrelated components of a student's curriculum are **foundation studies**, which provide a firm grounding in the liberal arts, and **depth studies**, which are the primary focus of the student’s goals. The student’s unique interests, talents, and goals guide curriculum development. In addition to the college requirements, a curriculum contract must be established prior to admission to the general studies program.

### CURRICULUM IN GENERAL STUDIES

**TOTAL SEM. HRS.: 129**

To obtain a Bachelor of General Studies degree, a student must satisfy the following requirements.

**A. FOUNDATION STUDIES** (69 semester hours) represent a broad-based liberal arts education. A total of 18 hours in each of the three groups (humanities, social sciences, and natural sciences) plus 15 additional hours in one of the three groups must be earned. Refer to the section in this catalog which lists the general education requirements.

**Group I—Humanities (18 hrs.):** art, English, foreign languages, music, philosophy, religious studies, speech.
1. Credit in English 1001 and 1002, or their equivalents, with grades of “C” or better in each.
2. Three hours of art, music, or theatre from the general education arts listing.
3. Nine hours of foreign languages (above 2051), philosophy, religious studies, speech communication, or English (2000 or above) from the general education listing.

**Group II—Social Sciences (18 hrs.):** anthropology, economics, geography, history, political science, psychology, sociology.
1. Credit in at least three different subjects.
2. At least six hours from the general education listing.

**Group III—Natural Sciences (18 hrs.):** astronomy, biology, botany, chemistry, computer science, geology, mathematics, microbiology, physical science, physics, zoology.
1. MATH 1021 and three additional hours above MATH 1021.
2. Three hours of physical sciences from the general education listing.
3. Three hours of biological sciences from the general education listing.
4. Three hours of the second sequence of either physical or biological sciences earned above.
5. Three hours of computer science, or Experimental Statistics 2000, or a general education natural sciences elective.

**Group of Concentration (choose 15 additional hours from one of the following):** humanities, natural sciences, social sciences.

**B. INDIVIDUAL STUDIES** (60 semester hours) serve as the primary mechanism for achieving each student’s individual goal. Courses should, therefore, be relevant to that goal.

**C. GENERAL REQUIREMENTS**
1. No more than 24 hours in any one subject.
2. No more than 15 hours of correspondence study for degree credit.
3. No more than 15 hours on a pass-fail grading basis.
4. No more than 39 hours below the 2000 level for degree credit.
5. No more than four hours of HPRD activity courses and no more than six hours of ROTC for degree credit.
6. At least 45 hrs. at or above the 3000 level with at least 15 hours at the 4000 level.
7. A 2.00 gpa on all work taken at LSU and a 2.00 gpa on the entire college record is required in order to graduate.
8. The last 39 hours of degree credit must be earned while in residence in the program. Correspondence work and advanced placement credit do not apply.
9. Credit in at least one foreign language course or computer language course.
10. No more than 30 hours of course work offered by the College of Business Administration (excluding economics) may be used for degree credit.

SPECIAL PROGRAMS

Program for Adult Special Students (PASS)

The "PASS" program involves part-time study for people who want to start or go back to the University somewhat later in life than usual. Some of the goals of this program include helping adults update their skills and add to job success, ultimately seek a degree, develop a hobby so that leisure time may be more rewarding, or simply rejuvenate the mind. Admission and registration procedures are simplified for added convenience. For additional information, see the "Admission to the University" section of this catalog.

Nonmatriculated Students (NMATR)

Nondegree-seeking students and students who meet University admission requirements but do not qualify for enrollment in Junior Division or a senior college may be considered for nonmatriculated admission. NMATR students who seek admission to a degree program should request academic advice from the office of the dean of the college in which they plan to enroll. Courses taken by NMATR students are accepted in the senior college to the extent that they apply toward the degree and are approved by the appropriate dean. All University policies regarding academic action apply to NMATR students. Enrollment in this category cannot be used to satisfy senior college residence requirements unless approved by the appropriate dean.

Not Regularly Admitted Students (NORAD)

Students who are within 12 hours of graduation at another college or university and who take courses at LSU to be transferred to that university for degree credit register as NORAD. No academic action is taken on these students.

Southern Cooperative Program (SCOOP)

Students enrolled at Southern University who take courses at LSU register as SCOOP. These students must receive approval of their course schedule from their Southern University academic dean. No academic action is taken on these students. For additional information, see the "LSU-Southern University Cooperative Programs" section of this catalog.

Summer-Term-Only Students (SU)

Students who are regularly enrolled at other colleges or universities and attend LSU for the summer term only register as SU. They are not regularly admitted students. No academic action is taken on these students.

LSU at Alexandria Residence Program

Since LSU at Alexandria (LSUA) is a two-year institution, 3000/4000 level courses are not offered by faculty from that campus. However, a limited number of 3000/4000 level courses are offered by LSU faculty at the Resident Center on the LSUA campus. Students who have been
admitted to the LSU general studies degree program may register for these courses and complete the requirements for their degrees at the LSU Resident Center. These students must meet all admission, scholastic, and degree requirements of the LSU program.

DIVISION OF PREPROFESSIONAL PROGRAMS

Allied Health Programs

ADVISOR: Abadie

General College offers two-year preprofessional programs and a three-year preprofessional program which prepare students to enter the professional curricula leading to the bachelor’s degree in the various allied health fields. The programs of study shown below are appropriate for the professional curricula indicated.

The LSU Medical Center offers the final two (clinical or professional) years of Bachelor of Science degree programs in cardiopulmonary science (respiratory therapy), occupational therapy, physical therapy, and rehabilitation counseling through the LSU School of Allied Health Professions, and in dental hygiene and dental laboratory technology through the LSU School of Dentistry in New Orleans. The LSU Medical Center also offers a degree in medical technology. Admission to these programs is on a competitive basis, and applications for admission must be submitted well in advance of the date of matriculation at the Medical Center.

In addition to the bachelor’s degree programs described in this catalog, the LSU School of Allied Health Professions also offers master’s degrees in Communication Disorders and Health Sciences.

Further information regarding any of these programs may be obtained from the allied health advisor in General College or the LSU Medical Center, School of Allied Health Professions, in New Orleans or Shreveport.

PREPROFESSIONAL PROGRAMS IN CARDIOPULMONARY SCIENCE, OCCUPATIONAL THERAPY, AND PHYSICAL THERAPY

These programs are designed for students desiring to apply for entry into professional curricula in cardiopulmonary science (respiratory therapy), occupational therapy, medical record administration, physical therapy, and medical technology. Military science or physical education skills courses are not acceptable as electives in fulfilling the pre-allied health credit requirement. Approval of course selections must be obtained from the allied health advisor in General College or from the head of the appropriate professional department at the LSU School of Allied Health Professions; a copy of the approval must be placed in the student’s file in General College.

Students enrolled in pre-occupational therapy or premedical record administration programs are required to complete only one three-hour lecture course in chemistry.

FRESHMAN YEAR SEM. HRS. SOPHOMORE YEAR SEM. HRS.
Chemistry 1201, 1202 ........................................ 6 Chemistry 1212 ........................................ 2
English 1001, 1002 ........................................ 6 English course above 2000 ......................... 3
Mathematics 1021, 1022; or 1023; or 1550 ...... 5-6 Psychology 2000 ......................................... 3
Zoology 1001, 1002 or Biology 1001, 1002, 1003, 1004 .......... 8 Special area requirements (see below) ........... 8-17
Social sciences courses ................................ 6-9 General education humanities courses .......... 9-12

30

Special Area Requirements

Cardiopulmonary Science, 12 sem. hrs.: Microbiology 2051; Physics 2001, 2108; political science elective; four hrs. sciences electives.

Medical Record Administration, 12 sem. hrs.: Vocational Education 2000; Computer Science 1240; English course numbered above 2000; Speech Communication 2060.

Occupational Therapy, 16 sem. hrs.: Physics 2001, 2108; six sem. hrs. of psychology electives; Sociology 2001; Experimental Statistics 2000.
PREPROFESSIONAL PROGRAM IN REHABILITATION COUNSELING

Military science or physical education skills courses are not acceptable as electives in fulfilling the 60 sem hr. pre-allied health credit requirement. Approval of course selections must be obtained from the allied health advisor in General College or from the head of the Department of Rehabilitation Counseling at the LSU School of Allied Health Professions. A copy of the approval must be placed in the student’s file in General College.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>HPRD 2500</td>
<td>3</td>
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<tr>
<td>Mathematics 1021</td>
<td>3</td>
<td>Experimental Statistics 2000</td>
<td>3</td>
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<tr>
<td>Psychology 2000, 2011</td>
<td>6</td>
<td>Speech Communication 2060</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 2001</td>
<td>3</td>
<td>Social sciences courses</td>
<td>5</td>
</tr>
<tr>
<td>Approved English elective</td>
<td>3</td>
<td>Natural sciences courses</td>
<td>6</td>
</tr>
<tr>
<td>Humanities course</td>
<td>3</td>
<td>Approved electives</td>
<td>6</td>
</tr>
<tr>
<td>Social sciences courses</td>
<td>6</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

PREPROFESSIONAL PROGRAM IN DENTAL HYGIENE

Military science or physical education skills courses are not acceptable as electives in fulfilling the pre-professional requirements. Approval of course selections must be obtained from the allied health advisor in General College or from the Office of Dental Auxiliary Programs, LSU School of Dentistry in New Orleans. A copy of the approval must be placed in the student’s file in General College.

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1001</td>
<td>3</td>
</tr>
<tr>
<td>Biology 1001, 1002, 1003, 1004</td>
<td>3</td>
</tr>
<tr>
<td>or Zoology 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>Analytical reasoning course</td>
<td>3</td>
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<td>Psychology 2000</td>
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<td>Sociology 2001</td>
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</tr>
<tr>
<td>Arts course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

PREPROFESSIONAL PROGRAM IN DENTAL LABORATORY TECHNOLOGY

Military science or physical education skills courses are not acceptable as electives in fulfilling the pre-professional requirements. Approval of course selections must be obtained from the allied health advisor in General College or from the Office of Dental Auxiliary Programs, LSU School of Dentistry in New Orleans. A copy of the approval must be placed in the student’s file in General College.

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1001 or 1201</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>Mathematics 1021</td>
<td>3</td>
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<tr>
<td>Psychology 2000</td>
<td>3</td>
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<tr>
<td>Sociology 2001</td>
<td>3</td>
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<tr>
<td>Arts course</td>
<td>3</td>
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<tr>
<td>Analytical reasoning course</td>
<td>3</td>
</tr>
<tr>
<td>Approved business electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

PREPROFESSIONAL PROGRAMS IN PHARMACY AND OPTOMETRY

Pre-pharmacy

Students with a 2.00 average who have completed a minimum of 68 semester hours (including the courses listed below) may apply for admission to a professional school of pharmacy. After three years of satisfactory study in the professional school, the student will receive the degree of Bachelor of Science with a major in pharmacy from that school.

Completion of the following program does not assure acceptance into a degree program offered by another university. Since pharmacy schools have varying requirements, students should consult the catalogs of those schools to which they intend to apply so that they may plan their programs accordingly.
**Pre-optometry**

Students with a 2.50 average who have completed at least 60 semester hours may be eligible to apply to a professional school of optometry. After four years of satisfactory study in a professional school, the student will be awarded the degree of Doctor of Optometry from that school. The student interested in such a program should declare pre-optometry as a major field and proceed on a schedule including the courses listed below which would be equivalent to the first two years of work for a bachelor's degree in General College.

Completion of this program does not assure acceptance into a degree program offered by another university. Since optometry schools have varying requirements, students should consult the catalogs of those schools to which they intend to apply so that they may plan their programs accordingly.

<table>
<thead>
<tr>
<th>Preprofessional Program in Medical Technology</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FRESHMAN YEAR</strong></td>
<td></td>
</tr>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1001, 1002; and 2020, 2022 or 2025, 2027</td>
<td>12</td>
</tr>
<tr>
<td>Foreign language courses (through 2053)</td>
<td>3-13</td>
</tr>
<tr>
<td>History courses</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1023 or 1550</td>
<td>5-6</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Preprofessional Program in Medical Technology</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>JUNIOR YEAR</strong></td>
<td></td>
</tr>
<tr>
<td>Microbiology 4121, 4122</td>
<td>8</td>
</tr>
<tr>
<td>Approved zoology electives2</td>
<td>6-8</td>
</tr>
<tr>
<td>Chemistry 2261</td>
<td>3</td>
</tr>
<tr>
<td>Humanities courses***</td>
<td>9</td>
</tr>
<tr>
<td>Social sciences course</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL SEM. HRS.: 134**

**Approved zoology electives:**

**SOPHOMORE YEAR**

| Approved Zoology elective1                    | 4  |
| Chemistry 2251, 2252                         | 5  |
| English 2020 or 2022                        | 3  |
| Microbiology 2051                            | 4  |
| Experimental Statistics 2000                 | 3  |
| Humanities course*                           | 3  |
| Social sciences course                       | 3  |
| Arts course                                  | 3  |

**TOTAL 28**

*To include at least 3 hrs. at the sophomore level or above.
**To include at least 3 hrs. in music, art, or theatre.
***Students who do not wish to earn the Board of Regents' Certificate of Excellence may use 6 hrs. for free electives.
PREPROFESSIONAL PROGRAM IN NURSING

ADVISOR: Darouse

LSU offers a pre-nursing program which prepares students to enter the professional nursing curriculum leading to the Bachelor of Science in Nursing at the LSU Medical Center School of Nursing in New Orleans.

Admission to the LSU School of Nursing is on a competitive basis. Applications for admission to the sophomore year must be submitted well in advance of the anticipated date of entrance to complete three years of study. Students are accepted in the fall and spring of each year. Applications are available in General College.

Pre-nursing requirements vary with each professional school of nursing, and entrance to each school is competitive. Prospective nursing students should obtain the entrance requirements from each school to which they will seek admission.

The following program is designed only for students planning to apply for a Bachelor of Science degree in nursing at the LSU Medical Center School of Nursing in New Orleans.

Information about other nursing programs is available from the nursing advisor in General College.

Students must qualify for Mathematics 1021 to be eligible to schedule Chemistry 1201.

For approved arts electives, select courses in architecture, art, music, philosophy, and theatre listed in the general education section in this catalog.

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1001, 1003, or Zoology 1001............ 4</td>
<td>Political Science 2051..................... 3</td>
</tr>
<tr>
<td>Chemistry 1201................................ 3</td>
<td>Psychology 2000................................ 3</td>
</tr>
<tr>
<td>Economics 2030................................ 3</td>
<td>Sociology 2001................................ 3</td>
</tr>
<tr>
<td>English 1001, 1002............................... 6</td>
<td>Arts course..................................... 3</td>
</tr>
<tr>
<td>Mathematics 1021................................. 3</td>
<td>.................................................... 35</td>
</tr>
<tr>
<td>Microbiology 1001, 1002.......................... 4</td>
<td></td>
</tr>
</tbody>
</table>

DIVISION OF INSTRUCTIONAL SUPPORT AND DEVELOPMENT

DIRECTOR: Rankin, Professor

ASSOCIATE DIRECTOR: Hutchinson

The Division of Instructional Support and Development (DISD), a unit of General College, provides a broad range of instructional support services and media resources which enhance the educational process. The various services available through the division are provided to the faculty, staff, students, and organizations of the University. In some instances, fees are assessed for the services.

The Instructional Resources Center provides audio-visual equipment and electronic repairs/installations, and access to more than 40,000 film titles on a variety of subjects. Equipment is delivered and returned by IRC employees at no charge for use by instructors in scheduled academic classes. The Media Production Center designs, produces, and implements instructional technology materials. Services include audio and video production, photography, graphic design, and production of multimedia programs. The division is also responsible for the production of identification cards for students and employees.
Graduate, Professional, and Research Units

Class work at the graduate level serves mainly as a guide for independent study. At the heart of the graduate educational experience is research. LSU takes an active part in research in a wide variety of fields. A recent study indicated that in any given year more than 1,200 active research projects were underway at LSU. Research is supported to a substantial degree by state funding; outside funding is three times the level of state funding.

Additional information about the following graduate and professional units is published in appropriate catalogs, bulletins, and brochures which may be obtained by contacting the individual unit. The Graduate School Catalog may be obtained from the Office of the Graduate School ($3.00 per copy).

CENTER FOR ENERGY STUDIES

ASSOCIATE EXECUTIVE DIRECTOR: Baumann
OFFICE: E. Fraternity Circle
TELEPHONE: (504) 388-4400

The prime objective of the Center for Energy Studies is to utilize the full potential of the University to assure Louisiana's energy future. As this objective is pursued, unique educational opportunities are provided for students working on current and future energy problems. The functions of the major organizational units within the center are described in the following paragraphs.

Research and Development Division

OFFICE: E. Fraternity Circle
TELEPHONE: (504) 388-4400

The Research and Development Division is responsible for the development, funding, and business management of single-discipline, energy-related projects, as well as for the coordination of diverse interdisciplinary research ventures. Research projects are sponsored by the Center within five broad areas: (1) enhanced hydrocarbon recovery, (2) conservation methodologies, (3) environment-energy relationships, (4) combustion kinetics, and (5) advanced materials.
Policy Analysis and Planning Division

OFFICE: E. Fraternity Circle
TELEPHONE: (504) 388-4400

The functions of the Policy Analysis and Planning Division involve the study of public policy regarding taxation and regulation of the energy industry. Studies focus on the needs of Louisiana with regard to its economy and related energy production, demand, and required technology. Analysis and projections provide input to decision makers in government and industry, as well as to the center administrators, to assist in the selection of research commitments.

Information Services Division

DIRECTOR: Scull, Librarian
OFFICE: E. Fraternity Circle
TELEPHONE: (504) 388-4400

Information Services offers a multi-level and multi-faceted approach to identifying, acquiring, creating, and providing energy information to researchers, public officials and employees, administrators, businessmen, civic groups, and the public. Publications; Louisiana energy statistics and information; reference and literature search service; obtaining free DOE laboratory equipment; and planning and participating in energy-related conferences are the division’s major activities.

Louisiana Energy Resource and Information Center

Louisiana Energy Resource and Information Center (LERIC) is a cooperative effort between the Louisiana Department of Natural Resources and the LSU Center for Energy Studies. LERIC provides a central location for meeting the energy information needs of Louisiana’s consumers and educators. For review and use, the center has audiovisual materials, curriculum guides, computer programs and aids, and free and/or loanable literature. It also offers referral to technical experts and an information network capable of tying into nationwide energy hotlines, laboratories, and centers.

Institute for Environmental Studies

DIRECTOR: Overton, Professor
OFFICE: 42 Atkinson Hall
TELEPHONE: (504) 388-8521

PROFESSOR: Means
ASSOCIATE PROFESSOR: Templet
ASSISTANT PROFESSORS: Portier, Shane, Winston

The Institute for Environmental Studies coordinates programs in environmental studies. Its functions are to educate, promote and conduct research, disseminate knowledge, and to provide general public service directed toward conserving environmental quality.

The institute offers environmentally oriented courses and the Master of Science degree in environmental sciences, a cooperative, multidisciplinary program between LSU and SU. Four options are available: environmental toxicology and environmental management systems offered at LSU and environmental biology and environmental chemistry offered at SU. The institute also serves in a liaison capacity to assist in the effective campus-wide utilization of formal course offerings dealing with environmental topics.

The institute pursues a program of research in environmental toxicology and environmental management, utilizing the assistance of faculty members throughout the University. It also functions in a liaison capacity with other LSU research organizations concerned with environmental matters.

Nuclear Science Center

DIRECTOR: Lambremont, Professor
OFFICE: 127 Nuclear Science Center
TELEPHONE: (504) 388-2163

PROFESSORS: Courtney, Lambremont
ASSOCIATE PROFESSORS: Knaus, Williams
ASSISTANT PROFESSORS: Johnson, Kubricht, Lindau, Scott, Yucel
The Nuclear Science Center, while providing services to the University in radiation consulting, radiation protection, and research facilities, has primary roles in research and academic programs. Courses in nuclear science are offered in cooperation with several departments of instruction including a nuclear option for the bachelor’s degree program in chemistry. The center administers the programs leading to the degrees of Master of Science in Nuclear Engineering and Master of Science with a major in Nuclear Science. The latter program has three options: research, radiation protection, and medical radiation science (offered in cooperation with the medical staff of the Mary Bird Perkins Cancer Center). Graduate students from other disciplines may select a minor program in nuclear science at the master’s or Ph.D. level.

In addition to academic and research programs, the center organizes short courses, conferences, and symposia to advise industry and the general public of nuclear applications and developments pertinent to Louisiana and the south. Faculty and students cooperate with Department of Energy national laboratories as well as with other departments at LSU.

Laboratories for graduate programs and faculty research are included in the center and in the radioecology field laboratory located south of the main campus on the Ben Hur Farm.

**Radiation Safety Office**

DIRECTOR: Scott, Assistant Professor

OFFICE: East Fraternity Circle

TELEPHONE: (504) 388-4400

The use of radioisotopes or radiation producing devices is governed by the Campus Radiation Safety Committee. The campus radiation safety program is administered by the Radiation Safety Office. Approval for the use of radioisotopes or radiation producing devices must be obtained prior to their use. Professional health physicists are available for consultation regarding radiation safety aspects of planned activities.

**Louisiana Mining and Mineral Resources Research Institute**

DIRECTOR: Pike, Professor

TELEPHONE: (504) 388-6891

OFFICE: 118 David Boyd Hall

The Louisiana Mining and Mineral Resources Research Institute, supported equally by state and federal funds from the U.S. Department of the Interior, was established at LSU in 1979. The institute supports research encompassing exploration, processing, supply and demand, conservation, and best use of minerals; and the economic, legal, social, engineering, recreational, biological, geographic, ecological, and other aspects of mining, mineral resources, and mineral reclamation.

**GRADUATE SCHOOL**

DEAN: Cooper, Professor

ASSOCIATE DEAN: Hembry, Professor

OFFICE: 134 David Boyd Hall

TELEPHONE: (504)388-2328

The Graduate School’s purposes are to provide opportunities for advanced study and specialization, to instruct students through prolonged association with scholars in the methods of independent investigation, and to foster the spirit of scholarship and research. The Graduate School was established as a center of learning because the University recognized its duty to provide—especially for the people of Louisiana—an environment in which research and free inquiry would thrive and to make available to society the results of these activities.

**Admission Requirements**

Applicants meeting all requirements stated below are normally granted regular admission. Applicants who fail to meet all requirements may be admitted on probation, provided other substantial evidence of capacity to do satisfactory graduate work is presented. Such evidence might include high quality performance in post-baccalaureate work, high Graduate Record Examination scores (Graduate Management Admission Test scores, where appropriate), and other unusual achievements. Applicants who appear to be admissible on the basis of unofficial and/or incomplete tran-
scripts of previous work and who have satisfactory scores on the GRE General (Aptitude) Test, but who are unable to supply the required records prior to registration, may be granted provisional admission. In such cases, complete and satisfactory records must be received by the Graduate School within 60 days after the first day of registration (45 days in summer term). If these materials are not received by the date specified or if they prove to be unsatisfactory, the student will not be permitted to register for the following semester. Provisional admission does not in any way guarantee subsequent admission on an unconditional basis.

It should be noted that meeting the minimum requirements, as outlined in the following sections, does not necessarily insure acceptance into a departmental program, since departments may establish higher standards and may impose other special admission requirements and conditions.

Graduate Admission of United States Students

Admission to the Graduate School requires: (1) a bachelor’s degree from an accredited college or university; (2) a satisfactory undergraduate record, and a satisfactory record on any graduate work attempted; (3) acceptable scores on the GRE General Test (Graduate Management Admission Test for the Departments of Accounting, Finance, Management, Marketing, and Quantitative Business Analysis and for all applicants to the M.B.A. program); and (4) acceptance by the Graduate Committee in the applicant’s area of study. Applicants who are narrowly trained or who have taken a significant amount of work on a pass-fail basis or in ungraded courses may be required to submit scores on GRE Subject (Advanced) Tests before their applications can be considered. The Graduate Catalog may be consulted for more specific admission requirements.

Graduate Admission of International Students

An applicant who has completed degree requirements outside the U.S. must present the following: (1) a complete and accurate chronological outline of all previous college-level education; (2) authorized school or university records—transcripts, marksheets, certificates of degrees—showing all courses taken and all grades received, with certified translations if the records are in a language other than English; (3) a bachelor’s degree or its equivalent, with a grade-point average equivalent to a ‘B’ or better (3.00 out of a possible 4) on all previous graduate and undergraduate work from an accredited college or university; (4) if an assistantship is not offered, certification of the availability of sufficient funds to meet all costs while studying at LSU is needed before the letter of admission and Form I-20 will be mailed; (5) satisfactory scores on the GRE General Test (GMAT where appropriate); and (6) satisfactory scores on the Test of English as a Foreign Language (TOEFL), except for applicants from Canada, Australia, New Zealand, and the United Kingdom. International students who have received a degree from an accredited institution in the U.S., Canada, Australia, New Zealand, or the United Kingdom are also exempt from taking the TOEFL.

A TOEFL score of at least 525 must be received before a student’s application is evaluated for admission. A TOEFL score of at least 550 is needed for consideration for a graduate assistantship. Application for an assistantship should be made to the department in which the degree is sought.

Application deadlines for international students are July 1 for the fall semester, November 1 for the spring semester, and May 1 for the summer term. Applications received after these dates will be processed for the following semester or summer term upon the student’s formal, written request. Also, when sufficient scholastic records and acceptable evidence of English proficiency are not received early enough to determine admissibility for the semester for which application was made, consideration will be delayed until the following semester. Applicants with immigrant visas who wish to apply after the above dates will be considered on an individual basis.

Upon arrival on campus and before registration, international applicants, except those from Canada, Australia, New Zealand, or the United Kingdom, who have been admitted to Graduate School must take the LSU Comprehensive English Language Test, which consists of the Michigan Test. Graduate assistants must also complete a speech interview. If either test indicates a deficiency in English, the student will be required to register for the appropriate courses with a reduced load of graduate courses. In the case of a major deficiency in English, the Graduate School may require postponement of enrollment in graduate courses until proficiency is demonstrated.

The Graduate School will not consider for admission any person who has entered the U.S. on an I-20 issued by another institution until that person has been enrolled at the institution issuing the I-20.

An international applicant who has completed undergraduate requirements at an accredited U.S. institution should follow the regular admission procedures.
Admission Procedures

Application for admission to the Graduate School should be submitted as early as possible in the academic session immediately preceding the one in which admission is sought. Some departments require that applications be received by a specific date. For information concerning the procedures applicable to a particular field of study, write to the chairman or graduate advisor of the appropriate department. The application must be accompanied by a nonrefundable application fee, $25 for U.S. students, and $50 for international students. An additional nonrefundable $25 late fee will be assessed U.S. citizens for all applications received in the Office of Admissions after the following application deadlines: for the summer term, May 1; for the fall semester, July 1; and for the spring semester, December 1. Late international applications will be processed for the following semester upon written request by the applicant. All deadlines are the same for international applicants, except for spring semester, which is November 1.

Final admission decisions are made only after receipt of all credentials which include: (1) the completed "Application for Admission" form (available from the Graduate School) and the appropriate nonrefundable application fee sent directly to the Office of Admissions; (2) two copies of official transcripts from each college or university attended sent directly to the Office of Admissions by the institution (requests for transcripts of academic work done at LSU are not necessary); (3) scores on the GRE General Test (GMAT, where appropriate) sent by Educational Testing Service to the Graduate School; (4) any other specific departmental requirements, such as letters of recommendation.

Admission is only for the semester requested. Persons who are admitted and do not register must make a formal written request to be reconsidered for admission for a subsequent semester. Students previously registered in Graduate School who wish to resume work after an absence of a semester or longer will be required to submit an application (along with the appropriate fee) to be considered for readmission. Official transcripts must be submitted if any work has been taken at another institution during the time the student was not enrolled in Graduate School at LSU.

Nonmatriculated Admission

A student who holds a baccalaureate degree, but who is not in a degree program in the Graduate School, may enroll as a nonmatriculating student. A student in this category may take an unlimited number of courses numbered below 6000, but is limited to six hours in courses numbered at the 6000-level and above.

Graduate Credit

A student may receive graduate credit only for courses taught by members of the graduate faculty or other persons approved in advance by the dean of the Graduate School. Except as noted, a student may receive graduate credit only for work taken while officially enrolled as a graduate student.

Graduate Credit for LSU Seniors

A senior at LSU who needs fewer than 15 semester hours to complete requirements for the bachelor’s degree, who has maintained a grade-point average of at least 3.00 during the preceding year at LSU, and who has a cumulative grade-point average of at least 2.75 may be permitted to register for graduate credit in courses numbered 4000-4999 provided the student registers for all the remaining courses required for graduation and for no more than 15 semester hours total. This privilege applies only during the final semester of the student’s undergraduate work and is extended only upon recommendation of the dean of the student’s college and approval of the dean of the Graduate School. The head of the department in which the student plans to enroll as a graduate student must also approve the courses taken for graduate credit. A student must complete all undergraduate degree credit courses in order to retain the privilege of obtaining graduate credit for the remaining courses. Forms for participation in this program are available in the records section of the Graduate School, 128 David Boyd Hall.

Accelerated Master’s Degree Program

Admission

The accelerated master’s degree program is open to superior undergraduate students who have completed at least 60 semester hours of credit (including advanced placement credit) with a grade-
point average of at least 3.50 for all work taken at LSU. (To be eligible, transfer students must have a 3.50 average on all undergraduate work taken prior to attending LSU and must complete at least one semester at LSU with a gpa of 3.50 or better.)

Acceptance into the accelerated program requires approval from the following: (1) the chairman of the undergraduate department in which the student is enrolled; (2) the dean of the college in which the student is enrolled; (3) the chairman of the department or the coordinator of the interdisciplinary program in which the student proposes to work toward the master’s degree; and (4) the dean of the Graduate School. The requested approvals will be given as signatures on a form designed specifically for this program. It is the responsibility of the chairman or coordinator of the graduate program to appoint the student’s graduate faculty advisory committee.

Other admission requirements for graduate study, such as the GRE and the GMAT, will be waived until the student receives the baccalaureate degree and is ready to enter formally into Graduate School. Until that time, admission into the accelerated program will constitute provisional admission into the graduate program. Students will register as graduate students only after receiving the baccalaureate degree and satisfying departmental and Graduate School admission requirements.

Continuing eligibility for the accelerated master’s program will require maintenance of a 3.50 average in all courses which apply to the undergraduate degree and a 3.00 average in all graduate course work.

Degree and Curriculum Requirements

Students enrolled in this program must meet all academic and and residence requirements of the Graduate School and the department concerned. Requirements for the baccalaureate degree will be unaffected.

Students may take a maximum of half of the required hours for the master’s degree while enrolled as undergraduates. These hours may be applied toward the master’s degree provided a gpa of 3.00 is maintained in graduate course work and provided none of these hours apply toward the baccalaureate degree.

A minimum of half of the required hours of graduate study must be taken after the student receives the bachelor’s degree. As is required for all other master’s degrees, half of the required hours must be at the 7000 level or above. Thesis research and independent study may be counted as course work above the 7000 level.

A student may wish to apply some graduate-level course work toward his or her undergraduate degree. In such instances, the graduate committee can alter the distribution of course work and independent study required for the master’s degree. No course credit can be applied toward more than one degree.

SCHOOL OF LIBRARY AND INFORMATION SCIENCE

DEAN: Heim, Professor

PROFESSORS: Boyce, Heim, Patterson
ASSOCIATE PROFESSORS: Perritt, Shiflett
ASSISTANT PROFESSOR: Carpenter
INSTRUCTOR: Paskoff
ADJUNCT FACULTY: Kraft

The School of Library and Information Science provides education for information careers in all types of libraries and information centers leading to the master’s degree (M.L.I.S.) and the Certificate of Advanced Study in Library and Information Science (C.L.I.S.). The school’s programs are accredited by the American Library Association, and the school is a member of the Association for Library and Information Science Education.

A broad general education is the best preparation for library and information science. Undergraduates are advised to develop strong subject concentrations in the areas of their special interests and abilities, since every field of knowledge is useful in the information professions. Courses in computer science will be helpful. The School of Library and Information Science does not require a foreign language for admission; however, course work in one or more foreign languages is advisable for those who expect to prepare for careers in research or technical libraries. Students who expect to become librarians in elementary or secondary schools should plan their undergraduate programs with state teacher certification requirements in mind.
Students working toward the master’s degree or the Certificate of Advanced Study are enrolled in the Graduate School; therefore, applicants must meet the general Graduate School requirements in addition to School of Library and Information Science requirements. Application forms may be obtained from the office of the dean or from the Office of Admissions. Admission will be based on the candidate’s scholastic record and aptitude for a career in the information professions.

Requirements for the Master of Library and Information Science degree are as follows: (1) satisfactory completion of a minimum of 37 semester hours (a maximum of six semester hours of approved graduate-level course work from within the LSU System may be applied to the 37 semester-hour minimum requirement); (2) successful performance on a written comprehensive final examination; (3) fulfillment of the minimum residence requirement of one regular semester or one summer term as a full-time student at this University; (4) completion of the degree program in six years. Credit for individual courses taken more than six years before the completion of the program may be validated with permission of the instructor of the course and the dean, and with approval of the dean of the Graduate School. Requirements for so doing are set by the instructor.

The Certificate of Advanced Study in Library and Information Science is a degree program tailored to the needs of professional librarians who desire formal education to achieve their career goals. Specializations in library automation, academic library, administration, youth services, adult literacy, and collection development will provide in-depth opportunities to individuals already holding the accredited master’s degree in library and information science. A minimum of 24 hours of graduate credit is required.

**SCHOOL OF SOCIAL WORK**

DEAN: Midgley, Professor

OFFICE: 311 Long Field House
TELEPHONE: (504) 388-5875

PROFESSORS: Daste, Kim, Midgley, Mohan, Roundtree

ASSOCIATE PROFESSORS: Balthazar, Cook, Fatout, Grenier, Sanzenbach, Stewart

ASSISTANT PROFESSORS: Bentley, Farmer, Gross

The School of Social Work, a professional school within the Graduate School, provides two years of social work education leading to the degree of Master of Social Work. It also provides, in cooperation with other colleges of the University, undergraduate courses in social work. The school is a charter member of the Council on Social Work Education and is accredited by its Commission on Accreditation at the master’s level. Graduates are eligible for membership in the National Association of Social Workers.

The School’s objectives are (1) to provide educational and professional training in social work which will prepare students for responsible and creative careers; (2) to promote scholarly inquiry into social problems, policies, and programs that will enhance the welfare of the people; and (3) to support social services in the community through faculty participation in professional and community organizations and through research and educational programs.

Admission to the school is granted by its faculty on the basis of the applicant’s undergraduate record and personal qualifications. Admission requirements and procedures are described in the School of Social Work Bulletin and the Graduate School Catalog. Students enrolled in other divisions of the University who have appropriate standing may register for social work courses numbered below 5000 for which they have the specific prerequisites. Graduate students in other departments may register for social work courses, except internship, for which they have the prerequisites. In addition, these students must obtain the permission of the instructor and the director of the M.S.W. program.

Students who receive a baccalaureate degree in social work in a program accredited by the Council on Social Work Education may be eligible for admission into the M.S.W. program. Such students are normally exempt from taking the foundation courses. They may, however, be required to take additional field internship courses or other course work as deemed necessary.

Minimum requirements for the M.S.W. degree are: (a) 60 semester hours of credit following the prescribed sequence of course work; (b) one academic year, ordinarily two consecutive semesters, in residence at LSU; (c) an overall grade-point average of 3.00 and no grade lower than a “C” in any course applied toward the degree; and (d) satisfactory completion of a thesis or comprehensive examination.

**SCHOOL OF VETERINARY MEDICINE**

DEAN: Besch, Professor

OFFICE: 1102 Veterinary Medicine Building
TELEPHONE: (504) 346-3200

ASSOCIATE DEAN: Hidalgo, Professor

ACTING ASSISTANT DEAN FOR RESEARCH AND ADVANCED STUDIES: Springer, Professor
ASSISTANT DEAN FOR STUDENT AND PUBLIC AFFAIRS: Rhoades, Professor
COORDINATOR FOR ADVANCED STUDIES: Roberts, Professor
VETERINARY EDUCATIONAL RESEARCH: Ohlendorf, Associate Professor

**Department of Epidemiology and Community Health**

HEAD: Hagstad, Professor

PROFESSORS: Hagstad, Hugh-Jones, Shane, Rhoades
ASSOCIATE PROFESSOR: Smith
ASSISTANT PROFESSOR: Miller

OFFICE: 3110 Veterinary Medicine Building
TELEPHONE: (504) 346-3335

**Department of Veterinary Anatomy and Fine Structure**

HEAD: Banks, Professor

PROFESSORS: Banks, Hillmann
PROFESSOR EMERITUS: Titkemeyer
ASSOCIATE PROFESSORS: Al-Bagdadi, Duffield, Haldiman, Henk, Melrose
ASSISTANT PROFESSOR: Daniloff
INSTRUCTORS: Littlefield-Chabaud, Moore

OFFICE: 2506 Veterinary Medicine Building
TELEPHONE: (504) 346-3246

**Department of Veterinary Clinical Sciences**

HEAD: Lingard, Professor

ASSOCIATE PROFESSORS: Foil, Glaze, Hedlund, Hribernik, Karns, Martin, J. R. McClure, Olcott, Pechman, Turnwald, Waldron
ASSISTANT PROFESSORS: A. L. Bertone, J. J. Bertone, Budsberg (Visiting), Bukowiecki, Claxton, Elts, Elkins, Fletcher, Freestone, Holmes, Hoyt, Morris, Neer, van EE, Wolfsheimer
INSTRUCTOR: Tully
ADJUNCT FACULTY: Burns, Lea, Pirie, Watson

OFFICE: 1823 Veterinary Medicine Building
TELEPHONE: (504) 346-3108

**Department of Veterinary Microbiology and Parasitology**

HEAD: Stor, Professor

PROFESSORS: Amborski, Besch, Corstvet, Cox, Dommert, Hidalgo, Issel, Klei, Malone, Stewart, Storz
ASSOCIATE PROFESSORS: Thune, Todd
ASSISTANT PROFESSORS: Newman, Schnorr
ADJUNCT FACULTY: England, Gillis, Hastings, Hoskins, Krahenbuhl, Krotoski, Overstreet, Shannon

OFFICE: 3313 Veterinary Medicine Building
TELEPHONE: (504) 346-3312

**Department of Veterinary Pathology**

HEAD: Casey, Professor

PROFESSORS: Casey, Roberts, Taylor
ASSOCIATE PROFESSORS: Cho, Gossett, Hodgin, Snider
ASSISTANT PROFESSORS: Gaunt, Howeth, Lozano, Newton, O’Rourke, Schmidt, Williams
ADJUNCT FACULTY: Baskin, Blanchard

OFFICE: 2307 Veterinary Medicine Building
TELEPHONE: (504) 346-3225

**Department of Veterinary Physiology, Pharmacology, and Toxicology**

HEAD: Short, Professor

PROFESSORS: Crawford, Ingraham, Short
PROFESSOR EMERITUS: Morrissette

OFFICE: 2536 Veterinary Medicine Building
TELEPHONE: (504) 346-3202
Department of Veterinary Science

ACTING HEAD: Springer, Professor
OFFICE: 111 Dalrymple
TELEPHONE: (504) 388-4194

ASSOCIATE PROFESSORS: Flory, French, Thune, Todd
INSTRUCTOR: Adams

The LSU School of Veterinary Medicine admitted its first students to the professional curriculum during the 1973-74 academic year. The original entering class consisted of 36 students, all residents of Louisiana. Class size has increased significantly in recent years. The school participates in the Southern Regional Education Board’s (SREB) program for education in veterinary medicine. Training contracts negotiated through SREB provide a limited number of entering spaces for qualified candidates from Arkansas and Puerto Rico.

The school received full accreditation from the Council on Education of the American Veterinary Medical Association in April 1977, which was reaffirmed in 1984.

The School of Veterinary Medicine offers the professional degree, Doctor of Veterinary Medicine. Interdepartmental Master of Science and Doctor of Philosophy degree programs in veterinary medical sciences are offered through the Graduate School.

The Professional Program

Admission Requirements

Students contemplating a career in veterinary medicine should acquire a sound foundation in the biological and physical sciences and a general knowledge of the arts and humanities in both high school and college. In addition, they should be motivated by a liking for animals, a sincere desire to serve the public, a propensity for the biological and medical sciences, and a deep interest in promotion of the health of animal and human populations. They must have a high aptitude for scientific study and must possess an excellent moral and ethical character.

Candidates for the Doctor of Veterinary Medicine degree must complete a minimum of six years of college education. This includes two or more years of preveterinary training and four years of professional training. The preveterinary requirements may be completed at LSU or any other accredited college or university offering courses of the quality and content of those prescribed in the LSU General Catalog. (See the section of this catalog entitled “College of Agriculture” for the preveterinary medicine curriculum at LSU.)

The minimum requirement of 66 semester hours, including 23 hours of elective courses, may be completed in two years. Successful completion of a preveterinary program does not insure admission to the school for professional training. Currently, there are more qualified applicants each year than there are spaces available in the entering class. Instruction in the four-year program is available only through the School of Veterinary Medicine at LSU.

Scholastic achievement is measured by performance in the prescribed preprofessional courses. A minimum grade-point average of 2.50 (“A” = 4) in these courses is required for consideration for admission. A grade of less than “C” in a required course is unacceptable. Physical education activity courses may not be used as electives for meeting minimum preprofessional requirements. Credit earned through advanced standing is acceptable, but is not used in the computation of grade-point averages. Evaluation of each applicant’s record in the preprofessional program is made in accordance with LSU procedures.

Credit is not granted for College Level Examination Program (CLEP) General Examinations. Granting of credit for CLEP subject examinations may be considered in those subjects recommended by various departments of the University upon receipt of test scores indicating the student meets the minimum acceptable scores required by those departments.
Admission Procedures

Admission to the School of Veterinary Medicine is granted only for the fall semester of each school year and only on a full-time basis. A prescribed number of student spaces is planned for each class, and a formal application with supporting credentials is required of each applicant.

The Committee on Admissions and Scholastic Standing is responsible for determining the application procedure and for selecting the entering class in the professional curriculum. All preprofessional requirements must be completed by the end of the spring semester of the calendar year in which application is made. Formal applications from Louisiana residents may be submitted no earlier than January 1 and no later than February 15 of the calendar year in which admission is sought. Applications from residents of contract states must be received between January 1 and February 1. Students reapplying must submit a new application for each application period. Students admitted and enrolled in the school must be capable of meeting satisfactorily all requirements of the curriculum in veterinary medicine. Eligible candidates are interviewed by members of the Committee on Admissions and Scholastic Standing and are carefully selected to insure that they are properly motivated, competent to undertake the rigorous course of professional study, and capable of meeting the demands of a professional career.

Academic and nonacademic qualifications are considered in the selection process. Selection for admission is based on the sum of two scores: an objective score which comprises approximately 60-70 percent of the final calculation and a subjective score which comprises the remainder.

The objective evaluation is based on scholastic achievement and standardized test scores. Official transcripts of college course grades are examined to determine scholastic achievement.

The total objective score is derived from the grade-point average (gpa) on required courses, the grade-point average on the most recent 45-60 semester hours of course work, and the results of the Medical College Admission Test.

New knowledge, especially in the sciences, is accruing at a rapid rate and records of students who have completed their preprofessional requirements several years prior to application will be carefully scrutinized. All required science courses should be completed within six calendar years immediately prior to application. At least one course in organic chemistry, biology, and physics must be completed within the last six years.

The Medical College Admission Test (MCAT) is given only twice a year. In order for the results to reach the committee before the end of the application period, candidates must apply for the test in the spring or summer of the year preceding their application.

The subjective evaluation of applicants is based on nonacademic qualifications considered to be relevant to the determination of the applicant's prospective performance in the veterinary medical curriculum and in the practice of veterinary medicine. Motivation, maturity, attitude, interest, and other characteristics will be evaluated for all qualified candidates along with work experience, familiarity with animals, and reference information submitted in support of the application. These qualities are evaluated by two separate committees. The first committee reviews the supporting documents (an autobiography, letters of recommendation, transcripts, work experience, and familiarity with animals). The second committee evaluates the individual through a personal interview. These appraisals result in an average subjective score which is added to the objective score to produce the total numerical evaluation of the candidate. Through this process, the professional judgement of several faculty members is included in arriving at a final decision.

Minimum Prerequisites for Admission (66 Sem. Hrs.)

A minimum of 66 semester hours is required for admission to the professional program. This must include the 43 semester hours (minimum mandatory requirements) listed below:

**Biological Science, 10 sem. hrs.:** Must include at least 8 sem. hrs. (two-semester course sequence with laboratory) in introductory zoology or general biology at a level appropriate for premedical students. *LSU courses—Zoology 1001, 1002.* The remaining biological science hours may be elected from either biological or animal science.

**Inorganic Chemistry, 8 sem. hrs.:** Must include laboratory and must be at a level for science or engineering majors. *LSU courses—Chemistry 1201, 1202, 1212.*

**Organic Chemistry, 8 sem. hrs.:** Must include laboratory and must be at a level for science majors. *LSU courses—Chemistry 2261, 2262, 2364.*

**Mathematics, 5 sem. hrs.:** Must be at the college algebra/trigonometry level or higher. *LSU courses—Mathematics 1021, 1022.* Students who qualify for more advanced math may substitute Mathematics 1023 (5 sem. hrs.) for 1021 and 1022.
PhysicS, 6 sem. hrs.: Must be at a level for science majors and must include mechanics, heat, sound, light, electricity, magnetism, and topics in modern physics. LSU courses—Physics 2001, 2002.

Communication Skills, 6 sem. hrs.: Must include 6 sem. hrs. of English composition. LSU courses—English 1001, 1002.

In selecting the remaining required courses for admission to the professional program, applicants should consider the following:

1. The objective of the D.V.M. program is to offer a well-rounded curriculum in veterinary medical education enabling the graduate to select from a wide range of professional opportunities. The selection of elective courses in the preprofessional curriculum should reflect the interests and objectives of the candidate. Potential applicants should plan their programs with the recognition that these elective courses provide the only formal opportunity in the college years to obtain a broad general education.

2. Applicants who have completed advanced preparatory courses in high school are, in all probability, qualified to complete the prerequisites in four semesters. These students are encouraged to take higher level university courses when so permitted. Applicants who are inadequately prepared may find it advantageous to complete the preveterinary requirements over a longer period.

3. Although the primary objective of the applicant may be to complete the preveterinary requirements, those who have not previously obtained a baccalaureate degree are encouraged to plan for alternative career possibilities through a degree-granting program which has similar course requirements. Several LSU curricula include all of the minimum mandatory requirements. Many other curricula which do not specify all of the requirements allow them as electives.

Since not all applicants will gain admission to the School of Veterinary Medicine on the first attempt, they should continue in degree programs while making themselves more competitive in subsequent years. Some students may elect to complete a baccalaureate degree in order to pursue graduate training during the first and second summers of the professional program.

4. Since applicants must take the MCAT in the fall preceding application or earlier, those students following a four-semester program must complete this test only four weeks after beginning the sophomore year. Appropriate preparation and the selection of a curriculum which contributes to an acceptable score are strongly suggested.

Students who are enrolled at accredited institutions other than LSU must determine that courses taken conform in content and quality to descriptions contained in the latest issue of the LSU General Catalog, which can be obtained upon request from the LSU Office of Student Records and Registration ($3.00 per copy).

All requirements must be completed by the end of the spring semester of the year in which admission is sought. The MCAT must be completed in the fall preceding the year in which admission is sought. Applicants who have not taken the MCAT by the fall preceding the application date will not be granted an interview or considered for acceptance.

Information concerning LSU’s preveterinary medicine program is contained in this LSU General Catalog or may be obtained from the dean of the College of Agriculture.

The Graduate Program

The interdepartmental program in veterinary medical sciences provides graduate academic training in veterinary medicine. It includes intensive research training in various options.

Most students engaged in advanced studies in veterinary medicine will have received the D.V.M. degree and have elected to pursue intensive postdoctoral training in one or more of the disciplinary or specialty areas of veterinary medicine.

CENTER FOR WETLAND RESOURCES

DEAN: Van Lopik, *Professor

BOYD PROFESSOR: Patrick*

LSU FOUNDATION JAMES C. BOLTON PROFESSOR OF PORTS AND WATERWAYS: Hochstein

*Members of the Department of Marine Sciences instructional faculty.
The Coastal Ecology Institute, the Coastal Fisheries Institute, the Department of Marine Sciences, the Ports and Waterways Institute, the Office of Sea Grant Development, and the Laboratory for Wetland Soils and Sediments comprise the Center for Wetland Resources.

**Coastal Ecology Institute**

DIRECTOR: Carney, Associate Professor  
OFFICE: 236 Wetland Resources Building  
TELEPHONE: (504) 388-6515

The Coastal Ecology Institute is a research unit whose scientific faculty investigate the wide range of ecosystems encountered in the coastal zone. The disciplinary specialties of the institute include ecology, systems theory, hydrology, and coastal oceanography. Research is directed at development of a system level of understanding. Of special interest is the development of a capacity to understand the interaction of biotic and abiotic factors distributed over a large and complex area. Research in the institute includes field and oceanographic sampling, hydrological modeling, ecological simulation, and remote sensing.

The dynamic coastal wetlands and the nearshore marine environment of Louisiana are the sites of most of the institute’s research. Areas of research include land loss, marsh subsidence, sea level rise, the emergence of the Atchafalaya Delta, and impact of habitat modification. Additional research is underway in environments similar to Louisiana’s in Central America, Europe, China, and elsewhere within the United States.

**Coastal Fisheries Institute**

ACTING DIRECTOR: Wascom, Assistant Professor  
OFFICE: 228 Wetland Resources Building  
TELEPHONE: (504) 388-6455

Because of the importance of Louisiana’s commercial and recreational fisheries, a unified, comprehensive program of fishery research, education, and advisory services was adopted by the Louisiana Legislature in 1983—the Fisheries Initiative. This initiative, which expands the fishery activities of the Louisiana Sea Grant College Program, was designed to assist state and federal agencies and fishing organizations with: (1) acquisition, scientific analysis, and interpretation of data needed to enhance existing commercial and recreational fisheries; (2) development of new fishing and seafood processing opportunities; and (3) expansion of domestic and foreign markets for Louisiana seafood. Research at CFI integrates knowledge from biology, economics, oceanography, law, statistics, and other disciplines to assist appropriate governmental and private sector organizations in resource management, fisheries and market expansion, environmental studies, and development of processing techniques. Research has centered around such diverse areas as solving fisheries legal problems; providing data and critical analyses on controversies over red drum, sea turtles, king mackerel, spotted seatrout, and shrimp; and planning the conversion of offshore drilling rigs to artificial reefs to enhance fishing.

In addition, the CFI program has funded graduate student research, provided up-to-date information to fisheries extension agents, and collected and evaluated fisheries catch, landings, and biological data useful to Louisiana’s wildlife and fisheries managers and federal fisheries scientists.

**Department of Marine Sciences**

ACTING CHAIRMAN: Carney, Associate Professor  
OFFICE: 111 Wetland Resources Building  
TELEPHONE: (504) 388-6308

*Members of the Department of Marine Sciences instructional faculty.
This department offers both the Master of Science and the Doctor of Philosophy degrees, and encourages expansion of marine-related instruction in other academic departments. Overall emphasis is given to the fundamental understanding and practical application of knowledge concerning the physical, chemical, biological, geological, meteorological, economic, and legal aspects of those environments usually identified as nearshore, coastal, or estuarine. The more than 4700 square miles of fresh- to brackish-water marsh found in Louisiana comprise the Gulf Coast’s most important nursery ground for fisheries and serve as a vast natural laboratory for the department’s field research. Most departmental faculty also hold joint appointments with one or more of the appropriate research units of the Center. Some faculty of other academic departments of the University are also affiliate members of the department.

Admission to the marine sciences program requires admission to the Graduate School and a strong bachelor’s or graduate degree in an approved field of science or engineering. Complete descriptions of all courses offered by the Department of Marine Sciences are included in this catalog.

### Ports and Waterways Institute

**DIRECTOR:** Hochstein, James C. Bolton Professor  
**OFFICE:** 60 University Lakeshore Dr.  
**TELEPHONE:** (504) 388-2773

The Ports and Waterways Institute conducts and administers the University’s maritime-related research, education, and advisory activities. Emphasis is on the solution of practical problems confronting the maritime transportation and offshore industries. Institute programs encompass inland waterways, coastal ports, fishing ports, and the interface between shallow- and deep-draft navigation. To achieve practical results, the institute bases its activity on analysis of all major components of water transportation and their interactions. Areas of institute expertise include strategic planning for maritime industry; assessment of waterborne commerce in international and domestic trade; port management and administration; market analysis and traffic intermodal allocation; inland barge and oceangoing vessel operation; navigation channel and lock design and capacity estimates; assessment of shoaling rates, dredging requirements, and costs; and port and offshore technology.

It is the institute’s mission to maintain close liaison with a broad spectrum of public, private, and research/educational organizations with interests in marine transportation in the U.S. and overseas. Research and training programs are defined in response to maritime transportation needs. National, state, and regional benefits are assessed in defining policies, operational measures, and investments in waterways and ports improvements. Impact of shipping industry and ports performance on transportation costs, revenues and tariffs, regional employment, and industrial development are considered.

### Office of Sea Grant Development

**DIRECTOR:** Van Lopik, Professor  
**OFFICE:** 124 Wetland Resources Building  
**TELEPHONE:** (504) 388-6710

The Louisiana Sea Grant College Program, a part of the National Sea Grant Program, is administered by the National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce. The sea grant concept uses the capabilities of educational institutions, laboratories, and public and private agencies to conduct research and solve practical problems related to the development of marine and coastal resources. Three general categories of activities are called for under the sea grant mandate: training and education, with emphasis on providing people with the knowledge and skills necessary for marine resource development; research aimed at developing practices, techniques, and equipment to facilitate the use of marine resources; and advisory and information programs to provide scientists, engineers, educators, industrialists, and the general public with useful information on marine resources and discoveries through publications and the marine extension service. LSU’s Office of Sea Grant Development is responsible for administering research, training, and information programs approved by NOAA for sea grant funding in Louisiana. Emphasis is given to the encouragement and development of programs involving scientific and economic aspects of marine environments, usually described as shallow-water, nearshore, coastal, or estuarine.

In 1978, LSU was named a Sea Grant College—the 13th university in the nation to be so designated and the highest classification attainable in the program.
Established in 1977, the Laboratory for Wetland Soils and Sediments researches sediment chemistry/plant relations in natural wetland ecosystems such as salt marshes, fresh and brackish marshes and swamps, and floodplains, and the chemical and biological behavior of plant nutrients and toxic substances in wetland ecosystems. The environmental impacts of pesticides, toxic heavy metals, hydrocarbons, and plant nutrients in wetlands are major areas of expertise. Current studies deal with (1) response of wetland plants to various environmental stresses such as anaerobic soil conditions and salinity, (2) biogeochemical cycling of nitrogen and carbon in fresh, brackish, and saline wetlands, (3) factors affecting biodegradation of toxic organic compounds in wetlands, (4) physicochemical reactions of toxic metals in soils and sediments, (5) comparative ecosystem functioning of wetlands and nonwetlands, and (6) chemical, physical and biological factors affecting coastal marsh stability. In addition to university support, the laboratory receives financial support from various federal and state agencies.

Biodynamics Institute

The Biodynamics Institute was established to encourage research on free radical chemistry, oxidative transformations, and free radical biology. These interdisciplinary areas extend into chemistry, biochemistry, enzymology, nutrition, vitaminology, and toxicology. Radical reactions are involved in cancer, emphysema, and other chronic, life-shortening diseases. In fact, radical reactions appear to be involved in human aging itself, and those micronutrients that protect against oxidative stress, such as vitamin E, are free radical scavengers. Because Louisiana has pollution problems and some areas have cancer rates far above national averages, the studies of this institute are especially relevant.

Faculty members in the institute may have joint appointments in other departments and the institute actively encourages joint research programs with other departments such as Chemistry, Biochemistry, Microbiology, and the Institute for Environmental Studies.
School of Music

DANIEL P. SHER, Dean
JERRY F. DAVIDSON, Associate Dean
JOHN R. RAUSH, Assistant Dean
102 Music Building
(504) 388-3261

The School of Music’s educational purpose is to assist students in the development of their innate musical talents and to help them make the musical arts a cultural asset in their own lives and in the lives of others.

To attain these goals, the School of Music offers several curricula and special courses of vocational as well as avocational nature. These curricula are outlined in the following chart. The vocational programs prepare students to be performers, teachers, composers, and church musicians, and culminate with the undergraduate degree, Bachelor of Music, awarded through the School of Music. The Bachelor of Music Education degree, designed to train students to teach vocal and instrumental music in the public schools where state certification is required, is offered in conjunction with the College of Education (see the “College of Education,” for curricula). Persons wishing a broader variety of subjects in addition to a basic foundation in music may follow the curriculum leading to the Bachelor of Arts degree offered in conjunction with the College of Arts and Sciences (see “Curricular Requirements,” and “Curricula Administered by the College,” in the “College of Arts and Sciences” section of this catalog).

The first two years of a music therapy curriculum are offered at LSU. Avocational programs are offered through courses in music appreciation, music history, music fundamentals, and jazz history. Participation in the various performing organizations is also available, based upon audition. Private lessons are offered to students who qualify through audition, based on the availability of teacher time.

The curricula in music education meet requirements of the Louisiana State Department of Education for accrediting various types of music instructors in the Louisiana public schools and are approved by the National Council for Accreditation of Teacher Education and the National Association of Schools of Music. The School of Music is an accredited institutional member of the National Association of Schools of Music.

CURRICULA

SCHOOL OF
MUSIC

Composition-Theory
Instrumental Major (excluding keyboard instruments)
Keyboard Performance
Sacred Music (with options)
Voice

DEGREE

Bachelor of Music
ADMISSION REQUIREMENTS

From Junior Division: Students may be admitted to the School of Music from Junior Division on the bases given in the Junior Division section entitled "Admission to a Senior College from JD," provided that they have credit for the freshman-year courses of the curriculum they plan to follow. Students must have earned an overall average of 2.00 or better in order to be admitted unconditionally to the school. Freshmen who plan to work for a degree in music should register for the courses listed in the freshman year of the music curriculum of their choice.

By Transfer: Transfer students from other divisions of the University or from other colleges and universities who have met the general entrance requirements of the University, who have completed college courses equivalent to those offered in Junior Division, and who have passed the required audition for admission may be admitted to the school.

All transfer students must take an advisory examination in theory. This includes ear-training, keyboard work, harmonization, and analysis. The results of the examination will be used to aid in planning a practical schedule of courses consistent with the student's training and ability. The examinations are given at stated times during registration in each semester or summer term.

AUDITIONS

For Admission: An audition in the major performance medium (piano, voice, etc.) is required of all students wishing to pursue curricula in the School of Music or music curricula administered through the College of Arts and Sciences, the College of Education, or Junior Division. The audition can be on campus or by tape recording. Contact the School of Music for details.

For Applied Music Courses: On each registration day applied music teachers hear auditions by new students in order to determine each student's level of proficiency. New students should schedule an audition before registering; they must do so before registration ends. Students who have been out of school for more than one year and who return to continue in a performance curriculum must reaudition.

For Ensemble Courses: Auditions for ensemble courses will be held at stated times during registration. Students who expect to register for the first time in any of these organizations must appear at one of the hours designated for an audition. Auditions for band (Music 4250, 4251, 4252, 4253) are normally held during the regular semester preceding the semester in which the student wishes to participate. However, students may also audition during the registration period of the performance semester. For details contact the Director of Bands.

CORRESPONDENCE AND EXTENSION CREDITS

Up to one-fourth of the number of hours required for the baccalaureate degree may be taken in correspondence and/or extension courses. Acceptance of such work is contingent upon its applicability to the student's curriculum; therefore, students should obtain approval from the dean of the School of Music before registering for correspondence or extension courses.

Correspondence study in theory and work in applied music completed through other universities or colleges must be verified as corresponding to this University's level of accomplishment by examination and auditions.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

A person holding a baccalaureate degree who wishes to obtain a second baccalaureate degree through this school must satisfactorily complete all requirements in the music curriculum selected. In addition, general University requirements for a second bachelor's degree must be met.

GRADUATE PROGRAMS

The Graduate School offers the following degrees in the field of music: Master of Music, Master of Music Education, Master of Arts with a major in music, Doctor of Musical Arts, and Doctor of Philosophy with a major in music. The requirements for these degrees are given in the Graduate School Catalog.
Faculty and Curricula

DEAN: Sher, Professor

OFFICE: 102 Music Building
TELEPHONE: (504) 388-3261

BOYD PROFESSOR: Constantinides

PROFESSORS: Arroyo, L. Campbell, Foss Guerry, Hallman, Knowles, McKenzie, Norem, O'Reilly, Sher, Spillman, Wickes, Yarbrough

ASSOCIATE PROFESSORS: Aslanian, Astraquillo, Brown, Davidson (Associate Dean), Etienne, Fulton, Grayson, Herlinger, Kemler, Klimash, Kosmala, Kungle, Ostoich, Raush (Assistant Dean), Riley, Walter, West

ASSISTANT PROFESSORS: G. Campbell, Chung, Falby, Grimes, Gurt, Harris, Kaplan, Ludwig, Saxon, Smyth

INSTRUCTOR: Moorhouse

All students enrolled for private lessons in performance, regardless of their college or school (with the exception of graduate keyboard and graduate voice students) may, at the discretion of the dean of the School of Music, in consultation with the conductor of the organization concerned and the applied teacher, be required to participate in one of the major performing organizations for laboratory experience. Students are not charged for private lessons or for use of school-owned instruments, lockers, equipment, or practice rooms. A nonrefundable fee of $35 is charged when a recital is scheduled.

An honors curriculum is available within the Bachelor of Music curriculum. Students should contact the Division of Honors and Interdisciplinary Studies and the School of Music for details.

Electives may include six semester hours of basic ROTC. All students in the School of Music are required to take those courses in science, humanities, social sciences, analytical reasoning, and fine arts which will satisfy the general education requirement. Please refer to the list of approved general education courses which can be found in a separate section of this catalog.

At the completion of the fourth semester of study, all majors in music and music education will be required to take a performance examination which will determine continued study as a major at the junior level. Composition majors will be required to submit written examples of their work to the appropriate undergraduate committee. Consult the guidelines, standards, and procedures developed by each individual area.

CURRICULUM IN COMPOSITION—THEORY
TOTAL SEM. HRS.: 136

Participation in the Composer's Forum is required of all composition students. Electives in such areas as computer science, acoustics, and aesthetics are recommended.

*All students in this curriculum must show piano proficiency at the level of completion of MUS 1133.

**Required in theory option; urged for those in composition option.

***Required in composition option.

FRESHMAN YEAR SEM. HRS.

English 1001, 1002 6
Mathematics 1021 3
Music 1700 0
Music 1701, 1702, 1741, 1742 12
Applied music courses* 4
Large ensemble courses 2
General education analytical reasoning course 3
Free electives 4

34

JUNIOR YEAR SEM. HRS.

Music 1700 0
Music 3711, 4723 6
Music 3741 (taken twice) 6
Music 2000 3
Major applied 4
General education humanities courses 9
General education natural sciences course 3
Electives 3

34

SOPHOMORE YEAR SEM. HRS.

Music 1700 0
Music 1753, 1754, 2711, 2712, 2741, 2742 20
Applied music courses* 4
Large ensemble courses 2
General education natural sciences courses 6
Free electives 2

34

SENIOR YEAR SEM. HRS.

Music 1700, 4769** 2
Music 3741*** or 4753 or 4754 2-3
Music 3741, 4743 6
Music 4718, 4719, 4730 8
Music 4798 or 4796 0-2
Music history electives 4
General education social sciences courses 6
Electives 4-7

34
Piano proficiency at the level of Music 1133 or equivalent is required.

*It is expected that students will elect 8 hrs. of major ensemble and 4 hrs. of chamber ensemble.

**CURRICULUM IN INSTRUMENTAL MAJOR (EXCLUDING KEYBOARD INSTRUMENTS)**

TOTAL SEM. HRS.: 136

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<tbody>
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<tr>
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<tr>
<td>Music 1700</td>
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</tr>
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<td><strong>TOTAL</strong></td>
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<td>Music 1132, 1133</td>
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<td>General education natural sciences courses</td>
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<td>General education humanities electives</td>
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<td>General education natural sciences elective</td>
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<td>Electives</td>
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<td><strong>TOTAL</strong></td>
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<tr>
<td>Music history electives</td>
<td>4</td>
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<tr>
<td>General education social sciences electives</td>
<td>6</td>
</tr>
<tr>
<td>Approved music electives</td>
<td>6</td>
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<tr>
<td>Electives</td>
<td>6</td>
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<tr>
<td><strong>TOTAL</strong></td>
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</table>

**CURRICULUM IN KEYBOARD PERFORMANCE**

TOTAL SEM. HRS.: 132

In addition to the senior recital, piano performance majors are required to perform solos in at least four student recital programs or their equivalent throughout the period of undergraduate study. A junior recital may be elected in lieu of two such appearances with approval of the major professor.

Piano majors in pedagogy are required to perform solos in at least two student recital programs or their equivalent throughout the period of undergraduate study in addition to the senior recital. The senior recital may be a joint recital or its equivalent.

All piano majors are required to demonstrate proficiency in sight reading by the end of the fourth semester of study. Electives are to include courses in piano literature and pedagogy.

*Students may use ensemble credit for large ensemble participation or for piano accompanying (4101) or chamber music (4220 or 4224).

<table>
<thead>
<tr>
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<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>English 1001, 1002</td>
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<td>Music 1701, 1702</td>
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<td>Music 1700</td>
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<td>Applied music courses</td>
<td>8</td>
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<tr>
<td>Large ensemble courses*</td>
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<td>Electives</td>
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<td><strong>TOTAL</strong></td>
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### CURRICULUM IN SACRED MUSIC (WITH OPTIONS)

**TOTAL SEM. HRS.: 138**

*Voice majors must satisfy piano proficiency at the Music 1133 level and complete two semesters of applied organ (Music 3133). Organ majors must complete two semesters of applied voice (Music 3130). For students in the organ option, 4701 and 4702 are recommended.*

*Required of all students in the voice option.*

**Required of all students in the organ option.**

<table>
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<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Music 1701, 1702</td>
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<td>Music 1132, 1133* or 2100, 2101**</td>
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<td>Music 1130, 1131*</td>
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<td>Free electives</td>
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## CURRICULUM IN VOICE
TOTAL SEM. HRS.: 134

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## CURRICULUM IN MUSIC THERAPY

LSU has a program in music therapy coordinated with Loyola University in New Orleans. Contact the dean of the LSU School of Music for information.

## MUSIC CURRICULA OUTSIDE THE SCHOOL OF MUSIC

The College of Education offers the Bachelor of Music Education degree with a major in music education and concentration in instrumental music or vocal music. Students interested in music education should refer to these curricula in the "College of Education" section of this catalog.
The Reserve Officers Training Corps program at LSU continues the military heritage which has been part of this institution since 1860.

The Army and Air Force ROTC programs are offered for men and women. Through a cross-enrollment agreement between LSU and Southern University, LSU students may also participate in Navy ROTC. Participation in these programs is optional. These programs develop selected college-educated students for positions of responsibility and leadership in the U.S. armed forces and offer students an educational experience not otherwise available at this University.

"Military Science" and "Aerospace Studies" are the titles of the Army and Air Force ROTC programs, respectively. Military science, aerospace studies, and naval science are recognized electives, and students may choose to pursue Army, Air Force, or Navy curricula. Army ROTC cadets must take History 4066, a course in military history, prior to graduation. Air Force ROTC cadets who are not in a curriculum including a course in mathematical reasoning must complete a three-hour course in this area approved by the head of the Department of Aerospace Studies. Additionally, Army and Air Force ROTC scholarship cadets are required to complete course work (Army—one semester; Air Force—two semesters) in a major Indo-European or Asian language.

Both Army and Air Force ROTC conduct two- and four-year programs. Successful completion of either will result in the student being offered a commission in the appropriate service. In addition, financial assistance programs which cover University fees, books, laboratory fees, and related academic expenses and include a $100 monthly subsistence allowance are available for selected students. Students enrolled in the Army ROTC program may compete for scholarships of two-, three-, or four-years' duration. Students enrolled in Air Force ROTC may compete for scholarships of four, three and one-half, three, two and one-half, or two years' duration.
ELIGIBILITY

In order to be considered for enrollment in an ROTC program, a student must: (1) be a full-time student; (2) be a U.S. citizen or an applicant for naturalization; (3) have good moral character as required by military regulations; (4) for the advanced program, be physically qualified to participate as prescribed by the Department of Defense; (5) be at least 14 years of age upon enrollment in the Air Force ROTC program, at least 15 years of age upon enrollment in the Army ROTC program, and at least 17 years of age upon enrollment in the Naval ROTC program; and (6) take and sign the Oath of Allegiance.

FOUR-YEAR PROGRAM

The four-year program is divided into two phases—the freshman/sophomore phase and the junior/senior phase. These two phases are officially called the "basic" and "advanced" programs by the Army; the Air Force designates them as the "general military course" and the "professional officer course." Students who have completed the freshman/sophomore phase may apply for the junior/senior phase. Selection for enrollment into the latter is made from those who have demonstrated that they possess the qualities necessary to qualify for a commission, including satisfactory performance on the Air Force Officer Qualifying Test for the Air Force program. Veterans and students who had junior ROTC training while in high school may be granted credit for the freshman/sophomore phase and may enter the junior/senior phase if their application is approved by the professor of military science or the professor of aerospace studies.

TWO-YEAR PROGRAM

The two-year program extends the advantages of ROTC to junior-college graduates, transfer students, and LSU students who did not enroll in the freshman/sophomore phase. Upon successful completion of a six-week summer training period, the student applying for the two-year program may enter the junior/senior phase. A college junior, with no Army ROTC experience, can earn a commission by enrolling in the junior year of ROTC and agreeing to attend two six-week training camps—one at the end of his/her junior year and the other after graduation from college.

CADET PAY

Students enrolled in the last two years of either ROTC program who are under contract with the respective service will receive a $100 monthly tax-free subsistence allowance during each academic year. During the required four- or six-week training period (normally between the junior and senior years for Army ROTC and between the sophomore and junior years for Air Force ROTC), they will receive one-half the pay of a second lieutenant plus travel expenses.

AIR FORCE FIELD TRAINING

Air Force ROTC field training is offered during the summer months at selected Air Force bases throughout the United States. Students in the four-year program participate in four weeks of field training prior to enrollment in the Professional Officer Course. The major areas of study in the four-week field training program include junior officer training, aircraft and aircrew orientation, career orientation, survival training, base functions and Air Force environment, and physical training. The major areas of study included in the six-week field training program are essentially the same as those conducted at the four-week field training and in the General Military Course. Field training normally occurs between the sophomore and junior years.

ARMY SIMULTANEOUS MEMBERSHIP PROGRAM

This program combines service in the Army National Guard or U.S. Army Reserve with enrollment in the Army ROTC program. Students who qualify join a National Guard or Reserve unit as an officer trainee and attend Army basic training. They may, if approved, then enroll in the advanced Army ROTC program at LSU. The students will attend ROTC instruction and training with the appropriate military unit one weekend per month and two weeks in summer. Students
enrolled in this program will receive $100 monthly for the ROTC program plus the equivalent of a sergeant's pay for the monthly drill attendance and two weeks annual training. At the end of the advanced ROTC program, these students will apply for commissions in the Active Army, Army National Guard or the Army Reserve.

THE NAVAL RESERVE OFFICERS TRAINING CORPS

Through a cross-enrollment agreement between LSU and Southern University, LSU students are eligible to enroll in the Naval Reserve Officers Training Corps leading to a commission in the U.S. Navy or Marine Corps. Openings are available in the four-, three-, or two-year programs. Navy ROTC is open to male and female students, and many naval science courses are taught on the LSU campus. There is no additional cost to full-time LSU students to cross-enroll in the NROTC program. Students incur no obligation while participating in the freshman and sophomore years. NROTC scholarship appointments are available to college students enrolled in the program who demonstrate satisfactory academic performance and aptitude for commissioned service.

Midshipmen are required to complete two semesters of mathematics courses through college algebra or higher and two semesters of a physical science in addition to naval science courses. Scholarship students have the additional requirement of completing two semesters of calculus (MATH 1550 and 1552), two semesters of physics (PHYS 2101 and 2102), one semester of foreign language, and two semesters of a technical elective if not required in their curriculum. Students who are in the second year of college, have completed one year of college mathematics, and are in good academic standing are eligible to attend the Naval Science Institute (NSI) in Newport, Rhode Island. Successful completion of NSI, an academic and professional naval science program held for six weeks in the summer, qualifies students for enrollment in advanced NROTC courses and enables them to compete for a two-year NROTC scholarship. All costs for attending NSI are paid by the Navy, and students attending are under no obligation.

Navy ROTC offers a wide range of career opportunities including navy and marine corps aviation; surface warfare; civil engineering corps; supply corps; marine corps artillery, infantry, and armor; and nuclear power. Students who are enrolled in a physics, chemistry, or engineering curriculum have the additional opportunity of earning a $3000 bonus as early as their junior year if selected for the Navy Nuclear Power Program.

Information on the naval science curriculum and a listing of naval science courses may be found in the Southern University catalog. Additional details may be obtained from the Professor of Naval Science/Commanding Officer, NROTC Unit, Southern University, Baton Rouge, Louisiana 70813, (504) 771-4370.
Courses of Instruction

The following is a listing of all courses of instruction offered by departments at LSU. This listing was up-to-date and as correct as possible at the time of publication of this catalog.

No credit is given for a course unless the student has been duly registered in that course. The amount of credit given for the satisfactory completion of a course is based on the number of lectures or recitations each week for one semester; for example, one credit represents one hour of lecture or recitation a week for one semester. Two hours of laboratory work (in certain courses, three hours) are considered the equivalent of one lecture or recitation hour. When a course consists entirely or partly of laboratory, that fact is stated in the description. When not otherwise specified, the course consists entirely of lectures or recitations.

The number of credit hours which a course carries per semester is listed in parentheses following the course title. If the number listed is variable, i.e. "(2-4)," the amount of credit which the student is to receive must be stated at the time of registration. Indication of variable credit does not mean that a course may be repeated for credit. If a course can be repeated for credit, that information is included in the course description.

Listing of a course does not necessarily mean that it will be offered this year. Some departments indicate in the course description the semester in which a course is usually offered. This information appears in bold type immediately after the course credit. The following legend is used: F = fall; S = spring; Su = summer; E = course offered even-numbered years; O = course offered odd-numbered years; Y = course offered yearly, semesters vary; V = course offered irregularly. If no information is given, students should contact the department to determine when the course is to be offered.

The phrases "also offered as . . .," "see . . .," or "same as . . ." which appear in some course descriptions, refer to honors courses or to courses that are available through more than one department. In each of these instances, only one of the courses may be taken for credit.

Since this catalog was prepared well in advance of its effective date, some courses may have been added, others may have been dropped, and additional approved changes in content may have been made.
COURSE NUMBERING SYSTEM

An explanation of the first digit of the four-digit course numbering system follows. The meaning of the second, third, and fourth digits varies by department. See "Year Classification of Students" in the "University Regulations" section of this catalog for an explanation of the criteria for classification as a freshman, sophomore, etc.

0001-0999: Offered by the University to permit students to make up deficiencies in previous training or to improve their facility in certain basic skills; not for degree credit.

1000-1999: For undergraduate students, primarily freshmen; for undergraduate credit only. Ordinarily open to all students; in some instances upper-division students may not take these courses for degree credit.

2000-2999: For undergraduate students, sophomore level or above; for undergraduate credit only. Also open to certain freshmen (see "Eligibility to Enroll in Courses Numbered Above 1999") and to part-time beginning students in the Division of General Studies and Community Education.

3000-3999: For advanced undergraduate students, junior- and senior-level; for undergraduate credit only. These courses constitute the advanced portion of an undergraduate program leading to the bachelor's degree.

4000-4999: For advanced undergraduate students (those who have completed a minimum of 60 semester hours), and for students in graduate and professional schools and colleges; for undergraduate or graduate credit. Undergraduates with 30 or more semester hours who are making timely progress toward a degree may be admitted to 4000-level courses. Such students must have a 3.50 or higher GPA, the appropriate prerequisites, and consent of the instructor.

5000-5999: For students in post-baccalaureate professional programs. A student in the Graduate School may take these courses for credit with approval of the student's major department.

6000-6999: Exclusively for teachers at the elementary, secondary, and junior college levels.

7000-7999: For students in the Graduate School; for graduate credit only except as follows. Undergraduates with 75 or more semester hours who are making timely progress toward a degree may be admitted to 7000-level courses. Such students must have a 3.50 or higher GPA, the appropriate prerequisites, consent of the instructor, and permission of the graduate dean. Credit so earned will apply only toward undergraduate degree requirements, except for students enrolled in an accelerated master's degree program.

8000-8999: Research courses exclusively for graduate students, primarily for students working toward the master's degree; for graduate credit only.

9000-9999: Research courses exclusively for graduate students, primarily for advanced graduate students working toward the doctoral degree; for graduate credit only.

COURSE DESIGNATIONS AND ABBREVIATIONS

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**KEY TO COURSE INFORMATION**

- ACCT . . . Course designation
- 2001 . . . Course number
- (3) . . . Course offered yearly;
- F . . . Course offered fall
- S . . . Course offered spring
- Su . . . Course offered summer;
- E . . . . Course offered even-numbered years
- O . . . . Course offered odd-numbered years
- Y . . . . Course offered yearly;
- semesters vary
- V . . . . Course offered irregularly
ACCOUNTING (ACCT)

2000 Survey of Accounting (3) Not for degree credit in College of Business Administration. Credit will not be given for both this course and ACCT 2001. Overview of information contained in financial accounting statements.

2001 Introductory Financial Accounting (3) Credit will not be given for both this course and ACCT 2000. Required of all students in College of Business Administration. Principles and methods of accounting concerned with financial data gathering and presentation in the form of external financial statements: legal and ethical obligations of the accounting profession.

2021 Intermediate Accounting—Part I (3) Prereq: grade of "C" or above in ACCT 2001 or equivalent. Accounting principles underlying preparation of financial statements; their application in measurement and reporting of selected balance-sheet items and related revenue and expense recognition.

2101 Introductory Managerial Accounting (3) Prereq: ACCT 2000 or 2001 or equivalent. Principles and methods of accounting primarily concerned with data gathering and presentation for purposes of internal management evaluation and decision making.

3000 Introduction to Financial Accounting for Managers (3) Open only to M.B.A. students. Basic financial accounting methods and procedures; financial statement analysis; present value applications; and management uses of accounting information.

3021 Intermediate Accounting—Part II (3) Prereq: grade of "C" or above in ACCT 2021. Continuation of ACCT 2021; accounting for liabilities, income taxes, pensions, leases, stockholders' equity, earnings per share, accounting changes and corrections of errors, and income and balance sheet presentations.

3023 Intermediate Accounting—Part III (3) Prereq: ACCT 3021. Continuation of ACCT 3021; statement of changes in financial position, financial reporting and changing prices, financial statement analysis and disclosure, partnerships, and not-for-profit accounting.


3201 Fundamental Tax Problems and Tax Planning for Individuals (3) Not open to accounting majors. Not intended to satisfy the requirements to sit for the CPA exam. For students with little or no previous work in accounting. Credit will not be given for both this course and ACCT 3221. General course in taxation; emphasis on aspects of taxation affecting the individual; federal and state income, estate, inheritance, gift, excise, and payroll taxes.

3221 Income Tax Accounting—I (3) Prereq: credit or registration in ACCT 2021. Credit will not be given for both this course and ACCT 3201. Fundamentals of federal income taxation with respect to individuals, income inclusions and exclusions, and statutory deductions in arriving at tax liability.

3222 Auditing (3) Prereq: ACCT 3021. Nature of public accounting; auditing theory, procedures, and problems; internal control; internal auditing; development of audit programs; evidential matter; and reporting.

3233 Internal Auditing—I (3) Prereq: ACCT 2021. Internal auditing standards, ethics, concepts, audit techniques, and reporting practices.

4021 Cases in Accounting Policy (3) Prereq: accounting major with senior standing. Case approach; integrates financial accounting, systems, auditing, income tax, and management uses of accounting information; emphasis on financial reporting to owners, the financial community, regulatory agencies, and the general public; relationship of accounting to the law.


4221 Income Tax Accounting—II (3) Prereq: ACCT 3221. Fundamentals of federal income taxation, with respect to partners, partnerships, corporations, and shareholders.


4231 Internship in Accounting (3) Prereq: prior consent of department chairman and approval of dean. At least 12 hours per week of learning experience under the general supervision of a faculty member and direct supervision of a professional in accounting. Pass-fail grading based on the faculty member's evaluation, a written report by the professional supervisor, and a written report by the student.

4232 Advanced Auditing (3) Prereq: ACCT 3222. Audit program development and planning, statistical sampling applications in auditing, auditing EDP systems, SEC reporting, and extensions of the attest function.

4234 Internal Auditing—II (3) Prereq: grade of "C" or above in ACCT 3223. Operation, organization, and quality control audits; organization theory.

4244 EDP Auditing (3) Prereq: ACCT 3222. Electronic data processing (EDP) control, audit applications, and generalized audit software systems.

4321 Accounting Information Systems (3) Prereq: ACCT 2021 and QBA 2100. Analysis of standard accounting systems; emphasis on EDP systems and internal control of accounting systems.

4421 Governmental and Institutional Accounting (3) Prereq: ACCT 2021. Accounting, budgeting, fiscal processes, and financial records of local, state, and federal governmental bodies and of private nonprofit institutions.

4501 Petroleum Accounting (3) Prereq: ACCT 3021 and 3121. Accounting for oil and gas exploration and production; accounting for oil and gas leases, exploration costs, undeveloped properties, drilling and development operations, production, and oil and gas revenues.

5001 Financial Accounting for Management (3) Primarily for M.B.A. students; not open to accounting majors. Composition of financial statements; information processing and reporting for the purpose of understanding accounting information; legal and ethical obligations of the accounting profession.
7021 Advanced Theory of Accounts (3) Prereq: ACCT 3023 and consent of instructor; or ACCT 4022.

7023 Development of Accounting Thought and Practice (3) Prereq: consent of instructor. Historical roots of modern accounting; organizations and individuals who shaped its development, past and present research, and trends for the future.

7070 Contemporary Accounting Thought (3) Prereq: ACCT 7021.

7071 Current Topics in Financial Accounting (3) Prereq: ACCT 7021. May be taken twice for credit. Theoretical analysis of recent accounting pronouncement and current literature in accounting.

7072 Research Methodology in Accounting (3) Prereq: QBA 7024 and 7025; or equivalent. Research methodologies in accounting and tax research.

7101 Accounting for Managerial Decision Making (3) Prereq: ACCT 5001 or equivalent. Primarily for M.B.A. students: not open to accounting majors. Cost accounting and financial control systems; emphasis on assumptions underlying cost data used in decision making and control.

7122 Budgeting, Cost Analysis, and Control (3) Prereq: ACCT 3121. For accounting majors only.

7132 Behavioral Impact of Accounting Information (3) Prereq: ACCT 3121 or 7101. Effect of accounting data on users; emphasis on behavioral research methodology.

7170 Advanced Accounting Analysis for Decision Making (3) Accounting majors with credit for ACCT 3121 should take 7122.

7222 Auditing Theory and Standards (3) Prereq: ACCT 3222.

7250 Current Topics in Federal Income Taxation (3) Prereq: ACCT 3221 or equivalent. May be taken twice for credit. Tax research and planning in current major interest areas of tax law.

7251 Federal Income Taxation of Partners and Partnerships (3) Prereq: ACCT 3221 or equivalent. Analysis of tax problems in the organization and operation of partnerships; partnership distributions; withdrawal of a partner during his or her lifetime; death of a partner; dissolution of the partnership; sales or exchanges of partnership interests; limited partnerships; special problems of family partnerships.

7252 Seminar in Taxation of Corporations and Shareholders (3) Prereq: ACCT 3221 or equivalent. Advanced analysis of tax treatment, tax problems, and tax planning techniques involving transactions between corporations and their shareholders; transfer to a corporation; capital structure; dividends and other distributions; stock redemptions and liquidations; stock dividends and preferred stock bailouts; elections under subchapter S; special problems of professional corporations.


7254 Tax Research and Policy (3) Prereq: ACCT 3221 or equivalent. Locating and assessing federal income tax authority; communicating tax research findings; tax policy including indexing for inflation, business-pleasure combination, and personal deductions and exclusions.

7255 Fundamentals of Federal Income Tax (3) Prereq: ACCT 3221 or equivalent. Relationship among statutes, case law, congressional committee reports, and administrative pronouncements.

7256 Internal Revenue Service Practice and Procedure (3) Prereq: ACCT 7254 or equivalent. Practices and procedures of the Internal Revenue Service; client representation.

7257 Income Taxation of Estates and Trusts (3) Prereq: ACCT 7255 or equivalent. Transactional approach to income taxation of estates and trusts; emphasis on tax planning; irrevocable trusts, grantor trusts, special beneficiary trusts, and special asset trusts.

7270 Statement and Report Presentation and Analysis (3) For accounting and finance majors only.

7301 Financial Information Systems (3) Prereq: basic knowledge of computers and programming (may be obtained concurrently with course enrollment). Same as ACCT 7371.

7371 Financial Information Systems (3) Same as ACCT 7301; primarily for Ph.D. candidates.

7400 Accounting Research Forum (1) May be repeated for credit. Full-time, resident graduate accounting majors must register for this course each semester. Not for degree credit for accounting majors. Pass-fail grading. Research methodology, reports, and discussion of topics of current interest in accounting.

7422 Managerial Accounting for Government Agencies (3) Prereq: ACCT 2001, 2101, and 4421. Internal budgeting and reporting systems; types of budgets; cost centers; techniques for measurement, comparison, and data collection for government agencies.

7425 Seminar in Advanced Accounting Problems (3) Seminar in Accounting Policy (3) Prereq: ACCT 7021 or equivalent. For accounting majors (M.S. degree) only; to be taken near end of course work. Accounting policy issues including international accounting, ethical considerations, and business policy implications of accounting standards.

7554 Seminar in Oil and Gas Taxation (3) Prereq: ACCT 3221 or equivalent; and ACCT 4501. Principles of oil and gas taxation; includes the property unit, conveyances, depletion, IDC, unitization agreements, and the windfall profit tax; tax planning and Louisiana law.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Predissertation Research (1-9) May be repeated for credit.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

**ADMINISTRATIVE AND FOUNDATIONAL SERVICES (EDAF)**

**GENERAL COURSES**

5850 Special Topics in Education (1-3) V Prereq: consent of instructor. May be repeated for credit for a max. of 9 sem. hrs. Direction and assistance for the practitioner in solving special problems in the school organization.

7811 Seminar in Current Trends in Education (3) S Open only to students who have completed qualifying examination for the doctoral degree. Current issues and trends; sources, bibliography, and research in the student's major.

7900 Independent Study (1-6) May be repeated for credit for a max. of 12 sem. hrs. Open to advanced graduate stu-
COUNSELER EDUCATION

4360 Foundations, Functions, and Administration of Counseling and Guidance Services (3) V Multidisciplinary foundations of guidance; major guidance functions; administration of guidance programs.

4361 Counseling Children (3) F Introduction to methods and procedures.

4364 Student Affairs in Higher Education (3) V Basic concepts and issues in the college student affairs field.

4365 Basic Course in Interpersonal Communication (3) F,S,Su 2 hrs. lecture; 2 hrs. lab. For teachers and prospective counselors.

4600 Counseling for Disabling Conditions (3) V Etiology, acute phase, and chronic state of disability; emphasis on teamwork among physicians, teachers, counselors, and paramedical specialists.

4601 Management of Counseling Services (3) Su Case and program management procedures for client rehabilitation.

5300 Special Problems in Guidance and Counseling (3) V Prereq: consent of instructor. 1 hr. lecture; 4 hrs. lab. May be taken 3 times for credit when topics vary.

7301 Orientation to the World of Work (3) V Prereq: EDAF 7332. Also offered as VED 7301. For elementary school counselors. Basic concepts underlying orientation, awareness, and exploration phases of the career development process.

7302 Group Dynamics and Techniques in the Elementary Schools (3) V Prereq: EDAF 4361 and 4365. For elementary school counselors. Dynamics of small group behavior; emphasis on classroom consultation and demonstration procedures.

7330 Group Techniques and Dynamics in Counseling (3) S

7331 Counseling Theory and Techniques (3) F Prereq: EDAF 4365 and either EDAF 4360 or 4361, or 4601.

7332 Educational and Occupational Information (3) V See VED 7332.

7333 Analysis of the Individual (3) F

7334 Vocational Counseling (3) V Prereq: EDAF 7332 or equivalent. Also offered as VED 7334. Materials and techniques in vocational counseling of adolescents and adults.

7360 Counseling Practicum in Elementary Schools (3-6) F,S Prereq: consent of instructor. 2 hrs. conf.; 6-18 hrs. lab in work setting. Supervised experience in elementary schools.

7362 Counseling Practicum in the Secondary Schools (3-6) F,S Prereq: consent of instructor. 2 hrs. conf.; 6-18 hrs. lab in work setting. Supervised experience in secondary schools.

7364 Counseling Practicum in Special Settings (3-6) F,S Prereq: consent of instructor. 2 hrs. conf.; 6-18 hrs. lab in a work setting. Supervised experience in special settings (e.g., employment service, rehabilitation agency, mental health center, hospital, counseling center).

7365 Seminar in Counseling (3) Prereq: EDAF 4365 and 7331; or equivalent. May be taken twice for credit if content varies. Consultation with professor and peers regarding problems encountered in implementing counseling services.

7390 Advanced Counseling Theory and Techniques (3) S Prereq: EDAF 7331 or equivalent. Theoretical approaches to individual counseling.

7392 Advanced Vocational Counseling (3) V Prereq: EDAF 7334 or equivalent. Also offered as VED 7392. Life career planning through vocational assessment and counseling; vocational counseling theory, research, and practice.

7394 Advanced Group Counseling (3) S Prereq: EDAF 7330 or equivalent. Small group counseling approaches.

7395 Family Counseling (3) F Prereq: consent of instructor. Theory and practice of family therapy, including family dynamics and the role of the counselor.

7396 Advanced Family Counseling (3) S Prereq: EDAF 7395 or equivalent. Practice in assessing family dynamics; supervised experience in developing and implementing therapeutic interventions.

7397 Special Topics in Counseling (3) V Prereq: consent of instructor. 1 hr. lecture; 4 hrs. lab. May be taken twice for credit when topics vary.

7398 Field Experiences in Vocational Counseling (3) F,S,Su Prereq: EDAF 7332 and 7334. 1 hr. lecture; 4 hrs. lab. May be taken twice for credit. Also offered as VED 7398.

7399 Supervised Counseling Internship (4) F,S,Su Prereq: consent of instructor. 1 hr. conf.; 18 hrs. lab. May be taken twice for credit.

EDUCATIONAL ADMINISTRATION

4400 Introduction to Educational Administration (3) F,S,Su Organization of the American educational enterprise; economic, political, social, and cultural forces which affect the administration of American education.

7400 Problems of Educational Finance (3) F,Su Financing public elementary and secondary schools in terms of federal, state, and local sources of revenue, tax structures, budget preparation, and cost analysis.

7401 Administration of School Personnel (3) S,Su Role of the school administrator in personnel planning, staff development, and employee relationships.

7402 Organizational Research in Educational Administration (3) Prereq: EDAF 4400 and consent of instructor. Primarily for doctoral students in educational administration. Research, bibliography, and source materials; critical examination of organizational research studies.

7403 The Principalship in Elementary and Secondary Schools (3) F,S,Su Prereq: EDAF 4400 or equivalent. Duties and responsibilities of the principal for organization, administration, and supervision of elementary and secondary schools.

7404 Internship in Educational Administration (3-6) F,S,Su Prereq: consent of instructor. May be repeated for a max. of 6 sem. hrs. credit. For advanced graduate students qualified for internship in educational administration. Pass-fail grading.

7405 Individual Problem Investigation in Organization and Administration of Education (3) F,S,Su Prereq: consent of instructor. May be taken twice for credit when problems vary. For advanced graduate students qualified to undertake problem investigation in education.
EDUCATIONAL MEDIA

3500 Utilization of Instructional Materials (3) F,S,SU Open only to candidates for teacher certification. Basic techniques for preparing effective instructional materials.

3552 Cataloging and Classification (3) F,S Basic principles of acquisition, organization, cataloging and classification, processing, and circulation of book and nonbook materials; the Dewey Decimal Classification, Sears Subject Headings and AACR II.

3553 Administration of School Media Centers (3) S Role of the school media center as related to the curriculum; philosophy and objectives; services to students and faculty; standards and procedures for selection of all media.

3554 Libraries and Librarianship (3) F,S Libraries and librarianship; origin, services, importance in contemporary social order, and present-day professional library problems.

3555 Libraries as Information Centers (3) F Basic bibliographic reference sources; their selection, evaluation, and use in school media centers; community and special services.

4501 Selection and Utilization of Educational Media (3) Introduction to instructional technology; characteristics of media, objective specifications, and evaluation of instructional modules and systems.

4507 Computer Technology in Education (3) Applications of computers in instruction; educational data processing, computer-assisted and computer-managed instruction; information storage and retrieval; use of micro/minicomputers.

5505 Production of Instructional Materials (3) Instructional graphics production techniques; principles of visual design and instructional message design.

5506 Utilization of Mass Media in Education (3) Organization and utilization of mass media (newspaper, radio, television) in the school curricula and educational programs; critical viewing skills and application of mass media to teaching.

7240 Critical Analysis of Current Research in Educational Media (3) F,S, Su Prereq: EDAF 4501 or equivalent. Analysis of current literature in the field; evaluation of current and needed research; systems approach to solving instructional problems.

7420 Administering Educational Media Programs (3) F,S,Su Prereq: EDAF 4501 or equivalent; and consent of instructor. Primarily for personnel administering media centers. Budget preparation, purchase of equipment and materials, in-service training, program evaluation.


7503 Instructional Design and Development (3) S,Su Prereq: EDAF 4501. Application of principles of instructional systems to teaching and learning problems.

7504 Photography in Education (3) S,Su Prereq: EDAF 4501. Techniques of production utilization; evaluation of educational motion pictures; preparation of still photography materials.

7505 Designing Instructional Units Using Computers (3) Prereq: EDAF 4507 and 7503; or equivalent. Instructional design for computer-assisted instruction; emphasis on learning theory, events of instruction, structuring instructional sequences for maximum content retention.

7509 Authoring Systems for Educators (3) Prereq: EDAF 4507 and 7505; or equivalent. 2 hrs. lecture; 2 hrs. lab. Authoring systems, with emphasis on SuperPILOT and LOGO for individualized learning; system variables, transfer and
portability parameters, student involvement, alternative systems, and formative and summative evaluation procedures.

7512 Principles and Design of Educational Television (3)
Prereq: EDAF 7502. Design, distribution, and application of educational television to learning and training; ETV distribution systems; teacher’s guides; research on ETV program design variables; management and design of an ETV facility and distribution system.

7514 Designing Photographic Messages (3) Prereq: EDAF 7504. Design of slide/tape programs, multi-image productions, photo-modification, and computer-generated slide graphics for education.

7516 Practicum in Educational Media (3-6) Prereq: EDAF 5505, 7540, and 7420; or consent of instructor. 9-18 hrs. lab. Practical experience in teaching, producing, utilizing, and administering educational media.

7517 Seminar in Educational Media (3) Prereq: EDAF 7240 and 7420; or consent of instructor. Advanced topics in instructional technology.

7520 Educational Technology in Business, Industry, and Government Agencies (3) Prereq: EDAF 7503 and one of the following: EDAF 5505, 7502, 7504. Techniques used to meet training and development needs in business, industry, and governmental agencies.

7550 Theory and Research in Educational Technology (3) Prereq: EDAF 7240 and 7503. For advanced graduate students. Theoretical foundations and research in educational technology; emphasis on theories of communication, learning theories, educational psychology, and behavioral sciences.

7791 Educational System Analysis (3) V Prereq: completion of 3 sem. hrs. in educational administration or equivalent. Same as EDCI 7791. Basic techniques for designing instructional systems; emphasis on instructional objectives; design and selection of instructional alternatives; and evaluation of instructional systems.

EDUCATIONAL RESEARCH

3200 Evaluation of Instruction (2) F,S,Su Prereq: credit or registration in a methods course appropriate to the student’s teaching level or major or minor. Principles and techniques in development, administration, scoring, and evaluation of classroom and standardized tests.

4006 Applied Statistics in Education (3) Su Credit will be given for only one of the following: EDAF/EXST 4006; EXST 4001, 4011. Same as EXST 4006.

4200 Measurement and Evaluation of Student Achievement (3) F,S,Su Basic theory of educational measurement; principles of achievement; test construction including criterion-referenced measures; problems of measurement in subcultures; and principles of evaluation.

4249 Understanding and Applying Research in Education (3) F,S,Su For the specialist or non-thesis master’s degree student. Instructing teachers and administrators to become intelligent consumers of research.

7006 Statistical Principles—I (4) F 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EDAF/EXST 7006; EXST 7003, 7004, 7005. Primarily for Ph.D. students. Same as EXST 7006.

7016 Statistical Principles—II (4) S Prereq: EDAF/EXST 7006 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EDAF/EXST 7016; EXST 7013, 7014, 7015. Same as EXST 7016.

7201 Theory of Educational Measurement (3) F Prereq: EDAF 4200. Principles of psychometric theory as applied in the educational setting; classical measurement theory and recent psychometric techniques such as item-response theory and criterion-referenced measurement.

7202 Seminar in Educational Measurement (3) S Prereq: EDAF 7006 and 7201. Basic theories and problems in educational measurement.

7220 Education Program Evaluation (3) F Prereq: EDAF 4249 and 7006; or equivalent. Current models and issues in educational evaluation as a professional practice; design and development of a comprehensive evaluation plan which includes specification of theoretical framework, problem identification, data collection/analysis procedures, report writing format, and dissemination plans.

7221 Performance Evaluation in Education (3) S Prereq: EDAF 4240 and 4249; or equivalent. Current procedures and research concerning performance evaluation of students, teachers, and administrators; methodological, professional, and legal issues.

7241 Educational Research (3) F,S,Su Prereq: prior completion of or concurrent enrollment in EDAF 7006. Primarily for beginning doctoral students. Methods of research in education.

7242 Experimental Designs in Education (3) S Prereq: EDAF 7241 or equivalent. Statistical techniques and experimental designs most appropriate for solving specific problems; emphasis on multivariate analysis, multiple regression, and factor analysis.

7243 Qualitative Methods in Educational Research (4) S Prereq: EDAF 7241. 3 hrs. lecture; 2 hrs. lab. Qualitative methodology; quasi-ethnographic and ecological research; analysis of representative studies. Lab and fieldwork: participant and non-participant observation; interviewing data collection; content analysis.

7248 Research Practicum (3) V By arrangement with a local school system or other educational agency, students assist in the conduct of research under the supervision of the major professor and the cooperating agency.

7290 Seminar: Educational Research Methodology (1-3) May be repeated for a max. of 9 sem. hrs. of credit when topics vary. Advanced topics in educational research methods.

AEROSPACE STUDIES (ASST)

1001, 1002 The Air Force Today (1,1) F,S 1 hr. lecture; 1 hr. leadership lab. Air Force customs and courtesies, officerhood, mission, organization, and current aerospace systems of Air Force units; strategic offensive and defensive, general purpose, and aerospace support forces.

2001, 2002 Development of Air Power (2,2) F,S 1 hr. lecture; 1 hr. leadership lab. Factors contributing to change in the nature of military conflict; development of air power from its earliest beginnings through two world wars and subsequent conflicts; evolution of air power concepts; role of technology in the growth of air power; history of national objectives.

3001, 3002 Air Force Management and Leadership (3,3) F,S 3 hrs. lecture; 1 hr. leadership lab. Skills required by the successful leader; individual motivational and behavioral processes; leadership, communication, and group dynamics; use of analytical aids in planning and organizing; ethics, management of change, organizational power, politics, and managerial strategy.
AGRICULTURAL ECONOMICS (AGEC)

1098 Studies in the Operation of Agricultural Business (3) F Organization, management, and operation of agricultural businesses.

2075 Introductory Agricultural Economics (3) F,S Role of agriculture in the general economy; economic principles applied to agricultural production, marketing, consumption, and policy problems.

2077 Principles of Agricultural Marketing (3) S Agribusiness marketing channels, institutions, costs, problems, agencies, policies.

4001 Farm Records and Accounts (3) F 2 hrs. lecture; 2 hrs. lab. Accounting procedures for farm inventories, single- and double-entry classified farm cash accounts, single enterprise accounts, double-entry enterprise accounting (farm cost accounting); use of records in managing a farm business; federal income tax reporting for farmers.

4015 Farm Management Principles (3) F,S Fundamental economic and business principles applied to organization and operation of the farm business.

4016 Farm Organization and Management (4) S 2 hrs. lecture; 4 hrs. lab, including 6 hr. farm field trip. Intensive farm planning; case study of management on individual farms to maximize income.

4018 Agricultural Statistics (4) F 3 hrs. lecture; 2 hrs. lab. Statistical methods and techniques essential for economic analysis and interpretation of agricultural data.

4020 Cooperation in Agriculture (3) S Development, management, and related problems of cooperative agribusinesses.

4024 Agricultural Prices (3) S Methods of collection and analysis of price data, including relationships between agricultural and industrial prices.

4038 Problems and Decision Making in Agribusiness Firms (3) F For students planning careers in agricultural business. Identification, definition, and analysis of typical problems in agricultural business firms.

4051 Economics of Marketing Livestock, Meats, and Poultry Products (3) F Market structure and organization, pricing, trends, supply and demand, price and income elasticity, efficiency, and costs.

4052 Marketing Milk and Milk Products (3) S Market channels, characteristics, institutions, and government regulations involved in pricing and marketing of milk.

4053 Seminar in Tropical Agricultural Resource Development (1) S Economics of tropical agricultural development; opportunities for developing world trade; potentials for improving agricultural economies and standards of living in areas dependent on production of tropical agricultural products.

4060 Schedule Design and Interview Techniques (1) F Sources of data, questionnaire construction, and survey techniques.

4064 Design of Samples and Surveys (3) S-O Prereq: AGEC 4018 or equivalent. Sampling theory and methods; application to related fields in social sciences and agriculture.

4067 Farm and Rural Land Appraisal (2) S Fundamentals of farm appraisal; basic techniques for determining agricultural and rural land values; practice in appraising farms and rural lands representing major farming regions of Louisiana.

4077 Research Problems (3) Independent research culminating in an oral and written research report acceptable to a faculty committee.

4082 Agricultural Finance (3) S Capital and credit needs of farms and other agribusinesses; sources of funds, costs, terms, and risks involved in use of agricultural credit.

4084 The Economics of Resource, Rural, and Community Development (3) S Characteristics of underdeveloped areas; analysis of economic and related problems and potential for development; emphasis on southern states.

4088 Agricultural Policy, Farm Programs, and World Food-Population Problems (3) F Policies, legislation, and programs; world food-population balance, domestic and world food supplies, demand, prices, and related problems.

4092 Applied Programming Procedures in Agriculture (3) F-E Application of linear, dynamic, recursive, and other programming procedures to economic problems in agricultural production, marketing, and resource use.

4098 Agricultural Commodity Exchanges and Futures Trading (3) F Functions, institutions, economic performance, and procedures involved in utilizing futures trading to minimize price change risks in producing, processing, storing, buying, selling, and financing agricultural commodities.

7003 Research Methods in Agricultural Economics (3) S-E Scientific method and problem solving research; acquisition of reliable knowledge; research techniques for economic problems in agriculture.

7010, 7011, 7012 Seminar in Agricultural Economics (1,1,1) S Prereq: graduate major or minor in agricultural economics. 2 hrs. seminar, reports. Offered in rotation. Pass-fail grading. Current topics and research.

7016 Agricultural Production Economics (3) F Production principles applied to use of agricultural resources; analysis and interpretation of research data; theory of the farm firm, including costs, uncertainty, and expectations.

7018 Advanced Statistical Methods for Agriculture (3) S Application of advanced statistical tools, matrices, simultaneous equations, curve fitting, model construction, and linear and dynamic programming in relating and analyzing agricultural and economic data.

7020 Seminar in Marketing (3) F-O Basic and applied analytical procedures in marketing research, emphasizing quantitative methods; firm theory applied to marketing.

7028 Seminar in Agricultural Policies (3) V Development of agricultural policy; emphasis on objectives, procedures, accomplishments, and consequences.

7031 Land and Natural Resource Economics (3) F-E Land use planning; economic concepts and institutional factors relating to utilization of natural resources (land, water, forests,
space); emphasis on tenure, conservation, taxation, zoning, and agrarian adjustments.

Advanced Methods and Research Design (3) S-O Advanced research techniques in agricultural economics.

AGRICULTURAL EDUCATION (AGED)

4819 Special Topics in Agricultural Education (1-3) V May be repeated for a max. of 6 sem. hrs. credit. Individual and group study of selected topics under the direction of a faculty member.

7016 Foundations of Agricultural Education (3) S Events and organizations which contributed to the development of agricultural education.

7112 Program Development in Agricultural Education (3) F-E Development of curriculum; organization and use of advisory committees; organization of facilities; utilization of the FFA in instruction.

7213 Pedagogical Advances in Agricultural Education (3) Y Developments in education; their impact on agricultural education.

7218 Teacher Education (3) Su-O Development and functions of the comprehensive agricultural teacher education program.

7414 Andrology in Agricultural Education (3) S Principles and practices in conducting the adult education agricultural program.

AGRICULTURE (AGRI)

1001 Introduction to Agriculture (1) F,S,Su Opportunities and educational requirements in all fields of agriculture.

AGRONOMY (AGRO)

1021 Crop Science (3) F 2 hrs. lecture; 2 hrs. lab. An overview of the important crops of the world, their botany, and factors affecting their distribution.

2051 Soil Science (4) Prereq: CHEM 1002 and 1212 or equivalent. 3 hrs. lecture; 2 hrs. lab. Principles of soil science; properties of soils related to plant growth.

3000 Principles of Crop Production (3) F Prereq: BOTY 1002 or equivalent. Crop production practices relative to major crops grown in Louisiana and the U.S.; seeded preparation, planting, weed and pest control; harvest and processing practices related to each major crop group.

3011 Fall Crop Production Laboratory (1) F Prereq: credit or registration in AGRO 3000. 2 hrs. lab. Field and laboratory experiences designed to provide an understanding of the growth and practices involved in production of soybeans, cotton, and sugarcane.

3012 Spring Crop Production Laboratory (1) S Prereq: AGRO 3000. 2 hrs. lab. Field laboratory experiences designed to provide an understanding of the growth and practices involved in the production of winter small grains.

3013 Summer Crop Production Laboratory (1) Su Prereq: AGRO 3000. 2 hrs. lab. Field and laboratory experiences designed to provide an understanding of the growth and practices involved in the production of rice, corn, and sorghum.

3040 Soil Conservation (2) F Causes and effects of soil erosion and sedimentation; methods of reducing erosion, sedimentation, and runoff.

4005 Forage Crops and Pasture Management (4) F,S 3 hrs. lecture; 2 hrs. lab. Forage crops and their adaptation, production, establishment, utilization, and management in pastures.

4052 Soil Fertility and Soil Management (4) S Prereq: AGRO 2051. 3 hrs. lecture; 2 hrs. lab. Soil factors affecting crop growth; commercial fertilizers, lime, soil-improving crops; soil and tissue testing.

4055 Chemical Properties of Soil (4) F-E Prereq: AGRO 2051 and CHEM 2252. 3 hrs. lecture; 3 hrs. lab. Chemical and mineralogical properties of soils.

4056 Soil Microbiology (4) S Prereq: AGRO 2051 and MBIO 2051. 3 hrs. lecture; 3 hrs. lab. Also offered as MBIO 4156. Soil organic matter, its decomposition and associated microorganisms; oxidation-reduction processes; nitrogen fixation.

4058 Soil Morphology and Classification (4) F 2 hrs. lecture; 4 hrs. field study and mapping. Field service fee. Origin, profile development, composition, and classification of soils; soils of Louisiana and their utilization.

4063 Field-Plot Technique (4) 3 hrs. lecture; 2 hrs. lab. Also offered as EXST 4063. Planning, conducting, and interpreting field experiments.

4064 Principles of Plant Breeding (4) F Prereq: AGRI 2072 or equivalent. 3 hrs. lecture; 2 hrs. lab. Also offered as HORT 4064. Basic principles of breeding agronomic and horticultural crops; selection techniques in plant improvement.

4078 Land Use Planning and Land Management (3) F-E Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Land use planning and management based on chemical, mineralogical, and physical properties of soils; includes soils, plants,

8000 Thesis Research (1-12 per sem.) 'S'/'U' grading.

9000 Dissertation Research (1-12 per sem.) 'S'/'U' grading.

7612 Program Improvement in Agricultural Education (3) S-E Evaluation and analysis used in improving the five major components of vocational agriculture.

7716 Organization, Administration, and Supervision of Agricultural Education (3) Su-O Theory, principles, and practices of organization and supervision of vocational teaching.

7812 Technological Advances in Agricultural Education (3) Y Scientific developments in agriculture; their impact on programs in agricultural education.

8000 Thesis Research (1-12 per sem.) 'S'/'U' grading.

9000 Dissertation Research (1-12 per sem.) 'S'/'U' grading.

2072 Plant and Animal Genetics (3) F,S Prereq: 6 sem. hrs. of biology, botany, or zoology. Basic genetic principles underlying improvement of domestic animals and plants.
data bases, hydrology, and remote sensing; areas of use and management include crops, pasture, forest and woodland, metropolitan, transportation, waste disposal, wetlands, and disturbed lands.

4080 Advanced Crop Production and Management (3) F Prereq: AGRO 1021 and Boty 3060 or equivalent. Effect of cultural practices on physiological/ecological interactions affecting crop growth, development, and yield.

4086 Turfgrass Management (3) S BOTT 1001, AGRO 2051, or equivalent. 2 hrs. lecture; 3 hrs. lab. Also offered as HORT 4086. Turfgrass identification and adaptation; establishment and maintenance of high quality turf areas; turfgrass pests and their control.

4091 Special Topics in Crop Science (1-3) Prereq: written consent of instructor. May be repeated for credit; a total of 6 sem. hrs. may be earned in AGRO 4091 and 4092 combined.

4092 Special Topics in Soil Science (1-3) Prereq: written consent of instructor. May be repeated for credit; a total of 6 sem. hrs. may be earned in AGRO 4091 and 4092 combined.

7001 Agronomy Seminar (1) May be repeated for credit. 1 hr. seminar; reports.

7020 Application of Cyto genetics to the Improvement of Crop Plants (4) See HORT 7020.

7051 Macronutrients in Soils and Crops (4) F 3 hrs. lecture; 2 hrs. lab. Theory and current literature on the macronutrients; their influence on the growth of crop plants.

7052 Macronutrients in Soils and Crops (4) S 3 hrs. lecture; 2 hrs. lab. Theory and current literature on the micronutrients (boron, copper, zinc, manganese, iron, molybdenum, chlorine, cobalt) and their influence on growth of crop plants.

7053 Chemical Processes in the Environment (3) S Prereq: BCH 4001, MATH 1530 or equivalent. Environmental geochemistry, soil and surface chemistry of nutrients, trace elements and organic compounds in the environment.

7055 Advanced Soil Chemistry (3) F-O Prereq: AGRO 4055, MATH 1552, and one semester of physical chemistry. Theory of physio-chemical properties of soils; emphasis on soil solution chemistry.

7056 Advanced Soil Microbiology (2) F-O Prereq: AGRO 4056. Soil ecosystems analyses; microbiology of peats, root surfaces, and symbiotic nitrogen fixation.

7057 Advanced Soil Physics (4) F 3 hrs. lecture; 2 hrs. lab. Physio-chemical properties of soil colloids; soil structure, moisture, and aeration.

ANIMAL SCIENCE (ANSC)

1011 Introduction to Animal Science (3) F, S Science and production of beef cattle, sheep, swine, and horses; their role in American agriculture.

2001 Farm Unit Internship (1) F,S,Su Prereq: ANSC 1011 and consent of department head. 3 hrs. work experience. May be repeated for credit for a max. of 5 sem. hrs., one each in beef, horse, sheep, swine, and meat units. Pass-fail grading. Supervised work experience with animal behavior, vocational management skills, and livestock handling.

2098 Feeds and Feeding (3) F,S Prereq: consent of department head. 2 hrs. lecture; 2 hrs. lab. Not open to animal science majors. Basic principles of animal nutrition and their application in proper feeding of farm livestock.

2133 Growth and Development of Livestock (3) F 2 hrs. lecture; 2 hrs. lab. Cell, tissue, and body growth, development, and composition; patterns of tissue deposition in livestock; control and modification of normal and abnormal growth; evaluation and measurement—composition of beef, sheep, swine, and horses.

3033 Elements of Live Animal and Carcass Evaluation (3) F 1 hr. lecture; 4 hrs. lab. Basic principles and techniques involved in evaluation of meat animals and their carcasses.

3034 Advanced Live Animal and Carcass Evaluation (3) S Prereq: ANSC 3033; 1 hr. lecture; 4 hrs. lab.

3040 Classes and Grades of Livestock and Livestock Products (3) F 2 hrs. lecture; 2 hrs. lab. Practical phases of marketing; classifying, grading, preparing, and evaluating livestock and livestock products for market.
3051 Animal Science Problems (1-3) F,S,Su Prereq: consent of department head. May be repeated for credit for a max. of 3 sem. hrs. Directed individual study of a problem in feeding, breeding, management, or marketing of farm animals.

3053 Meats (3) F 2 hrs. lecture; 2 hrs. lab. Livestock and meat industry relationship; live animal and carcass comparison, slaughtering, processing, identification, and utilization of meat and meat products.

4009 Animal Nutrition (3) F Prereq: CHEM 2060 or equivalent. Basic principles of nutrition including chemical composition of feedstuffs, digestion, metabolism, and functions and values of nutrients.

4015 Physiology of Reproduction in Farm Animals (4) F 3 hrs. lecture; 2 hrs. lab. Anatomy and physiology of reproductive organs of beef cattle, sheep, swine, and horses; factors affecting reproductive performance.

4018 Principles of Animal Genetics (4) S Prereq: AGRI 2072 and EXST 4001; or equivalent. 3 hrs. lecture; 2 hrs. lab. Concepts of animal breeding and genetics as they relate to farm livestock.

4040 Quality Assurance in the Food Industry (4) S See DARY 4040.

4071 Tropical Livestock Husbandry (3) F See DARY 4071.

4081 Swine Production (3) S-E Prereq: ANSC 4009 and concurrent enrollment in DARY 4010 or equivalent. 2 hrs. lecture; 2 hrs. lab. Graduate credit will be allowed for only one of the following: ANSC 4081, 4086, or 4088. Management practices of swine; reproduction, nutrition, diseases and other aspects of production.

4084 Beef Cattle Production (3) S Prereq: DARY 4010 or equivalent. 2 hrs. lecture; 2 hrs. lab. Graduate credit will be allowed for only one of the following: ANSC 4081, 4086, or 4088. Practical work in feeding, care, and management practices in production of beef cattle; emphasis on production in the south.

4086 Sheep Production (3) S-O Prereq: ANSC 4009 and concurrent enrollment in DARY 4010 or equivalent. 2 hrs. lecture; 2 hrs. lab. Graduate credit will be allowed for only one of the following: 4081, 4086, or 4088. Theory and practice of management, breeding, and feeding of sheep for production under southern conditions.

4088 Horse Production (3) S Prereq: ANSC 1011; 2 hrs. lecture; 2 hrs. lab. Graduate credit will be allowed for only one of the following: ANSC 4081, 4086, or 4088. Theory and practice of managing horses; nutrition, reproduction, breeding, and production in the south.

4092 Animal Science Proseminar (1) F,S Nutrition, animal breeding and production, and meat processing and preservation.

4094 Meat Technology (3) S-E Prereq: ANSC 3053; and BCH 2083 or equivalent. 2 hrs. lecture; 2 hrs. lab.

7001 Experimental Methods (2) F Prereq: credit or registration in EXST 7004 or equivalent. Scientific methods applied to animal science.

7006 Advanced Animal Genetics (3) S-E Prereq: DARY 7004 or equivalent. Application of genetic principles and theory to farm livestock populations.

7030 Energy in Nutrition (3) F Prereq: credit or registration in BCH 4094. Energy-supplying nutrients and their metabolism; energy balance; measuring food energy needs; dietary density; energy restriction and related topics.

7035 Laboratory Evaluation of Vitamins and Minerals (4) Su-O Prereq: BCH 4094 or equivalent. 2 hrs. lecture; 4 hrs. lab. Chemical methods, techniques, and laboratory equipment for basic nutrition research.

7040 Advanced Swine and Horse Nutrition (3) S-E Prereq: DARY 4010 or equivalent. Applied nutrition as related to swine and horses.

7042 Advanced Beef and Sheep Nutrition (2) S-O Prereq: DARY 4010 or equivalent. Interpretation and application of nutritional knowledge in beef and sheep production.

7050 Advanced Animal Physiology and Laboratory Techniques (4) F-E Prereq: consent of instructor. 3 hrs. lecture. 2 hrs. lab. Physiological processes relating to domestic animal homeostasis and their interaction with production; current laboratory techniques.

7051 Advanced Physiology of Reproduction (3) S-O Prereq: ANSC 4015 or DARY 4044. Processes of reproduction in farm animals.

7052 Biotechnology of Gamete and Embryo Physiology and Micromanipulation (4) S Prereq: ANSC 4015 or equivalent. 3 hrs. lecture; 2 hrs. lab. Procedures for manipulation of mammalian gametes in vitro and general biotechnology techniques; emphasis on application to biological research.

7061 Research in Animal Science (1-6) F,S,Su Prereq: consent of department head. May be repeated for credit; max. credit of 6 hrs. for M.S. degree and 9 hrs. for Ph.D. degree. Research in animal nutrition, breeding, and production; physiology of reproduction; meat technology.

7075 Advanced Food Preservation (4) See FDSC 7075.

7093 Seminar (1) F,S May be taken 4 times for credit.

7094 Seminar in Nutrition (1) S Same as DARY 7094, FDSC 7094, HEC 7094, PLSC 7094. May be taken twice for credit.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

ANTHROPOLOGY (ANTH)

1001 Introduction to Physical Anthropology and Prehistory (3) Origin and evolution of people; evolution and its physiological bases; human prehistory; human diversity; origin and development of human culture through the rise of civilization.

1003 Introduction to Cultural and Social Anthropology (3) Diversity of human cultures; nature of culture, social organization, subsistence patterns, economics, law, politics, religion, language, and other institutions of culture viewed in cross-cultural perspective.

2015 Introduction to Archaeology (3) Archaeological goals, methods, techniques, and interpretations; particular prehis- toric cultural sequences or projects; relationship of archaeology with other social, life, and earth sciences.

2051 Introduction to World Ethnography (3) Sex roles, economic pursuits, values, beliefs, families, and other institutions of selected nonwestern peoples; implications for American culture.

2423 Introduction to Folklore (3) See ENGL 2423.

3004 Archaeology and the Bible (3) See REL 3004.

3015 The Archaeology of Ancient Greece (3) See GREK 3015.
3060 Introduction to Anthropological Linguistics (3) Cultural variation in language and its uses; problems of language classification and areal linguistics; practice in phonemic and morphemic analysis of nonwestern languages.

3078 Field Methods in Archaeology (3-6) Prereq: ANTH 2015 or equivalent. May be repeated for credit for a max. of 6 sem. hrs. Techniques of excavation, recording, laboratory analysis, and curation of archaeological material; participation in one or more archaeological excavations.

3401 The Study of Folklore (3) Also offered as ENGL 3401. History of the study of folklore; methods of collection, interpretation, and analysis of folklore materials; myth, folklore, legend, folksong, ballads, folk humor, festival, and folk speech; psychological, contextual, and structural analysis of oral literature; specific reference to the heritage of Louisiana and the South.

3909 Undergraduate Seminar in Anthropology (3) May be taken 3 times for credit when topics vary.

4003 Indian Civilization of Middle and South America (3) Ancient Maya, Aztec, and Inca civilizations; modern Indian groups in Latin America.

4004 The North American Indians (3) Origin, distribution, language, and culture of the aboriginal population.

4006 Museology and Museum Methods in Anthropology (3) Prereq: 3 sem. hrs. of introductory anthropology or equivalent. Fundamental concepts of museology and museum practices in anthropology; museum in history and ethics, exhibit development, collections management.

4010 Human Osteology (3) Prereq: ANTH 1001 and BIOL 1001, or equivalent; and consent of instructor. 2 hrs. lecture; 2 hrs. lab. Examination of the human skeleton including skeletal anatomy, bone growth, bone pathology, and forensic anthropology.

4015 North American Archaeology (3)

4016 Old World Archaeology (3) Cultural developments in prehistory ranging from the earliest evidence of humans to the foundations of civilization.

4017 Louisiana Archaeology (3) Prereq: ANTH 4015 or equivalent. Two overnight field trips. Archaeological data relative to the Indian cultures dating from the end of the Pleistocene period to the early historic era.

4018 Historical Archaeology (3) Prereq: ANTH 2015 or equivalent. Also offered as HIST 4151. Broad range of archaeological goals, methods, and interpretations unique to the study of the historic past; colonial and plantation archeology in the southeastern U.S.

4020 Method and Theory in Archaeology (3) Prereq: ANTH 1001 or 1003, and ANTH 2015; or equivalent. Empirical method and theory in archaeological research emphasizing the logic of scientific argument; history of American archaeology, survey of modern archaeological interpretations, types of explanation, logic of archaeological classification, and formation of research designs.

4023 Latin American Cultures (3) Spanish-American cultures in Latin America; their relationship to current societal changes.

4025 Peoples and Cultures of Europe (3) Ethnographic survey of the origins, distributions, languages, and cultures of traditional European peoples; problems of European transmigrants in the U.S.; concepts of culture area, peasantry, and ethnicity in the modern world.

4031 Comparative Religions (3) Also offered as REL 4031. Religious systems in different levels of sociocultural evolution.

4040 Physical Anthropology (3) Prereq: ANTH 1001; BIOL 1001, 1002; or ZOOL 1001, 1002. Human evolution, ecological adaptation, and genetic diversity.

4051 Africa (3) Races and cultures of Negroid Africa.

4053 Afro-American Cultures (3) Subcultures of Negroes in the new world; culture theory applied to origins, development, and present distinctiveness of these cultures.

4060 Language and Culture (3) Prereq: ANTH 3060 or ENGL 4010 or ENGL 4012 or COMD 2050 or equivalent. Relationships between various aspects of language and culture.

4064 Pidgin and Creole Languages (3) Prereq: ANTH 4060 or equivalent. Also offered as FREN 4064. Linguistic, sociolinguistic, and anthropological study of new languages which emerge in contact situations, particularly among peoples of different races and cultures; languages of the slave trade and European commercial expansion from the 15th through 18th centuries.

4081 Evolution of Man and Culture (3) Man’s biological and cultural evolution utilizing evidence from fossil records, archaeology, and ethnography.

4082 Social and Cultural Anthropology (3) For graduate students with little or no anthropology background. Culture, society, and language in primitive and complex settings.

4083 Quaternary Paleoecology (3) See GEOG 4083.

4085 History of Anthropological Theory (3) Major theories in all branches of anthropology; emphasis on cultural and social anthropology.

4086 Cultural Ecology (3) See GEOG 4086.

4090 Ethnographic Methodology (3) Theories and techniques of ethnography; emphasis on utilization of informants.

4440 Vernacular Architecture and Material Culture (3) Also offered as ARCH 4440. Subject matter and instructor may vary; additional details available from department. World vernacular architecture, including indigenous and folk buildings; other forms of material culture.

4475 American Folklore (3) See ENGL 4475.

4998 Independent Reading and Research in Anthropology (1-6) Prereq: written consent of instructor. May be repeated for credit. Total credit earned in ANTH 4998 and 7999 cannot exceed 9 sem. hrs. An honors course, ANTH 4999, is also available. Supervised reading or research selected by qualified advanced students.

4999 HONORS: Independent Reading and Research in Anthropology (1-6) Same as ANTH 4998, with special honors emphasis for qualified students.

7032 Comparative Studies in World Costume (3) See HEC 7032.

7901 Introduction to Graduate Study (1) Same as GEOG 7901. Techniques and methods of the profession for incoming graduate students.

7906 Nature of Culture (3)

7909 Selected Topics in Anthropology (3) May be taken 3 times for credit when topics vary.

7954 Anthropology of Complex Societies (3) Anthropological assumptions of theory and technique; problems generated by applying these assumptions to contemporary Africa, India, Latin America, and Anglo-America.

7962 Field Methods in Linguistics (3) Prereq: at least one upper-division or graduate linguistics course. 2 hrs. lecture:
ARCHITECTURE (ARCH)

1051 Introduction to Architecture (3) F The practice of architecture; development of the built environment; education of the architect; professional practice.

1153 Architectural Basic Design (3) F,S 6 hrs. lab. Also offered as ID 1153. Two-dimensional representation of three-dimensional forms; three-dimensional modeling.

1181 Introduction to Visual Communication—I (3) 6 hrs. lab. Studio hours supported by lectures and demonstrations. Development of primary skills in freehand drawing; perspective drawings; single-view three-dimensional drawings; orthographic drawings; and development of a visual vocabulary.

1182 Introduction to Visual Communication—II (3) S 6 hrs. lab. Studio hours supported by lectures and demonstrations. Development of primary skills in architectural drafting; perspective drawings; single-view three-dimensional drawings; orthographic drawings; and development of a visual vocabulary.

2041 Introduction to Design Process (3) F Design methodologies and theories.

2141 History of Architecture (3) F Efforts to shape the environment from its prehistoric beginnings through the medieval period.

2142 History of Architecture (3) S Prereq: ARCH 2141. Efforts to shape the environment from the Renaissance in Italy through the present.

2151 Introduction to Spatial Design (3) F Prereq: admission to professional program in interior design. 1 hr. lecture; 6 hrs. lab. Principles of spatial organization; individual and group projects used to develop spatial awareness through a series of problems.

2153, 2154 Architectural Design—I, II (6,6) 2153 offered F; 2154 offered S Prereq. for 2153: all required freshman courses in the architecture curriculum. ARCH 2153 is prerequisite for 2154, 12 hrs. studio. Beginning design problems in architecture; emphasis on organization of spaces, form, and processes; fundamental architectural thought and means of creating built form from abstract notions.

2171 Introduction to Building Structural Systems (3) F Prereq: PHYS 2001 and either MATH 1431 or 1441 or 1550. Building structural mechanics (statics and strength of materials); analysis of structural elements and systems; emphasis on the selection and understanding of types of walls, footings, and structural materials; system application.

2172 Introduction to Energy Systems (3) F Prereq: PHYS 2002 and either MATH 1431 or 1441 or 1550. Basic principles and terminology of the thermal, atmospheric, sonic, and luminous environments with regard to human comfort and architectural response.

2173 Automated Graphics for Designers (3) See EGR 2185.

2174 Introduction to Architectural Systems (3) S Prereq: consent of instructor for non-architecture majors. Building systems analysis and selection; use of compatible architectural recording, laboratory analysis, report preparation, and data analysis.

7999 Research in Anthropology (1-6) Prereq: written consent of instructor. May be repeated for credit. Total credit earned in ANTH 4998 and 7999 cannot exceed 9 sem. hrs. Individual supervision of advanced research and field work in anthropology.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.
3171 Mechanical Equipment of Buildings (3) F Prereq: ARCH 2172. Type, design, installation, and performance of mechanical equipment used in buildings, including plumbing and air conditioning.

3173 Architectural Acoustics and Illumination (4) S Prereq: ARCH 3171. Principles and practice of architectural acoustics and noise control; design of artificial and natural lighting systems; design of building electrical transmission systems.


3214 Architectural Synthesis (4) F Prereq: completion of all required fourth year course work or consent of school director. Individually prescribed advanced architectural study.

3216 Architectural Synthesis (6) F Prereq: completion of all required fourth year course work. Individually prescribed advanced architectural study.

3218 Architectural Synthesis (8) F Prereq: completion of all required fourth year course work or consent of school director. Individually prescribed advanced architectural study.

3221 Selected Topics in Architecture (3) V May be taken 3 times for credit with school approval. Studies in various subjects related to architecture.

3314 Architectural Synthesis (4) S Prereq: completion of all required fourth year course work or consent of school director. Individually prescribed advanced architectural study.

3316 Architectural Synthesis (6) S Prereq: completion of all required fourth year course work. Individually prescribed advanced architectural study.

3318 Architectural Synthesis (8) S Prereq: completion of all required fourth year course work or consent of school director. Individually prescribed advanced architectural study.

3353 Principles and Practices of Land Development (3) Prereq: ARCH 3162 or IE 3201 or equivalent. Environmental, physical, and financial aspects of land development; population growth; income and employment projections; regression and correlation of land values; land ownership and finance vehicles; direct and indirect infrastructure; budget and marketing structure; pro forma cash flow and rate of return analyses.

3442 Architecture in Louisiana Wetlands—(3) V Prereq: ARCH 3152 or LA 3153. Architecture related to problems and potentials unique to building in Louisiana wetlands, such as flooding, foundation problems, and problems of population density.

3453 Pattern Languages (3) V Prereq: junior standing. Definition and isolation of characteristics which make a building beautiful; incorporation of these characteristics in design at all scales, from the smallest building through the largest complex of buildings.

3456 Climate and House Design (3) V Climatic impact on the design of residential buildings.

3457 Hands on Materials (3) V Prereq: ARCH 2154. 6 hrs. lab. Design and physical manipulation, construction, and/or fabrication of devices or components made primarily (but not necessarily exclusively) of steel.

3462 Industrialization of Housing (3) V Industrialization of housing; its many attempts and failures; causes behind the great number of failures.

3472 Solar Heating and Cooling of Buildings (3) V Fundamental concepts of direct thermal application of solar energy in buildings; active components and systems, both air and water.

3473 Architectural Consequences of Construction Decisions (3) V Prereq: ARCH 2153, 2154, 2171, and 2174. Modern structural materials and construction methods applied to solution of practical problems; in-depth decision making in the area of building construction.

3474 Passive Solar Energy Applications for Buildings (3) V Prereq: ARCH 2172. Applications of passive solar systems for space heating and space cooling of buildings: system concepts, sizing methodology, design and construction considerations, and components.

3481 Architectural Contract Documents—I (Drawings) (3) V Prereq: ARCH 2154. 6 hrs. lab supported by lectures. Development of clear, concise construction documents; advanced production systems and interrelationships of drawings; composite drafting techniques and reproduction systems; reading and comprehending architectural working drawings; cross referencing and coordination of environmental control systems in construction documents; designing details to control environmental factors.

3482 Architectural Contract Documents—II (Specifications) (3) V Prereq: ARCH 2154. Organization and preparation of specifications required to form the basis of a construction contract between the owner and a building contractor.

4090 Restoration Studies (3) 3 hrs. lecture; 2 hrs. lab. Theory and methodology of architectural restoration; tools and techniques of restoration.

4145 Louisiana and Gulf Coastal Architecture (3) History and development of Louisiana and gulf coastal architecture from the 17th century to the present.

4440 Vernacular Architecture and Material Culture (3) See ANTH 4440.

4441 Aesthetics of Architecture (3) Prereq: consent of instructor. Development of aesthetic theory through architectural literature.

4700 Research Methods (3) Major research methods in architecture; hypothesis formulation and testing, data gathering and analysis.

7040 Structural Concepts and Forms (3) Relationship between the schematic properties of prototypical building forms and basic types of total system behavior.

7050 Project Planning/Management (3) Relationship of the construction process and project planning to building projects of various scales and complexities.

7070 Community Design Studies (3) Definition and application of community design processes; relationships between community elements and the design process; case study approach.


7600 Seminar in Architecture (3) May be repeated 3 times for credit when topics vary. Selected topics in architecture.

7900 Architectural Studies/Research (3) Prereq: written consent of School of Architecture Graduate Committee. Selected readings and/or research under the supervision of graduate faculty.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.
GENERAL COURSES

1001 Introduction to Fine Arts (3) Fundamental problems and concepts of art in the fields of design, sculpture, graphics, painting, and ceramics, as related to home, community, religion, commerce, and industry.

1011 Art Structure (3) 6 hrs. studio. Disciplines in art, with practice in the various media.

2050 Computer Art—I (3) Prereq: ART 1011 or equivalent. 2 hrs. lecture; 2 hrs. lab. Primarily for students majoring in art. Introduction to computer art.

2055 Computer Art—II (3) Prereq: ART 2050 or equivalent. 2 hrs. lecture; 2 hrs. lab. Primarily for students majoring in art. Continuation of ART 2050.

4050 Advanced Computer Art—I (3) Prereq: ART 2055 or equivalent and knowledge of a high-level programming language. 2 hrs. lecture; 2 hrs. lab. Primarily for students majoring in art. Advanced work in computer art.

4055 Advanced Computer Art—II (3) Prereq: ART 4050 or equivalent. 2 hrs. lecture; 2 hrs. lab. Primarily for students majoring in art. Continuation of ART 4050.

7041 Graduate Seminar—Three-Dimensional Art (1) May be taken 6 times for credit. Seminar with the three-dimensional art faculty for criticism and discussion.

7042 Graduate Seminar—Visiting Artist (1) May be taken 3 times for credit. Pass-fail grading. Seminar with visiting artist for criticism and discussions.

7420 Special Topics in Art History (3) Prereq: graduate standing in art or consent of instructor. May be taken twice for credit when topics vary. Advanced topics in art history.

8000 Thesis Research (1-12 per sem.) “S”/“U” grading.

PHOTOGRAPHY

2095 Basic Photography (3) 6 hrs. studio. Basic photographic concepts and techniques; practical and expressive application of photographic processes to visual arts.

2096 Intermediate Photography (3) Prereq: ART 2095. 6 hrs. studio. Combination of experimental darkroom lab techniques; continuing development of black and white photography, with emphasis on creative image orientation.

3094 Advanced Photography (3) Prereq: ART 2096. 6 hrs. studio. Technical investigation of contemporary hardware and materials; critical testing of equipment, films, and printing papers; emphasis on process control; aesthetic possibilities of photography.

3096 Color Transparencies (3) Prereq: ART 2095 or equivalent. 6 hrs. studio. Combination of experimental darkroom lab techniques; continuing development of color photography, with emphasis on creative image orientation.

4041 Special Studies in Photography (3 or 6) 6 or 12 hrs. studio. May be repeated for a max. of 6 sem. hrs. credit. Studio production of fine prints; independent individual creative research and problems in photography.

ART EDUCATION

2271, 2272 Art Education for Elementary Schools (3,3) ART 2271 is prerequisite for 2272. 2 hrs. lecture; 2 hrs. studio. Critical analysis and evaluation of past and present concepts of art education; developing a functional art program for elementary schools in Louisiana; art materials, techniques, and activities recommended for elementary school grades.

4241 Special Studies in Art Education (3) Research in areas directly related to the teaching of art.

4269, 4270 Art Education Workshop (3,3) Art as an integral part of the school curriculum; art activities and classroom procedures, materials, and techniques.

4273, 4274 Art Education in the Elementary and Secondary Schools (3,3) 3 hrs. seminar each. For students concentrating in art education. Developing a functional art program for elementary and secondary schools; philosophy of art education, curriculum construction, teaching methods, planning, and measuring the results of instruction.

7269 Foundations of Art Education (3) Prereq: graduate standing in art education or consent of instructor. Development of theory and philosophy leading to contemporary practices in art education.

7270 Current Practices in Art Education (3) Prereq: graduate standing in art education or consent of instructor. Contemporary trends and practices in art education; critical review of texts, journals, and other information sources.

7271, 7272 Development and Administration of an Art Education Curriculum (3,3)

PRINTMAKING

1361 Introduction to Intaglio (3) 6 hrs. studio. Basic intaglio techniques; work in black and white and color.

1371 Introduction to Lithography (3) 6 hrs. studio. Planographic printing from stones in black and white.

2362 Intermediate Intaglio (3, 6, or 9) Prereq: ART 1361. 6, 12, or 18 hrs. studio. May be repeated for credit for a max. of 9 sem. hrs. Advanced intaglio techniques.

2372 Intermediate Lithography (3, 6, or 9) Prereq: ART 1371. 6, 12, or 18 hrs. studio. May be repeated for credit for a max. of 9 sem. hrs. Planographic printing from stones and plates in black and white and color.

4361 Advanced Intaglio (3, 6, 9, or 12) Prereq: consent of instructor based on review of student’s portfolio. 6, 12, 18, or 24 hrs. studio. May be repeated for a max. of 12 sem. hrs. credit. Advanced intaglio techniques.

4366 Special Studies in Printmaking (3, 6, 9, or 12) Prereq: consent of instructor based on review of student’s portfolio. 6, 12, 18, or 24 hrs. studio. May be repeated for a max. of 12 sem. hrs. credit. Advanced work in a predetermined area of specialization.

4371 Advanced Lithography (3, 6, 9, or 12) Prereq: consent of instructor based on review of student’s portfolio. 6, 12, 18, or 24 hrs. studio. May be repeated for a max. of 12 sem. hrs. credit. Planographic printing from stones and plates; emphasis on color work.

7300 Graduate Printmaking (3, 6, 9, or 12) 6, 12, 18, or 24 hrs. studio. May be repeated for a max. of 36 sem. hrs. credit.

ART HISTORY

1440 Historical Survey of the Arts (3) Prehistoric, Near-Eastern, Greek, Roman, and medieval art.
1441 Historical Survey of the Arts (3) Renaissance to modern art.

2401 Art of the Ancient Near East and Egypt (3) Development of art and architecture in the ancient Near East and Egypt over three millennia; influences of one culture on another and subsequent contributions to Western art.

2411 Oriental Art (3) Asian art; the arts of China, India, and Japan in relation to religious and philosophical beliefs which affected their production.

2469 Italian Renaissance Art (3) Italian painting, sculpture, and architecture from 1250-1600; emphasis on Giotto, Masaccio, Donatello, Michelangelo, and Leonardo da Vinci.

2470 Survey of 20th-Century Art (3) Modern art.

4401 History of Prints (3) History of prints from the 15th century to the present.

4404 The Art of Rome (3) Development of architecture, sculpture, and painting from Rome’s early beginnings (600-200 B.C.) to the end of the 4th century.

4405 Early Christian and Byzantine Art (3) Painting, sculpture, and architecture of the Christian era through 12th-century Byzantium.

4406 Romanesque Art (3) Architecture, sculpture, manuscripts, and painting from the 9th through the 12th centuries in France, Germany, and England.

4409 Early Greek Art (3) Greek art to the time of the Persian Wars.

4410 Later Greek Art (3) Greek art from the time of Themistocles to the age of Augustus.

4412 Gothic Art (3) Architecture, sculpture, and painting of Northern Europe from 1150 to 1450.

4413 German and Netherlands Painting (3) Art of the Low Countries and Germany in the 15th and 16th centuries; emphasis on Limbourgs, van Eyck, van der Weyden, Bosch, Düer, Grünewald, Cranach, Altdorfer, and Bruegel.

4418 English Painting of the 18th and 19th Centuries (3) Painters of Great Britain in the 18th and 19th centuries; causes of specific tendencies in painting.

4420 Studies in Art History (3) May be taken twice for credit when topics vary. Advanced work in a predetermined area of specialization.

4421 History of Western Decorative Arts from the Renaissance to 1850 (3) Development of decorative arts design; emphasis on furniture, with investigations of metals, textiles, ceramics, and glass; materials, constructional techniques, and socioeconomic conditions giving rise to the objects’ fabrication.

4422 History of Modern Design (3) Aesthetic theory and stylistic evolution of decorative arts from mid-19th century to the present; emphasis on crafts, architectural decoration, furniture, interior design, and industrial design; Victorian period; arts and crafts movement, art nouveau, Bauhaus, and international style.

4423 Early Renaissance Painting in Italy (3) Italian painting of the 13th, 14th, and 15th centuries.

4424 High Renaissance and Mannerist Painting in Italy (3) Italian painting of the 16th century; emphasis on Leonardo da Vinci, Michelangelo, Raphael, Giorgione, and Titian.

4425 Renaissance Sculpture in Italy (3) Italian sculpture from 1250 to 1600; emphasis on Ghiberti, Donatello, Michelangelo, and Giambologna.

4427 Northern Baroque Art (3) 17th-century European art outside Italy, emphasizing Rubens, van Dyck, Rembrandt, Hals, Vermeer, Poussin, and Velázquez.

4429 Baroque in Italy (3) Art and architecture in Italy from 1600 to 1750.

4433 18th-Century European Art (3) Rococo, romanticism, and neoclassicism in 18th-century European art.

4437 History of European and American Sculpture, 1840 to Present (3) European and American sculpture from 1840 to the present.

4450 19th-Century European Painting (3) History of painting in European countries from the French Revolution (1789) to 1900; emphasis on neoclassicism, romanticism, realism, impressionism, post-impressionism, and symbolism.

4451 20th-Century European Painting (3) History of painting in European countries from the beginning of the century to the present; emphasis on fauvism, cubism, constructivism, surrealism and Dada, Italian futurism, German expressionism, minimal art, and the School of Paris.

4464 Early American Art to 1900 (3) North American painting, architecture, and sculpture from the colonial beginnings to 1900; emphasis on painting.

4465 American Painting, 1900-1950 (3) Emphasis on relationship of artists to the social and cultural developments in America as revealed through slides, photographs, newsreels, tapes, and museums.

4466 Contemporary American Art, 1950-Present (3) History of recent American art, especially painting, from abstract expressionism through contemporary realist movements in painting, sculpture, and mixed media.

4467 Latin American Art (3) Pre-Hispanic, colonial, and contemporary architecture, painting, sculpture, and related arts throughout Latin America.

4470 History of Photography (3) History of photography from its inception in the 1830’s until the present; technological development of the medium and its inherent aesthetics; inter-relationships between photography and more traditional media.

4490 Independent Study in Art History (1-3) Prereq: consent of instructor. May be repeated for a max. of 6 hrs. credit when topics vary.

7400 Art Theory and Criticism (3) Critics; building of art collections from ancient to modern times.

7441, 7442 Graduate Research Seminar in History of Art (3,3) Each course may be taken twice for credit with consent of instructor.

7490 Independent Study in Art History (1-3) Prereq: consent of instructor. May be repeated for a max. of 6 hrs. when topics vary.

GRAPHIC DESIGN

1551 Basic Design (3) 6 hrs. studio. Design as a basic problem-solving creative activity; project dealing with mechanical and communicative utility.

2544 Letterforms (3) Prereq: ART 1551. 6 hrs. studio. Drawn letterform studies; traditional and contemporary variations.

2552 Color Design (3) Color as a functional design element of perception and visual communication.

2554 Introduction to Graphic Design (3) 6 hrs. studio. Agency-studio procedures and techniques (thumbnail sketches, layout, and comprehensives); design problems, with
emphasize on letterforms commonly used in advertising/graphic design.

2555 Color in Lighting (3) 6 hrs. studio. Color effects of light on transparent, translucent, and opaque materials; color light mixing systems; display effects available through colored lighting.

2654 Basic Graphic Abstraction (3) Prereq: ART 1551 and 2552. 6 hrs. studio. Simplification of pictorial images as graphic elements.

3544 Typography (3) Prereq: ART 2544. 6 hrs. studio. Developing and understanding typographic skills through functional and aesthetic use of type.


3564 Illustration for the Graphic Designer (3) Prereq: ART 3554. 6 hrs. studio. Techniques of illustration; problems of layout and product illustration.

4514 Experimental Design (4) Prereq: consent of instructor based on review of student’s portfolio. 9 hrs. studio. Advanced experimental work in materials investigation, construction innovations, and test model performance evaluations.

4524 Production Techniques (3) Prereq: ART 3554. 6 hrs. studio. Basic studio and agency techniques related to reproduction problems in the field; typesetting methods and basic printing processes; paste-up techniques (keyline, blue-line, and mechanical overleys).

4534 Photo-Design Application (3) Prereq: ART 3554. 6 hrs. studio. Investigation of photography as an illustration technique through a series of experimental problems; its application to layout and product illustration.

4541 Special Studies in Graphic Design (3) Prereq: consent of instructor based on review of student’s portfolio. 6 hrs. studio. Advanced work in a predetermined area of specialization.

4544 Advanced Production Techniques (3) Prereq: ART 4524. 6 hrs. studio. Advanced techniques and practical experience with graphic arts equipment.

4551 Design (3) 6 hrs. studio. Problems in design related to the professional design field; methods of reproduction, exhibition techniques, and industrial and product design.

4552 Product Design (3) Prereq: consent of instructor. 6 hrs. studio. Technology, needs, and market related to the mass-produced article; materials research; human engineering; prototype construction; presentation methods; field trips.

4555 Advanced Graphic Design (3) Prereq: ART 3554. 6 hrs. studio. Principles of visual communication through graphic design; problems in design theory and application.

4556 Advanced Design (5) Prereq: 3 sem. hrs. in advanced design course work and consent of instructor based on review of student’s portfolio. 10 hrs. studio. Advanced studio work in a predetermined area of design specialization.

4557 Advanced Project in Graphic Design (5) Prereq: 3 sem. hrs. in advanced design course work and consent of instructor based on student’s portfolio evaluation. Advanced studio work in a predetermined area of design specialization.

4564 Senior Graphic Design (3) Prereq: ART 4555. 6 hrs. studio. Design projects investigating problems of visual communication; individual and group projects with professional-level presentations.

4574 Graphic Design Synthesis (5) Prereq: ART 4544. 10 hrs. studio. Degree project or internship approved by design faculty committee.

7551, 7552 Graduate Design (3,3) 6 hrs. studio each.

7553, 7554, 7555, 7556 Graduate Research in Design (3 each) Prereq: consent of instructor. 6 hrs. studio each.

CERAMICS

1661 Introduction to Ceramics (3) 6 hrs. studio. Studio problems in pottery, glazing, and kiln firing.

2661 Ceramics (3, 6, or 9) Prereq: ART 1661. 6, 12, or 18 hrs. studio. May be repeated for a max. of 9 sem. hrs. credit. Studio problems in ceramics; formulation of clay bodies and glazes; theories of kiln operation and maintenance.

3661 Intermediate Ceramics (3, 6, 9, or 12) Prereq: ART 2661 and completion of core courses in art. 6, 12, 18, or 24 hrs. studio. May be repeated for a max. of 12 sem. hrs. Open only to ceramics majors. Studio problems in contemporary concepts of ceramics.

4641 Special Studies in Ceramics (3, 6, or 9) Prereq: 6 sem. hrs. of credit in ART 4061. May be repeated for a max. of 12 sem. hrs. credit. Advanced studio work in predetermined area of specialization.

4661 Advanced Ceramics (3, 6, 9 or 12) Prereq: ART 3661 and/or approval of portfolio by ceramics faculty. 6, 12, 18, or 24 hrs. studio. May be repeated for a max. of 24 sem. hrs. credit. Studio problems in ceramics.

4671 Ceramic Sculpture (3, 6, 9, or 12) Prereq: ART 1762 and consent of instructor. 6, 12, 18, or 24 hrs. studio. May be repeated for a max. of 12 sem. hrs. credit. Clay as a medium for sculpture.

4691 Senior Project (3) Prereq: 12 sem. hrs. of credit in ART 4661. 6 hrs. studio. May be taken twice for credit. Proposal and execution of a ceramics project under the direction of a major professor.

7600 Graduate Ceramics (3, 6, 9, or 12) 6, 12, 18, or 24 hrs. studio. May be repeated for a max. of 36 sem. hrs. credit.

JEWELRY/METALSMITHING

2655 Basic Jewelry/Metalsmithing (3) 6 hrs. studio. Piercing, construction, cold connection, soldering, forming, and stone setting; studio problems in bronze, copper, and sterling silver.

2656 Jewelry/Metalsmithing: Casting (3) Prereq: ART 2655 or equivalent. 6 hrs. studio. May be taken twice for credit. Sand, cuttle bone, steam, vacuum, and centrifugal casting; studio work in bronze, sterling silver, and gold.

4651 Special Studies in Jewelry/Metalsmithing (3 or 6) Prereq: consent of instructor. 6 hrs. studio for each 3 sem. hrs. of credit. May be repeated for a max. of 6 sem. hrs. credit. Studio work in a predetermined area of specialization; emphasis on a single technique or material.

4655 Advanced Jewelry/Metalsmithing (3 or 6) Prereq: ART 2656 or equivalent. 6 hrs. studio for each 3 sem. hrs. of credit. May be repeated for a max. of 6 sem. hrs. credit. Advanced studio problems in forging, forming, reproduction processes, and construction techniques; emphasis on historical and contemporary jewelry/metal-smithing.

SCULPTURE

1761 Sculpture—I (3) 6 hrs. studio. Development of three-dimensional forms; various theories, methods, and materials.

1762 Sculpture—II (3) 6 hrs. studio. Studies in sculpture using appropriate materials and processes.
2761 Intermediate Sculpture (3, 6, or 9) Prereq: consent of instructor based on review of student’s portfolio. 6, 12, or 18 hrs. studio. May be repeated for a max. of 9 sem. hrs. credit. Assigned projects on figurative and nonfigurative sculpture, using various materials and methods.

4741 Special Studies in Sculpture (3) Prereq: consent of instructor based on review of student’s portfolio. 6 hrs. studio. Advanced studio work in predetermined area of specialization.

4761 Advanced Sculpture (3, 6, 9, or 12) Prereq: consent of instructor based on review of student’s portfolio. 6, 12, 18, or 24 hrs. studio. May be repeated for a max. of 15 sem. hrs. credit. Student projects with personal choice of concepts, materials, and methods.

4762 Senior Project (3) 6 hrs. studio. Proposal and execution of independent sculpture project under direction of major professor.

7700 Graduate Sculpture (3, 6, 9, or 12) 6, 12, 18, or 24 hrs. studio. May be repeated for a max. of 24 sem. hrs. credit.

PAINTING AND DRAWING

1847 Drawing and Composition (3) 6 hrs. studio. Basic principles of observation; emphasis on graphic analysis and delineation of spatial structure.

1848 Drawing and Composition (3) 6 hrs. studio. Studies from the live model; introduction of graphic representation, structure, and form.

1849 Introduction to Painting (3) 6 hrs. studio/lecture. Basic studio practice and theory in painting; traditional and modern materials and terminology; value and color experiences involving simple forms in space.

2879 Intermediate Drawing and Composition (3) Prereq: ART 1848. 6 hrs. studio. Imaginative composition utilizing the figure, still-life, and landscape forms.

2881 Painting (3) Prereq: ART 1847 and 1848. 6 hrs. studio. Studio problems in still-life directed toward conceptual attitudes; analysis of structure and color in composition; individual criticism, class discussion.

Astronomy (ASTR)

1101 The Solar System (3) Prereq: MATH 0092 or equivalent or an ACT mathematics score of at least 21. Credit will not be given for both this course and ASTR 1111, 1112. Fundamental principles of the solar system.

1102 Stellar Astronomy (3) Prereq: MATH 0092 or equivalent or an ACT mathematics score of at least 21. Credit will not be given for both this course and ASTR 1111, 1112. Fundamental principles of stellar astronomy.

1108 Astronomy Laboratory (1) 2 hrs. lab. Accompanies ASTR 1101; visual observations of positions of celestial bodies with application to star charts and globes; visual and photographic observations with 11½-inch refractor and 4-inch reflectors; principles of time determination and position determination.

1109 Astronomy Laboratory (1) 2 hrs. lab. Accompanies ASTR 1102; visual and photographic observations of sun, stars, and nebulae with 11½-inch refractor and 4-inch reflectors; analysis of light from terrestrial and celestial sources; interpretation of astronomical data.

1111, 1112 Introductory Astronomy (3,3) F,S Prereq: MATH 1021 and 1022; or MATH 1023; or eligibility for MATH 1550. ASTR 1111 is prerequisite for 1112. Credit will not be given for both these courses and ASTR 1101 and 1102. Principally for students in physical sciences or science education. Applications of physical principles to the study of the solar system (1111) and to stellar systems (1112).

2001 Current Topics in Astronomy and Astrophysics (3) S Prereq: ASTR 1101, 1102; or 1111, 1112. Primarily for non-science students. Topics of current interest in astronomy; recent topics include extraterrestrial intelligence, black holes, exploration of the solar system.

4221, 4222 Introductory Astrophysics (3,3) V Prereq: PHYS 1202 or 2102 or consent of instructor. ASTR 4221 is prerequisite for 4222. Sun, stars, and stellar systems; results and problems of modern astrophysical research.

4261 Modern Observational Techniques (3) V Prereq: ASTR 1111, 1112 and MATH 1552. 1 hr. lecture; 6 hrs. lab. Modern astronomical observations and reductions; the telescope, astronomical photography, spectroscopic and photometric observations and reductions.

4750 Special Topics in Observational Astronomy (3) V May be taken twice for credit when topics vary. One topic scheduled each time course is offered; current topics include astronomical spectroscopy and astronomical photometry.
Offered; current topics include stellar atmospheres, stellar interiors, binary stars, and high-energy astrophysics.

7750 Special Topics in Galactic Astronomy (3) V May be repeated for credit. One topic scheduled each time course is offered; current topics include the interstellar medium, stellar motions, galactic structure, and extragalactic astronomy.

7777 Seminar in Astronomy (1-6) V May be repeated for a max. of 6 sem. hrs. credit. Topics vary.

BASIC SCIENCES (BASC)

6001 Topics in Physical Science for Elementary School Teachers (3) Su only May be taken 3 times for credit when topics vary. Selected topics in physical science.

6002 Topics in Biological Science for Elementary School Teachers (3) Prereq: 8 sem. hrs. of introductory biology. May be taken 3 times for credit when topics vary.

BIOCHEMISTRY (BCH)

Laboratory Expenses: Students registering for laboratory courses in biochemistry must make indemnifying deposits of $25. Instructions and forms for making deposits will be provided at the first meeting of the laboratory. Students unable to show a receipt for their deposit by the end of the second class period will not be permitted to continue in the course.

Prerequisites: All prerequisites in biochemistry courses should be rigidly observed.

Corequisites: A student may not continue in a course if the corequisite course is dropped prior to the last day of the midsemester examination period.


2084 Elementary Biochemistry Laboratory (1) F,S Prereq: one semester of chemistry laboratory, CHEM 2060, and credit or registration in BCH 2083. 3 hrs. lab. Not for degree credit for students in the College of Basic Sciences. Deposit.

2155 Morphologic Hematology (3) F,S Prereq: ZOOL 1001 and 1002, 2 hrs. lecture; 3 hrs. lab. Also offered as MBIO 2155. Deposit. Cytology of normal and pathological human blood and marrow; blood grouping and blood coagulation.

2280 Introduction to Biochemical Research (1) V Prereq: 8 sem. hrs. of chemistry. Pass-fail grading. Current research problems actively pursued by biochemistry faculty.

2950 Research Internship (1) F,S,Su May be taken 4 times for credit. Introduction to research in biochemistry by association with a departmental research group.

3058 Quantitative Laboratory (3) F,S Prereq: CHEM 2251. 1 hr. lecture; 6 hrs. lab. Deposit. Quantitative analysis oriented toward biochemical and clinical determinations.

3999 Undergraduate Research (1-3) F,S,Su May be repeated for credit for a max. of 4 sem. hrs.; permission to receive more than a total of 4 sem. hrs. must be obtained from the department head. Individual reading, conference, and laboratory work on biochemical problems.

4001 Physical Chemistry (3) F Prereq: CHEM 2261, PHYS 2002, and MATH 1550. Theoretical chemistry; emphasis on solutions, equilibria, and topics of interest to students in agricultural and biological sciences.

4087 Basic Biochemistry (3) F,S Prereq: CHEM 2262. Credit will be given for only one of the following: BCH 4087 or 4093. Cellular macromolecules; production and utilization of energy by the cell; major metabolic pathways and their control.

4093, 4094 General Biochemistry I (3) F, II (3) S Prereq: CHEM 2262. Credit will not be given for both this course and BCH 4087. Principles of biochemistry; biochemistry of the genetic code; protein chemistry; enzymology; primary, secondary, and tertiary metabolites; energetics; cycles of intermediary metabolism; biosynthesis and biomembranes; chemical structure of amino acids, carbohydrates, lipids, and nucleic acids.

4385 Biochemistry Laboratory (3) F,S Prereq: credit or registration in BCH 4087 or 4093. 1 hr. lecture; 6 hrs. lab. Deposit. Modern and basic laboratory techniques in biochemistry including spectrophotometry, dialysis, chromatography, electrophoresis, centrifugation, radioisotopes, enzymology, and metabolic regulation.

4390 Information Retrieval in the Sciences (1) F,S Prereq: senior or graduate standing or consent of instructor. Modern methods of information retrieval from abstracts, scientific research literature, published computerized index programs, and key-word citation systems; proper techniques in data presentation.

4397 Biochemical Reaction Mechanisms (3) S Prereq: BCH 4093 and CHEM 2262. Basic concepts of biochemical reaction mechanisms.

4595 Physical Chemistry of Macromolecules (3) V Prereq: CHEM 2262 and 4492. Also offered as CHEM 4535. Theory and physical techniques appropriate for study of conformational and dilute solution properties of polypeptides, proteins, nucleic acids, polysaccharides, and synthetic polymers.

7010 Plant Molecular Biology (3) F Prereq: BOTY 3060, BCH 4093, 4094 or equivalent. See PLHL 7010 and BOTY 7010.

7163 Advanced Technology of Molecular Biology—Genetic Aspects (3) V Prereq: credit or registration in BCH 7280 or MBIO 7162. 1 hr. lecture; 6 hrs. lab. Same as MBIO 7163.

7164 Advanced Technology of Molecular Biology—Biochemical Aspects (3) V Prereq: credit or registration in BCH 7280 or MBIO 7162. 1 hr. lecture; 6 hrs. lab. Same as MBIO 7164. DNA cloning (between prokaryotes), mapping of restriction enzyme cutting sites, sequencing, heteroduplex, ul-
tracentrifugation, and gel electrophoresis; principles of genetics emphasized.

7280 Nucleic Acids (3) V Prereq: BCH 4094 or equivalent. Chemistry and biochemistry of nucleic acids; structure, expression, and regulation of genes in prokaryotic and eukaryotic organisms.

7281 Advanced Biochemistry (3) V Prereq: BCH 4094. Biochemical aspects of living cells; emphasis on metabolic systems and research techniques.

7282 Biochemical Regulation and Control (3) V Prereq: BCH 4094 or equivalent. Regulation of biochemical systems by levels of metabolites and enzymes, protein-protein interactions, actions of hormones and neuroendocrine systems, and metabolic systems.

7284 Proteins (3) V Prereq: CHEM 4491 or BCH 4001; and BCH 4093 or equivalent. Conformations of fibrous and globular proteins; their interactions with small and large molecules.

7285 Advanced Enzymology (3) S-O Prereq: one semester of physical chemistry and credit or registration in BCH 4094. Principles involving action of enzymes on a molecular level; includes kinetics, inhibition, pH effects, active site, coenzymes, reaction mechanism, and protein structure of enzymes.

7286 Seminar (1) F,S May be repeated for credit. Reports on topics of current interest in biochemistry.

7287 Special Topics in Biochemistry (1-3) V Prereq: BCH 4094 or equivalent. May be repeated for a max. of 8 sem. hrs. credit. Modern biochemistry topics of current interest.

**BIOLOGY (BIOL)**

1001 General Biology (3) F,S,Su For students not majoring in a biological science. BIOL 1001 and 1003 may not be taken by students who have had ZOOL 1001-1002 or BOTY 1001-1002. Zoology majors must take ZOOL 1001-1002. Basic principles of Biology; general concepts in cell biology, genetics, ecology and evolution.

1002 General Biology (3) F,S,Su Prereq: BIOL 1001. For students not majoring in a biological science. BIOL 1002 and 1004 may not be taken for credit by students who have had ZOOL 1001-1002 or BOTY 1001-1002. Basic principles of biology: diversity, interactions, and life histories of microorganisms, fungi, plants, and animals including the human.

1003 General Biology Laboratory (1) F,S,Su Prereq: credit or registration in BIOL 1001. 2 hrs. lab. corresponding to BIOL 1001. Credit not allowed for students who have had ZOOL 1001 or BOTY 1001.

1004 General Biology Laboratory (1) F,S,Su Prereq: BIOL 1001, BIOL 1003, and credit or registration in BIOL 1002. 2 hrs. lab. Laboratory corresponding to BIOL 1002. Credit not allowed for students who have had ZOOL 1002 or BOTY 1002.

**BIOLOGICAL AND AGRICULTURAL ENGINEERING (BAE)**

2307 Elements of Landscape Construction (3) F,S Prereq: MATH 1015 or 1022. 2 hrs. lecture; 3 hrs. lab. Theory and use of tape, level, transit, plane table, and compass; principles of area and volume calculations, land slope, drainage grades, legal land descriptions, and topographic mapping.

2350 Experimental Methods for Engineers (3) S Prereq: MATH 1552. 2 hrs. lecture; 3 hrs. lab. Introduction to statistical analysis, experimental methods, technical report writing, and instrumentation for engineering applications; measurement of temperature, pressure, flow, strain, and vibration in biological and agricultural products; microprocessor data loggers and computer data acquisition systems.

3104 Proseminar (1) F

3249, 3250 Engineering Practice (1-3, 1-3) Su only Prereq: consent of instructor. Pass-fail grading. A minimum of six weeks of full-time employment in an industry participating in the summer program. Same as ENGR 3049, 3050. Selected engineering problems in an industrial environment.

3278 Lipids and Membranes (3) V Prereq: BCH 4094. Chemistry and biochemistry of lipids and membranes; analytical methods for lipids; biosynthesis of complex lipids; organization and function of biological membranes.

7289 Biochemistry of Viruses (3) V Prereq: BCH 4094 or equivalent. Biochemistry and molecular biology of representative bacterial, animal, and plant viruses; virus attachment to and penetration of host cells; replication, transcription, and translation of viral genes; virion morphogenesis and assembly; virus-induced host cell modifications; emphasis on structure-function relationships.

7290 Complex Carbohydrates (3) V Prereq: BCH 4094. Chemistry of carbohydrates including stereochemistry, reactions, derivatization, and analysis; biosynthesis and functions of complex carbohydrates; structure and function of complex carbohydrates including polysaccharides, glycoproteins, and glycolipids; immunology and receptorology.

7946 Seminar: Current Topics in Molecular Evolution (1) See Zoology 7946.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Procedures and Problems in Biochemical Research (1-9) F,S,Su For predissertation research or for specific experience under the direction of a biochemistry faculty member. May be repeated for credit. Pass-fail grading. Experimental research methods, design and performance of experiments, and analysis and interpretation of data.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

3374 Soil and Water Resource Engineering (3) V Prereq: CE 1510 and 1550 and credit or registration in CE 2200. Engineering analysis and design of soil and water systems in agriculture.

3989 Special Projects in Agricultural Engineering (1-4) F,S,Su Prereq: consent of instructor. May be repeated for credit for a max. of 6 hrs. Library research, experimental and/or theoretical investigation, and written report in form of scientific manuscript.

4190 Senior Engineering Design (1) F Prereq: BAE 4393 or equivalent. Design project (to be completed in BAE 4292) selected and approved; completion of project feasibility study and outline of design project; topics include design philosophy, optimization, economics, product liability and reliability; use of standards and codes.

4292 Senior Engineering Design Laboratory (2) S Prereq: BAE 4190. 6 hrs. lab. Engineering principles used to complete the project set forth in the design outline submitted in BAE 4190; design project completion.
3493 Electrical Energy in Agricultural Systems (2) V
Prereq: EE 2950. 1 hr. lecture; 3 hrs. lab. Application of electrical energy to agricultural processes; design of farmstead and other energy systems including lighting, heating, electrical machines, and control circuits.

3491 Physical Properties of Biological Materials (3) V
Prereq: ME 2333 or 3333. 2 hrs. lecture; 3 hrs. lab. Physical properties, including rheology, friction, damage, texture, preservation, and design of storage structures to minimize deterioration.

3495 Thermal and Materials Processing (3) V
Prereq: ME 2333 or 3333. 2 hrs. lecture; 3 hrs. lab. Theoretical and practical considerations in processing biological materials; flow measurement, heat transfer, moisture, temperature, vapor pressure, relationship, drying, and material handling.

3496 Agricultural and Related Machinery Design (3) V
Prereq: credit or registration in CE 3405; ME 3133. 2 hrs. lecture; 3 hrs. lab. Philosophy of agricultural and light industrial machine design; cost analysis of machine use; machine design principles applied to soil working machines, hitching systems; machines for planting, granular applications, hay handling, and forestry.

3497 Off-Highway Vehicle Design (3) V
Prereq: ME 2333 or 3333; ME 3133. 2 hrs. lecture; 3 hrs. lab. Design of off-highway prime movers; engine characteristics and selection; engine accessories, power transmission, traction, vehicle dynamics, and human factors for operators.

3498 Principles of Food Engineering (3) V
Prereq: BAE 4305; ME 2333 or 3333. 2 hrs. lecture; 3 hrs. lab. Material and energy balance; refrigeration, heat and mass transfer, evaporation, and dehydration of foods.

3499 Environmental Engineering for Animals and Plants (3) V
Prereq: ME 2333 or 3333. Environmental factors and their modification for enhancing animal and plant growth; solar energy fundamentals; energy balances in the atmosphere; energy flow to earth; earth temperatures profiles and flux; ventilation systems for animal housing; heating systems for green houses.

4360 Mobile Fluid Power Control (3) F
Prereq: ME 2833 or equivalent. 2 hrs. lecture; 3 hrs. lab. Theory and design of hydraulic systems and basic components; power steering, hydrostatic transmissions, electrohydraulic servovalves, manual and automatic control applications.

4374 Irrigation and Drainage Engineering (3) V
Prereq: BAE 3374 or equivalent. Practical aspects of design and analysis of irrigation and drainage systems.

4380 Aquacultural Engineering (3) Prereq: consent of instructor. Engineering principles applied to aquacultural systems; emphasis on commercially important species, including crawfish, catfish, trout, and prawns.

7302 Environmental Engineering for Plants and Animals (3) V
Prereq: BAE 4354. Properties of the physical environment; conditioning necessary to provide a selected environment; physiological systems affected when altering the environment of biological materials.

7303 Engineering Phases of Crop Processing (3) V
Prereq: BAE 4305 or equivalent. Physical properties of agricultural crops; engineering principles applied to cutting, shearing, collecting, packaging, transporting, drying, handling, and storing agricultural products.

7304 Advanced Soil and Water Resource Engineering (3) V
Prereq: BAE 4374 or equivalent. Advanced topics in statistical hydrology, flow theory, drainage, irrigation, erosion, sediment transport, and sedimentation applied to agricultural fields and watersheds.

7305 Advanced Power and Machinery (3) V
Prereq: BAE 4306. Analysis of modern mechanical power sources; methods of measurement and analysis of power requirements; related theory of land locomotion.

7306 Agricultural Systems Engineering (3) V
Prereq: BAE 4292 or equivalent. Applications of systems approaches to engineering problems in agriculture; queueing theory; modeling and simulation; linear programming; decision support systems and expert systems.

7909 Agricultural Engineering Research (3) F, S, Su
8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

BOOKS AND LIBRARIES (BKLI)

1001 Library Research Methods and Materials (1) Fundamentals of library research; emphasis on individual student's major fields and interests.

BOTANY (BOTY)

3900 Undergraduate Botanical Research (1-4) Prereq: consent of instructor. May be repeated for credit for a max. of 8 sem. hrs.

4020 Taxonomy and Ecology of Aquatic Plants (3) 1 hr. lecture; 4 hrs. lab; extended field trips. Also offered as FISH 4020 and WILD 4020. Field service fee. Taxonomy, ecology, distribution, and economic significance of aquatic plants in Louisiana.

4024 Plant Anatomy (4) Prereq: introductory botany or biology course. 2 hrs. lecture; 4 hrs. lab. Structure and development of vascular plants; emphasis on seed plants.

4034 Morphology of Vascular Plants (4) Prereq: introductory botany or biology course. 2 hrs. lecture; 4 hrs. lab. Field service fee. Phylogenetic survey of plant form and develop-

1001, 1002 General Botany (4,4) 3 hrs. lecture; 2 hrs. lab. Credit will not be given for both these courses and BIOL 1001, 1002, 1003, 1004.

2015 Genetics and Society (3) Prereq: BIOL 1001 and 1002. Not a prerequisite for other genetics courses. For non-science majors. Also offered as ZOOL 2015. Genetics as it affects society; basic, human, and population genetics; testing for mutagenic and carcinogenic agents; genetic engineering; potential dangers and ethical problems.

2046 Plant Ecology (4) 2 hrs. lecture; 4 hrs. lab. Ecological principles pertaining to plant populations and communities and their environmental interactions.

2055 Flora of Louisiana (4) 2 hrs. lecture; 4 hrs. lab. 2 Saturday field trips. Field service fee. Major plant groups and communities of Louisiana; field identification, natural history, and ecology.

3060 Introductory Plant Physiology (4) See PLHL 3060.

3090 Cell Biology (3) Prereq: 11 sem. hrs. of biological science and one year of chemistry. Also offered as ZOOL 3090.

3900 Undergraduate Botanical Research (1-4) Prereq: consent of instructor. May be repeated for credit for a max. of 8 sem. hrs.
ment among vascular plants from ferns and related forms through gymnosperms and angiosperms.

4041 Plant Taxonomy (4) Prereq: introductory botany or biology course. 2 hrs. lecture; 4 hrs. lab. Field service fee. Principles of identification, classification, and nomenclature; their application to select groups of vascular plants.

4042 Projects in Plant Taxonomy (3) Prereq: BOTY 4041 or equivalent. 1 hr. conference; 4 hrs. lab. Individual instruction; student responsible for selecting a plant taxonomy project related to interests.

4052 Phycology (4) Prereq: one year of biological science. 2 hrs. lecture; 4 hrs. lab. Field service fee. Freshwater and marine algae, including morphology, biology, ecological role, and economic significance.

4054 Introductory Mycology (4) 3 hrs. lecture; 3 hrs. lab. Same as PLHL 4054. Field service fee. Developmental morphology, taxonomy, and adaptive strategies of fungi; interactions of fungi with plants and animals.

4056 Lichenology and Bryology (4) Prereq: one year of biological science. 2 hrs. lecture; 4 hrs. lab. Field service fee. Lichen and bryophyte morphology, physiology, ecology, and systematics; practice in identification.

4132 Eukaryotic Molecular Genetics (3) Prereq: ZOOL 2153; BCH 4094 recommended. Same as MBIO 4132 and ZOOL 4132.

4153 Principles of Ecology (4) See ZOOL 4153.

4172 Plant Microtechnique (3) Prereq: BOTY 4024 or equivalent. 1 hr. lecture; 4 hrs. lab. Technique and practice in making permanent slides.

4299 Genetics of the Evolutionary Process (3) Prereq: ZOOL 2153 or equivalent. Also offered as ZOOL 4299. Genetic mechanisms relevant to the process of evolution; mechanisms generating genetic variability and arrangement of that variability.

4308 Plants in Coastal Environments (3) See MRSC 4308.

4653 Marine Botany (4) Su only Prereq: 12 hrs. in biological science, including some botany. Four weeks at Gulf Coast Research Laboratory, Ocean Springs, Mississippi.

6055 Flora of Louisiana for Teachers (4) Prereq: one year of biological sciences. 2 hrs. lecture; 4 hrs. lab. Field service fee. Student projects are required. Identification and natural history of native vegetation and plant communities of Louisiana.

7010 Plant Molecular Biology (3) F Prereq: BOTY 3060, BCH 4093, 4094 or equivalent. See PLHL 7010 and BCH 7010.

7013 Coevolution (3) See ENTM 7013.

7025 Advanced Plant Anatomy (3) Prereq: BOTY 4024 or equivalent. Analysis of meristematic activity and growth patterns in vascular plants; basis and mechanisms of differentiation and experimental studies of normal growth processes.

7032 Advanced Mycology: Ascomycetes and Deuteromycetes (4) See PLHL 7032.

7043 Advanced Plant Taxonomy (4) Prereq: ZOOL 2153 or AGRI 2072, and BOTY 4041; or equivalent. 3 hrs. lecture; 3 hrs. lab. Fundamentals of natural variation and evolution; taxonomic features of plant variation.

7044 Agrostology (3) Prereq: BOTY 4041 or equivalent. 1 hr. lecture; 4 hrs. lab. Field service fee. Morphology, classification, identification, and economic importance of grasses and grasslike plants.

7053 Advanced Phycology (4) Prereq: BOTY 4052 or equivalent. 2 hrs. lecture; 4 hrs. lab. Field service fee. Ultrastructure and biochemistry of various groups of algae; includes economically important algae, algae as a source of protein, and algae and the environment.

7056 Advanced Mycology: Lower Fungi (4) Prereq: BOTY 4054 or equivalent. 3 hrs. lecture; 3 hrs. lab. Same as PLHL 7056. Taxonomy, biology, and ecology of flagellated fungi and zygomycetes; ultrastructural morphology, genetics, and pathogenicity; collection, isolation, and identification of fungi from a variety of substrates and habitats.

7061 Plant Growth and Development (3) See PLHL 7061.

7063 Plant Metabolism (3) See PLHL 7063.

7065 Transport Processes in Plants (3) Prereq: BOTY 3060. Also offered as PLHL 7065. Principles governing the transport of water, mineral nutrients, organic compounds and gases in plants; cellular through whole-plant levels of organization and physiological response.

7067 Selected Topics in Plant Physiology (2) Prereq: consent of instructor. May be repeated for credit. Same as PLHL 7067. Mineral nutrition, metabolism, growth and development, and herbicides.

7068 Current Literature in Plant Physiology (1) See PLHL 7068.

7082 Research Methods in Plant Ecology (3) Prereq: BOTY 2046 or equivalent. 2 hrs. lecture; 3 hrs. lab. Field service fee. Methods used in description and analysis of vegetation.

7083 Community Ecology (3) Prereq: ZOOL 4153 or equivalent. Also offered as ZOOL 7083. Ecological processes of communities; predation, competition, mutualism, disturbance, succession, island biogeography, and diversity.

7093 Plant Population Biology (3) Prereq: ZOOL 4153 or equivalent. Plant population dynamics, reproductive systems, life histories, competition, niche theory, and interactions between plants and predators, pathogens, and symbionts.

7111 Systematic Biology (4) Prereq: 8 sem. hrs. of 400 level botany or equivalent; introductory statistics recommended. 3 hrs. lecture; 2 hrs. lab. See ZOOL 7111. Theoretical and empirical aspects of systematics and evolutionary biology.

7250 Organelle Genetics (3) Prereq: BCH 4094 and ZOOL 2153; or equivalent. Organelle biogenesis, structure and packaging of organelle genomes, segregation and transmission patterns of organelle genes, mapping, and molecular mechanisms of transmission.

7500 Analytical and Quantitative Light Microscopy (3) Prereq: BOTY 3090, ZOOL 3090 or equivalent. Principles of optical methods used to analyze biological structure and function at the cellular and subcellular levels.

7701 Electron Microscopy (2) Same as GEOL 7701, ME 7701, MBIO 7701, and ZOOL 7701. Transmission and scanning electron microscopy; x-ray analysis of biological and nonbiological materials; theory, operation, and application of the instruments.

7702 Transmission Electron Microscopy Laboratory: Biological Materials (3) Prereq: credit or registration in BOTY 7701 or equivalent. 9 hrs. lab. Same as MBIO 7702 and ZOOL 7702. Preparation of biological specimens for transmission electron microscopy; use of the electron microscope.

7703 Scanning Electron Microscopy Laboratory: Biological Materials (2) Prereq: credit or registration in BOTY 7701 or equivalent. 6 hrs. lab. Same as MBIO 7703 and ZOOL 7703. Preparation of biological specimens for scanning electron microscopy; use of the S-500 SEM.
BUSINESS ADMINISTRATION (BADM)

0999 Career Planning and Placement (1) Suggested for second semester juniors. How to seek employment; job hunting involved with planning a career, exploring strengths, planning and preparing résumés and related letters, using résumés, preparing and conducting interviews, and psychological testing.

1001 Introduction to Business (3) May not be taken by students in the College of Business Administration. Operation of the business firm; function of the businessman; nature of economic system and private enterprise; orientation to collegiate business education.

3200 Records Management (3) Principles of records creation, retention, transfer, and disposal; organization and management of stored records; coding, microfilming, and retrieval of information; manual, mechanical, and computer means of storing and retrieving information.

3400 Office Management (3) Facilitating office work through management of environment, organization, communication, personnel, systems, productivity, and cost factors.

3600 Information Processing (3) Prereq: VED 2001. 3 hrs. lecture; 2 hrs. lab. Concepts of information processing; systems approach for improving efficiency of business communications; emphasis on information processing management and orientation to automatic typewriting/text-editing systems and dictating/transcribing equipment.

7270 Seminar in New Developments in Business Administration (3)

7800 Behavioral Sciences Applied to Business and Industry (3) Principles of human behavior: their relevance to motivation, effective communication, conflict resolution, decision making; the concept of change, and the meaning of work in an individual's life.


8000 Thesis Research (1-12 per sem.) ‘S’/‘U’ grading.

8900 Predissertation Research (1-9) May be repeated for credit.

9000 Dissertation Research (1-12 per sem.) ‘S’/‘U’ grading.

BUSINESS COMMUNICATION (BCOM)

2071 Business Communication (3) Prereq: ENGL 1002. Communication theory and its application to business; composing the basic forms of business communication, including correspondence and reports.

4200 Managerial Communication (3) Prereq: BCOM 2071. Theory and application of oral and written communication essential to the management process; relation of communication to management style, training, information processing, and other management functions.

5200 Executive Communication (3) Developing and applying communication strategies; analysis of business situations and development of appropriate strategies; written, oral, and interpersonal applications; impact of technologically mediated communication.

7260 Seminar in Business Communications (3) Role of communication in the business context; relationship of information and the effect of different communication formats on the functional areas of accounting, finance, management, and marketing.

BUSINESS EDUCATION (BUED)

2000 Beginning Typewriting (3) 2 hrs. lecture; 3 hrs. lab.

2001 Intermediate Typewriting (3) 2 hrs. lecture; 3 hrs. lab.

2100 Beginning Shorthand (3) 2 hrs. lecture; 3 hrs. lab. Basic principles of reading and writing shorthand; dictation of practiced material.

2101 Intermediate Shorthand (3) 2 hrs. lecture; 3 hrs. lab. Building dictation speed; shorthand principles.

2620 Practicum in Business and Office Education (2) One-hour weekly seminar with instructor to discuss topics relative to student's job. Actual office experience of at least 10 hrs. per week providing on-the-job training in a clerical, secretarial, or bookkeeping position.

2621 Practicum in Distributive Education (2) One-hour weekly seminar with instructor to discuss topics relative to student's job. Students work at least 10 hrs. per week in a selling position in an approved retail establishment.


3100 Advanced Shorthand (3) 2 hrs. lecture; 3 hrs. lab. Continuation of BUED 2101; emphasis on development of speed in dictation and transcription.
3500 Administrative Assistant Practicum (3) Prereq: BCOM 2071 and BUED 3000; senior standing required for students in the College of Business Administration. 2 hrs. lecture; 3 hrs. lab. Responsibilities of the administrative assistant.

4150 Teaching Cooperative Education (3) V Organization and administration of cooperative education programs in public secondary education; historical foundations; relevant federal legislation.

4252 Teaching Information Processing (3) V Prereq: BUED 2000 and 2001; EXST 2000. 2 hrs. lecture; 2 hrs. lab. Teaching basic concepts of information processing; use of microcomputers to process information and produce documents.

CHEMICAL ENGINEERING (CHE)

2070 Chemical Engineering Fundamentals for Biotechnology (3) Prereq: MATH 1550 and CHEM 1202. Not open to chemical engineering majors. Fundamental topics of chemical engineering; data manipulation, material balances, mass transfer, and kinetics.

2171 Chemical Engineering Fundamentals—Material and Energy Balances (3) F,S Prereq: MATH 1550 and CHEM 1202. Emphasis on basic principles and concepts used to make chemical engineering calculations; techniques used in these calculations applied to typical industrial problems.

2176 Mathematical Modeling of Chemical Engineering Systems (3) F,S Prereq: MATH 2065 and CSC 2260. Basic concepts and techniques in analysis of engineering processes; mathematical description of physical systems and application of modern computers to solution of resulting equations.

3172 Chemical Engineering Thermodynamics (3) F Prereq: CHE 2171 and credit or registration in CHEM 4491. Basic concepts and chemical-engineering applications of thermodynamics; emphasis on flow processes and real gas thermodynamics.

3173 Heterogeneous Equilibrium (3) S Prereq: CHE 3172. Theory of vapor-liquid, liquid-liquid, and solid-liquid equilibrium, including the effects of chemical reactions; applicaerion of thermodynamic theory to the correlation of equilibrium data and the prediction of equilibrium compositions.

3249, 3250 Engineering Practice (1-3, 1-3) Su only Prereq: consent of instructor. Pass-fail grading. A minimum of 6 weeks of full-time employment by an industry participating in the summer program. Same as ENGR 3049, 3050. Selected engineering problems in an industrial environment.

3271, 3272 Senior Projects (1-2, 1-2) Prereq: consent of department. Pass-fail grading. Experimental and theoretical investigations including library research.

4101 Transport Sciences: Momentum Transfer (3) F Prereq: CE 2450, CHE 2171, and MATH 2065. Fundamentals of momentum transfer, with applications to the fluid problems of engineering.


4104 Engineering Measurements Laboratory (3) S Prereq: CHE 4101 and credit or registration in CHE 4102. 2 hrs. lecture; 3 hrs. lab. Laboratory work to accompany CHE 4101 and 4102.

4151 Unit Operations Design (4) Prereq: CHE 3173 and 4102. 3 hrs. lecture; 3 hrs. lab. Unit operations analyzed as applications of chemical engineering fundamentals and transport sciences; use of these principles in design calculations.

4171 Process Economics and Optimization (3) Prereq: credit or registration in CHE 4151. Application of optimization principles to the economic design of chemical engineering unit operations.

4172 Process Design (3) Prereq: CHE 4151 and 4171. 2 hrs. lecture; 3 hrs. lab. Chemical plant design from initial concept through definitive design; includes flow diagrams, plant location, operations, safety, and waste disposal.

4173 Computer-Aided Process Design (2) Prereq: credit or registration in CHE 4172. Solution of material and energy balances for large-scale process flow sheets without incorporation of detailed unit operations models.

4190 Chemical Reaction Engineering (3) Prereq: CHE 3173 and 4101; or equivalent. Basic principles of reactor design; selection of best design alternatives; achievement of optimum reactor operation.

4198 Process Dynamics (3) Prereq: MATH 2065 or equivalent. 2 hrs. lecture; 3 hrs. lab. Principles and practices of process dynamics and automatic control; mathematical modeling of process dynamics, feedback control, and feedforward control.

4204 Technology of Petroleum Refining (3) Prereq: CHE 4151. Catalytic and thermal processes used in petroleum refining; application of scientific and engineering principles in processes such as catalytic cracking, reforming, coking, alkylation, isomerization, and hydroprocessing; emphasis on applied catalysis and its impact on engineering design.

4205 Technology of Petrochemical Industry (3) Prereq: CHE 4151. Processes used in the manufacture of petrochemicals; application of scientific and engineering principles involved in the production of hydrogen, alcohols, olefins, aromatics, aldehydes, ketones, acids, rubber, and other polymers; emphasis on catalysis by transition-metal complexes.

4253 Introduction to Industrial Pollution Control (3) Prereq: CHE 4102 or equivalent introductory course in transport science. Quantitative application of chemical engineering principles to removal of objectionable components from effluents, with emphasis on industrial processing effluents; currently available techniques for controlling air and water pollution and solid wastes; concept of pollution control through basic process alterations developed by specific examples.

4260 Biochemical Engineering (3) Prereq: credit or registration in CHE 4190 or equivalent. Application of chemical engineering fundamentals to microbiological and biochemical
systems; problems peculiar to industrial operations involving
microbial processes: growth conditions and requirements, metabolisms, product separations, enzyme catalysis, steriliza-
tion, and aseptic operations.

4262 Unit Operations Laboratory (2) Prereq: CHE 4104
and 4151; 6 hrs. lab. Obtaining and interpreting data needed
to solve typical problems in design or operation of chemical
engineering equipment.

4263 Environmental Chemodynamics (3) Prereq: CHE
4102 or equivalent introductory course in transport science.
Environmental chemodynamics: interphase equilibrium, re-
actions, transport processes and related models for anthro-
pogenic substances across natural interfaces (air-water-
sediment-soil) and associated boundary regions.

4285 Principles of High Polymers (3) Prereq: CHE 4101
and CHEM 4491. Solution and solid-state properties of high-
polymers; microstructure of polymer chains and effect on ma-
cromolecular physical properties of the final plastics.

4296 Development of Mathematical Models (3) Prereq:
CHE 2176 and 4102; or equivalent. Mathematical descriptions
of systems encountered in chemical engineering developed
from basic principles; lumped parameter systems, distributed
parameter systems, formulation of ordinary and partial dif-
ferential equations, continuous and discrete analogs, and ma-
trix formulations; models developed for systems ranging from
simple elements to plant-scale.

4410 Special Topics in Chemical Engineering Design (3)
One or more phases of current chemical engineering design.

4420 Special Topics in Chemical Engineering Science (3)
One or more phases of current chemical engineering science.

7110 Mathematical Methods in Chemical Engineering (3)
Review of physicochemical problem formulation; analytical
and approximate techniques for the solution of linear and non-
linear differential equation models in chemical engineering
systems.

7120 Chemical Engineering Thermodynamics (3) Ther-
modynamic properties, first and second laws of thermody-
namics, entropy, Maxwell relations, and relationship of
thermodynamic properties to intermolecular forces; physical
equilibrium with emphasis on partial free energy, fugacity,
Raoult's law, K-values, equations of state, and activity coef-
ficients; chemical equilibrium and free energies; fundamentals
of statistical mechanics.

7130 Fundamentals of Transport Phenomena (3) Founda-
tions of heat, mass, and momentum transfer in continua; lam-
rinar flow; boundary layer theory; turbulence; buoyancy-
induced flows; heat and mass transfer by diffusion, convec-
tion, and turbulence.

7140 Chemical Reactor Design Methods (3) Basic principles
of chemical kinetics, fluid flow, heat transfer, and mass trans-
fer used in design of chemical reactors; chemical equilibria,
chemical kinetics, design of isothermal reactors, effects of
non-ideal flow, non-isothermal reactors, and solid-gas cata-
lytic reactions.

7302 Administration of Engineering and Technical Per-
sonnel (3) See IE 7642.

7312 Analysis of Chemical Engineering Process Data (3)
Analysis of data obtained from chemical pilot plants and com-
mercial process units; methods used to obtain maximum fun-
damental information from such data; relationships between
actual performance of chemical process systems and that ex-
pected from governing chemical and physical laws.

7314 Optimization (3) Techniques of optimization including
analytical methods, linear and nonlinear programming, geo-
metric and dynamic programming, and variational methods
with application to systems of interest to chemical engineers.

7352 Distillation and Other Separation Processes (3) Math-
etical models, phase equilibria, and calculation procedures
related to design and behavior of distillation columns, ab-
sorbers, extractor-settlers, etc.; emphasis on computer tech-
niques.

7512 Advanced Chemical Engineering Analysis (3) Prereq:
CHE 4296, 7120, 7130, and 7140; or equivalent. May be
taken twice for credit with consent of department. Topics in
chemical engineering analysis, such as perturbation methods,
matched asymptotic expansions, vector and tensor calculus,
and numerical techniques.

7522 Advanced Chemical Engineering Thermodynamics
(3) Prereq: CHE 7120 or equivalent. May be taken twice for
credit with consent of department. Thermodynamics of chem-
ical engineering processes, such as nonequilibrium thermo-
dynamic properties.

7532 Advanced Chemical Engineering Fluid Mechanics (3)
Prereq: CHE 7130 or equivalent. May be taken twice for
credit with consent of department. Chemical engineering
flow processes, such as turbulence, boundary layer theory, hy-
dynamic stability, compressible flow, multiphase flow, chem-
ically reacting flows, and non-Newtonian fluids.

7534 Advanced Chemical Engineering Heat Transfer (3)
Prereq: CHE 7130 or equivalent. May be taken twice for
credit with consent of department. Chemical process heat
transfer; phase change and moving boundary problems; heat
transfer mechanisms, natural and forced convection, radiation,
and combined heat and mass transfer.

7536 Advanced Chemical Engineering Mass Transfer (3)
Prereq: CHE 7130 or equivalent. May be taken twice for
credit with consent of department. Transport of mass in chem-
ical engineering processes, such as diffusional operations,
models for mass transfer in multicomponent, multiphase, sta-
tionary, flowing, and reacting systems.

7542 Catalysis (3) Prereq: CHE 7140 or equivalent. Heter-
ogeneous catalysis; adsorption phenomena, physical methods,
solid state spectroscopies, and reaction mechanisms as appli-
cable to fundamental and industrially significant processes.

7544 Chemical Kinetics and Reaction Mechanisms (3)
Prereq: CHE 7140 or equivalent. Gas-phase reactions and
modern approach to deduction of reaction mechanism; colli-
sion, transition state, RRK, and RRKM theories, bond energy
correlations, kinetics of complex reaction systems, fast re-
actions, computer modeling, and sensitivity analysis.

7572 Advanced Automatic Process Control (3) Prereq:
CHE 4198 or equivalent. Recent developments in control the-
ory applied to control schemes in industrial processes; tech-
niques of state space analysis, nonlinear stability criteria,
multivariable control, and system identification.

7574 Digital Control of Processes (3) Prereq: CHE 4198 or
equivalent. Theory and use of digital computers for process
control; relationships between computer and process control
schemes, control algorithms, valve dynamics, modeling tech-
niques.

7582 Polymerization and Polycondensation Processes (4)
Prereq: CHEM 4160 or 4562 or CHE 4285 or equivalent. 3
hrs. lecture; 3 hrs. demonstration/lab. Also offered as CHEM
7261. Preparation and characterization of high polymers; typi-
cal commercial procedures for plastics production.

7592 Design Problems in Chemical Engineering (3) Prior to
registration students should discuss a prospective design
problem with faculty member under whom they plan to study
and obtain departmental approval. Design problem cannot be
directly related to student's research. Integration of technology into design of systems or plants for accomplishing specific objectives; emphasis on producing a design package considering technical, economic, managerial, and scheduling aspects of the project.

7594 Advanced Computer-Aided Process Design (3) Prereq: CHE 4173 or equivalent. May be taken twice for credit with consent of department. Computer-aided process design and simulation of chemical process industries, such as sequential modular flow sheeting, simultaneous solution schemes, decomposition strategies, and various simulation languages.

7700 Advanced Topics in Chemical Engineering (3) May be taken 3 times for credit with consent of instructor. One or more phases of advanced chemical engineering practice.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

CHEMISTRY (CHEM)

Laboratory Expenses: Students registering for laboratory courses in chemistry must make indemnifying deposits. Instructions and forms for making deposits will be provided at the first meeting of the laboratory. Any student unable to show a receipt for a deposit by the end of the second class period will not be permitted to continue in the course.

Prerequisites: All prerequisites in chemistry courses should be rigidly observed.

Corequisites: A student may not continue in a course if the corequisite course is dropped prior to the last day of the midsemester examination period.

1001 General Chemistry for Non-Science Majors (3) Prereq: ACT mathematics score of at least 21 or eligibility for MATH 1021. Credit will not be given for both this course and CHEM 1201 or 1421. For students whose curricula require only one year of chemistry or physical science. Modern chemical theory and principles; descriptive chemistry of selected elements and compounds; the role of chemistry in the modern world.

1002 General Chemistry for Non-Science Majors (3) Prereq: CHEM 1001 or 1201 or 1421. Credit will not be given for both this course and CHEM 1202 or 1422. Continuation of CHEM 1001; organic chemistry and biochemistry; polymers, pollution, and pharmaceuticals.

1201 Basic Chemistry (3) Prereq: ACT mathematics score of at least 23 or eligibility for MATH 1021 or a more advanced math course. Credit will not be given for both this course and CHEM 1002 or 1422. Fundamentals of chemical theory and principles; quantitative approach and problem solving; descriptive chemistry of selected elements and compounds.

1202 Basic Chemistry (3) Prereq: CHEM 1201 or 1421. Credit will not be given for both this course and CHEM 1002 or 1422. For science/engineering curricula. Continuation of CHEM 1201; more theory with emphasis on solution chemistry and a quantitative approach; descriptive chemistry of selected elements and compounds from the main groups and the first transition series.

1212 Basic Chemistry Laboratory (2) Prereq: credit or registration in CHEM 1002, 1202, or 1422. 6 hrs. lab. Credit will not be given for both this course and CHEM 1431. Breakage deposit. Basic laboratory operations including selected unit experiments and introductory inorganic qualitative analysis.

1421 Honors: Introductory Chemistry (3) Prereq: ACT mathematics score of at least 27 or eligibility for MATH 1550. Credit will not be given for both this course and CHEM 1001 or 1201. Chemistry majors who qualify should take this course. For well-prepared students with a special interest in chemistry.

1422 Honors: Introductory Chemistry (3) Prereq: CHEM 1421, or CHEM 1201 with consent of department chairman. Chemistry majors who qualify should take this course. Credit will not be given for both this course and CHEM 1002 or 1202. Continuation of CHEM 1421.

1431 Honors: Introductory Experimental Chemistry (2) S Prereq: credit or registration in CHEM 1422, or credit or registration in CHEM 1202 for chemistry majors. 1 hr. lecture; 3 hrs. lab/demonstration. Credit will not be given for both this course and CHEM 1212. For chemistry majors and other well-prepared students with special interest in chemistry. Non-Chemistry majors. Breakage deposit. Fundamental chemical operations, a selection of experiments, and elementary quantitative techniques.

1432 Honors: Introductory Analytical Chemistry (3) F Prereq: CHEM 1431, or CHEM 1212 for chemistry majors, or credit or registration in CHEM 1421 with consent of the department chairman. 1 hr. lecture; 6 hrs. lab. Intended to follow CHEM 1431. Exceptionally well-prepared students who want to complete the 1400 sequence in one year may be allowed to schedule 1432 before 1431. Breakage deposit. Fundamentals of quantitative and qualitative inorganic analysis.

2060 Organic Chemistry (3) Prereq: CHEM 1202. Credit will not be given for both this course and CHEM 2261. Aliphatic and aromatic compounds; biological aspects of organic chemistry.

2251 Analytical Chemistry for Non-Chemistry Majors (3) Prereq: CHEM 1202. Theory and application of modern analytical chemistry, including chromatography, spectroscopy, electrochemistry, and classical wet chemistry.

2252 Quantitative Analysis Laboratory (2) Prereq: CHEM 1212 and 2251. 6 hrs. lab. Breakage deposit. Fundamental techniques of quantitative analysis.

2261 Organic Chemistry (3) Prereq: CHEM 1202 or 1422. Credit will not be given for both this course and CHEM 2060. Representative classes of organic compounds; emphasis on varied professional goals of students, e.g., life sciences, physical sciences, engineering.

2262 Organic Chemistry (3) Prereq: CHEM 2261. Continuation of CHEM 2261.

2364 Organic Chemistry Laboratory (2) Prereq: CHEM 1212; and CHEM 2060 or credit or registration in CHEM 2262. 6 hrs. lab. Same as CHEM 2463. Breakage deposit. Fundamental laboratory operations of organic chemistry.

2463 Honors: Organic Chemistry Laboratory (2) S Same as CHEM 2364; primarily for chemistry majors. Breakage deposit.

2464 Organic Chemistry Laboratory (2) F Prereq: CHEM 2364. 6 hrs. lab. Breakage deposit. Organic preparations and qualitative organic analysis.
2262 Organic Chemistry 4 Prereq: CHEM 1201 or 1432. May be taken 6 times for credit; no more than 8 sem. hrs. of credit may be earned in CHEM 2900 and 3900. May be elected on recommendation of professor directing the work. Introduction to chemical research by association with departmental research group.

4561 Environmental Chemistry 2 F Prereq: one course each in quantitative analysis and organic chemistry. Also offered as ENVS 4101. Air and water environmental pollution.

4562 Industrial Organic Chemistry 3 S Prereq: CHEM 2262. Leading types of organic synthesis considered as unit processes.

4492 Physical Chemistry 3, 3 Prereq: MATH 1552; PHYS 1202 or 2102; and CHEM 1202, 1422, or equivalent; all three courses with a grade of "C" or better. CHEM 4491 is prerequisite for CHEM 4492. Principles of theoretical chemistry.

4493 Physical Chemistry Laboratory 3 S Prereq: PHYS 1209 or 2109; CHEM 1212 or 1432; and credit or registration in CHEM 4492. 1 hr. lecture; 5 hrs. lab. Breakage deposit. Selected experiments to accompany physical chemistry.

4551 Elemental Analysis by Instrumental Methods 3 F Prereq: credit or registration in CHEM 4491. 2 hrs. lecture; 3 hrs. lab. Breakage deposit. Emission spectroscopy, flame photometry, atomic absorption, X-ray absorption, fluorescence, diffraction, nuclear science, statistics and reliability of results, and sampling.

4552 Instrumental Characterization of Organic Compounds 2 Prereq: credit or registration in CHEM 4492. Molecular analysis, NMR, IR, and UV spectroscopy, mass spectroscopy, chromatography, thermal analysis, and combination of techniques.


4554 Industrial Analytical Methods 3 V Prereq: CHEM 2262 and 4492. Developments in separation methods.

4561 Intermediate Physical-Organic Chemistry 3 F Prereq: CHEM 2262 and 4492. Selected topics in kinetics, reaction mechanisms, applications of quantum mechanics to organic chemistry, and related topics in physical-organic chemistry.

4562 Intermediate Organic Chemistry 3 S Prereq: CHEM 2262. Selected topics in synthesis, natural products chemistry, stereochemistry, reaction mechanisms, and related topics in structural and synthetic organic chemistry.

4570 Advanced General Inorganic Chemistry 3 Prereq: credit or registration in CHEM 4492. For advanced undergraduate and beginning graduate students. Principles in advanced inorganic chemistry; modern interpretations.

4581 Introduction to Mathematical Chemistry 3 V Prereq: MATH 2057 and credit or registration in CHEM 4491. Mathematical methods of chemistry, with application to selected chemical problems.

4594 Introduction to Quantum Chemistry 3 V Prereq: CHEM 4492 and MATH 2057. Basic ideas of quantum mechanics; application to atomic and molecular structure.

4595 Physical Chemistry of Macromolecules 3 V See BCH 4595.

4596 Theoretical Chemistry 3 S Prereq: CHEM 2262 and 4492. Advanced treatment of fundamental principles of physical chemistry; advanced thermodynamics.

4597 Introduction to Statistical Thermodynamics 3 V Prereq: CHEM 4492 and MATH 2057. Introductory quantum and classical statistical thermodynamics of some simple systems of chemical relevance.

4660 Topics in History of Chemistry 2 Prereq: consent of instructor. May be taken 3 times for credit when topics vary. Selected topics in history of chemistry; emphasis on development of concepts of structure, bonding, molecular shapes, reactions, and reaction mechanism.

4661 Topics in History of Chemistry 1 Coreq: CHEM 4660. May be taken 3 times for credit when topics vary. Research paper on approved topic.

6001 Chemistry Instruction Through Demonstration and Experiments 3 Prereq: one year of college chemistry. 2 hrs. lecture; 3 hrs. lab. Demonstration techniques for junior and senior high school instruction; hands-on experience.

6051 Modern Analytical Methods in Chemistry for High School Teachers 3 Prereq: one year of college chemistry. 2 hrs. lecture; 3 hrs. lab. Modern analytical separations and molecular characterizations including principles and experiments of ultraviolet, infrared, nuclear magnetic resonance, mass spectroscopy, and chromatography.

6691 Seminar in Current Developments in Chemistry 1-3 Su only, V Prereq: CHEM 1202 or 1422 or equivalent. For high school and junior college teachers; part of the M.N.S. degree program.

7221 Chemical Dynamics and Kinetics 3 Prereq: CHEM 4491 and 4492. Theories of chemical reaction rates in the gas phase and in solution; chemical dynamics; gas phase and solution kinetics; applications of kinetics and chemical dynamics to mechanistic studies; modern experimental techniques.

7251 Elemental Analysis 2 V Modern analytical methods for elemental analysis including atomic absorption; atomic emission including plasma; X-ray emission; ESCA-Auger; neutron activation analysis.

7252 Nonspectroscopic Analytical Chemistry 2 V Non-spectroscopic analytical chemistry including electrochemistry, thermal analysis, chromatography, coordination chemistry, organic reagents, and catalyzed and induced reactions.

7253 Molecular Analysis 2 V Modern analytical methods for molecular characterization including infra-red, Fourier transform infra-red, ultraviolet, nuclear magnetic resonance, mass spectroscopy, chromatography, gas chromatography coupled with mass spectroscopy, thermal analysis, and X-ray diffraction.

7261 Polymerization and Polycondensation Processes 4 V See CHE 7582.

7271 Inorganic Chemistry of Nontransitional Elements 2 V Prereq: CHEM 4570 or equivalent. Chemistry of nontransitional elements including selected nonmetal chemicals (e.g., B, Si, N, P, S, F), pre- and post-transition metal chemistries, and kinetics and mechanisms of reactions of nonmetallic compounds.

7272 Inorganic Chemistry of Transitional Elements 2 V Prereq: CHEM 4570 or equivalent. Chemistry of transitional elements including structural chemistry, coordination chemistry, organometallic chemistry; theories of the coordinate bond and their application to spectra, magnetism, and kinetics and mechanisms of complexes.
7290 Statistical Mechanics and Thermodynamics (3) V Methods of statistical mechanics of independent and interacting particles including ideal gases, real gases, crystals, other solids, liquids, solutions, and chemical equilibria; advanced topics and areas of current research.

7291 Quantum Chemistry (3) V Methods of quantum mechanics applied to molecular spectra, chemical bonding, and other chemical properties; oscillators, rotators, hydrogen-like wave functions, perturbation and variation theories, configuration interaction, pi-electron systems, spin, and empirical methods.

7292 Special Topics in Chemical Physics (2-3) V Specialized areas of physical chemistry.

7750 Special Topics in Analytical Chemistry (2) May be taken 6 times for credit. Modern methods and techniques of analytical chemistry.

7760 Special Topics in Organic Chemistry (2) May be taken 6 times for credit. Specialized areas of current interest in organic chemistry.

CHINESE (CHIN)

3001, 3002 Elementary Chinese (5,5) Available only to students having no prior experience with Chinese. Cannot be used to satisfy an undergraduate foreign language require-

ment. Development of speaking and aural skills through intensive self-paced work; recorded materials and regular practice with a native speaker.

CIVIL ENGINEERING (CE)

In the Department of Civil Engineering, the second digit of the course number denotes the subject areas of the courses as follows: 0—construction (excluding 8000, 9000); 1—environmental; 2—water resources; 3—geotechnical; 4—structures; 5—surveying; 6—transportation; 7—general.

1510 Elementary Surveying and Measurements (3) Prereq: eligibility for MATH 1550 and credit or registration in CE 1550. Plane surveying, theory of measurements, use of surveying equipment, field and office work for boundary surveys, topographic mapping, construction surveys, and route surveys.

1550 Elementary Surveying Laboratory (1) Prereq: credit or registration in CE 1510. 3 hrs. lab. Laboratory to accompany CE 1510.


2200 Fluid Mechanics (3) Prereq: CE 2450. Same as ME 2833. Statics and dynamics of continuous liquids and gases; control volume laws; conservation of mass, momentum, and energy; dimensional analysis and similarity; applications to pipe flows, boundary layers, incompressible flow.

2250 Hydraulic Laboratory (1) Prereq: CE 2200 3 hrs. lab. Measurement and calibration of hydraulic machinery; pump and turbine efficiency; flow in pipelines; viscosity; discharge coefficients.

2450 Statics (3) Prereq: MATH 1552. 2 hrs. lecture; 2 hrs. lab. Vectorial treatment of resultant and equilibrium of force systems, centroids and centers of gravity, fluid statics, friction.

2500 Elementary Surveying (2) Prereq: MATH 1015, 1022, or 1023. Primarily for those desiring a terminal course in elementary surveying. Theory, use, and application of tape, level, and transit.

2510 Elementary Surveying Laboratory (1) Prereq: credit or registration in CE 2500. 3 hrs. lab. Laboratory to accompany CE 2500.

2520 Advanced Surveying (3) Prereq: CE 1510 and 1550. For students who wish to meet the requirement of 6 hrs. of surveying to take the Surveyor's Licensing Exam. Higher order surveying, triangulation, state coordinate system, horizontal and vertical curves; earthwork; astronomical observations.

2710 Introduction to Civil Engineering (1) Designed for civil engineering majors; open to nonmajors by consent of department. Basic technical and professional aspects of civil engineering education and practice.

2720 Computational Methods in Civil Engineering (3) Prereq: IE 2060 or proficiency in a programming language. Math 2057 and credit or registration in MATH 2065. Numerical techniques for solving civil engineering problems; applications of statistical methods, matrix operations, linear equations, and numerical integration and differentiation to civil engineering systems.

3082 Structural Technology—II (3) Prereq: CE 2081. Not open to civil engineering majors. Design of steel and timber structural components and connections.

3083 Reinforced Concrete Design (3) Prereq: CONS 3083. Not open to civil engineering majors. Principles and practices of concrete construction; flexure and shear in beams; reinforcement, one-way and two-way slabs; columns and footings.

3100 Water Distribution and Wastewater Collection (2) Prereq: CE 2200 and 3200. Principles and practices used in analysis and design of water supply systems and storm and wastewater collection systems.

3110 Water and Wastewater Treatment (3) Prereq: CE 2200. 2 hrs. lecture; 3 hrs. lab. Water quality criteria; unit operations and processes of water treatment; chemical and biological characteristics of wastewater; stream pollution.
3200 Hydraulics (3) Prereq: CE 2200 and 2720. Fundamentals of fluid mechanics applied to problems in the field of water; steady and unsteady flow in closed conduits, flow in open channels, measurement of flowing water, and turbo machinery; emphasis on computer methods.

3300 Geotechnical Engineering— I (3) Prereq: CE 2200, 3400, and credit or registration in CE 3350. Properties and behavior of soils as engineering materials; origin of soils, structure, strength, and deformation of soil masses; elementary theoretical treatment of consolidation, stability, earth pressure, and bearing capacity.

3350 Geotechnical Engineering Laboratory—I (1) Prereq: credit or registration in CE 3300. 3 hrs. lab. Fundamental properties of soils; testing methods to determine those properties: includes gradation, specific gravity, Atterberg limits, unconfined compression, triaxial shear, direct shear, vane shear, and one-dimensional consolidation.

3400 Mechanics of Materials (3) Prereq: CE 2450 and credit or registration in CE 2720 or equivalent. Credit will not be given for both this course and CE 3405. Stress and strain, torsion, bending, deflections of beams, columns, statically determinate problems, combined stress.

3405 Mechanics of Materials (4) Prereq: CE 2450 or equivalent. Credit will not be given for both this course and CE 3400. Stress and strain, torsion, bending, deflections of beams, columns, statically indeterminate problems, combined stress.

3410 Mechanics of Materials Laboratory (1) Prereq: credit (preferably) or registration in CE 3400 or 3405. 2 hrs. lecture; 1 hr. lab. Mechanical properties and strengths of engineering materials and structural and machine elements.

3415 Structural Analysis—I (3) Prereq: CE 3400. Analysis of statically determinate structures including beams, frames, girders, and arches for the effects of dead, live, moving, and wind loads.

3420 Structural Analysis—II (3) Prereq: CE 3400. Analysis of statically indeterminate structures by methods of consistent deformations, elastic energy, virtual work, slope of deflections, and moment distribution.

3600 Principles of Highway and Traffic Engineering (3) Prereq: CE 1510 or equivalent. Basic traffic characteristics, highway capacity analysis, geometric design of highways, traffic operations, pavement design; other modes of transportation, especially bus transit systems.

3700 Engineering Materials Laboratory (1) Prereq: credit or registration in CE 3082 or 3400 or equivalent. 3 hrs. lab. Design and properties of concrete and bituminous mixtures.

3740 Independent Studies in Civil Engineering (3) Prereq: senior standing, English proficiency, and ENGL 3002 (unless ROTC is elected); GPA of at least 2.30 (overall and major area); and consent of department chair. Project chosen in consultation with department chair. Formal proposal and final presentation required. Comprehensive design and/or development of a component, system, process, or software package.

4105 Quantitative Water Management (3) Prereq: CE 3110. Quantitative tools used to solve water management problems based upon hydraulic, mass balance, stoichiometric, kinetic, and equilibrium phenomena.

4120 Solid Waste/Hazardous Waste Management (3) Prereq: credit or registration in CE 3110. Solid waste and hazardous waste management practices including collection, identification, and classification of waste, handling and disposal techniques, and facilities parameters.

4130 Water Quality Analysis (3) 2 hrs. lecture; 3 hrs. lab. Application and interpretation of standard sanitary chemical and microbiological methods to water quality problems in the areas of water supply, wastewater treatment, and pollution of natural waters.

4140 Design of Wastewater Management Facilities (3) Prereq: CE 3100 and 3110. 2 hrs. lecture; 3 hrs. lab. Design of wastewater management facilities; process selection and evaluation using computer-assisted procedures, preparation of design drawings, reports, and cost estimates.

4200 Hydrology (3) Prereq: CE 2200 or MATH 1552. Water movement from arrival on land surface until it reaches the sea overland; concept of frequency, maximum probable runoff of rainfall, mass curves, and other statistical methods of hydrologic engineering.

4250 Ground Water (3) Prereq: CE 2200 or MATH 1552. Occurrence of ground water; properties and classification of water-bearing formulations; origin, discharge, and methods of evaluating direction and rate of ground water movement; Darcy's Law, Theis Equation, analysis of aquifer tests, and "safe yield;" legal doctrines, side effects of aquifer development, and the economics of ground water.

4260 Design of Hydrologic Systems (3) Prereq: CE 3200 and 4200 or equivalent. Hydrologic design of water resources projects; maximization of benefits; analysis techniques, and design parameters.

4300 Geotechnical Engineering— II (Shallow Foundations) (3) Prereq: CE 3300 and 3350. Fundamentals of geotechnics applied to design and analysis of shallow foundations, excavations, retaining structures, and slopes; selected topics on soil improvement and vibration; emphasis on computer utilization.

4310 Geotechnical Engineering— III (Deep Foundations) (3) Prereq: CE 3300, 3350, and 4300. Fundamentals of geotechnics applied to design and analysis of deep soil-structure systems; single piles and pile groups under axial load; caissons and piers; effects of lateral loads; computer utilization.

4320 Coastal Engineering (3) Prereq: CE 3300 or equivalent. Engineering problems of the coastal zone; coastal processes, wave action, currents, sediment movement; environmental forces due to waves, currents, and winds; offshore soil geotechnical properties, vertical and lateral pile capacity; design principles for submarine pipelines and offshore platforms; engineering case studies.

4400 Principles of Steel Design (3) Prereq: CE 3415. Analysis and design of elements of steel structures, elastic and plastic design, critical comparison of specifications with theory.

4410 Principles of Reinforced Concrete (3) Prereq: CE 3400 and 3415. Working stress and ultimate strength theories as applied to concrete beams (reinforced and prestressed), columns, slabs, and footings; experimental data and current design specifications.

4420 Principles of Prestressed Concrete (3) Prereq: CE 4410. Analysis and design of prestressed concrete structural elements; full and partial prestressing; serviceability and strength requirements; code criteria for bridges, buildings, and other structures.

4425 Principles of Wood Mechanics and Timber Design (3) Prereq: CE 3415 or equivalent. Basic principles of mechanics, elasticity, rheology, and failure as applied to wood; design methods and specifications governing the design of sawn lumber, plywood, and glulam timber structures and structural components.

4430 Structural Engineering (3) Prereq: CE 4400 and credit or registration in CE 3420 and 4410. Fundamental principles
applied to planning, analysis, and design of structures in steel, concrete, and wood; introduction to structural analysis with the aid of computers.

4440 Advanced Mechanics of Materials (3) Prereq: CE 3400 or 3405. Mechanics of materials; emphasis on needs of students interested in structural and machine design.

4450 Finite Element Methods (3) Prereq: CE 3400 or 3405; and either MATH 2065, 2090, or 4037. Basic theory of finite element methods with applications to a wide class of physical problems; matrix representation of stress, strain, and material relations; principle of virtual work, discrete finite element models of continuous systems, construction of basic finite element algorithms, and solutions of physical problems by using existing finite element computer programs.

4460 Introduction to Continuum Mechanics (3) Prereq: CE 3400, 3405, or equivalent. Concepts of stress and deformation; governing field laws, general conservation equations and special cases, i.e., conservation of mass, balance of momenta, and conservation of energy; theory of constitutive equations; applications in elementary elasticity, plasticity, and fluid dynamics.

4500 Geodetic and Photogrammetric Surveying (3) Prereq: CE 1510 or equivalent. 2 hrs. lecture: 3 hrs. lab. Geodetic surveying for control surveys; photogrammetry and photointerpretation; calculation and field procedures used in ground control surveys and photogrammetry.

4550 Boundary Surveying (3) Prereq: CE 1510 or equivalent. 2 hrs. lecture: 3 hrs. lab. Designed to prepare engineers to complete Land Surveyor Registration requirements in Louisiana. Procedures and laws governing surveying of boundaries; emphasis on U.S. Land Survey System and Louisiana surveying laws and grids.

4560 Engineering Applications of Remote Sensing (3) Prereq: consent of instructor. 2 hrs. lecture: 3 hrs. lab. Photographic and digital image processes related to interpretation, principles, methods, and techniques; engineering applications in materials, land use, energy, hydrology, transportation, geology, geomorphology, and water resources.

4600 Advanced Highway and Traffic Engineering Design (3) Prereq: CE 3600. 2 hrs. lecture; 3 hrs. lab. Traffic engineering studies of intersection, arterial street, and freeway operations; design of both rural and urban highways, intersections, and interchanges; preparation of detailed solutions for various design problems; computer applications to design problems.

4610 Introduction to Transportation Planning (3) Prereq: CE 3600. Elementary concepts in the transportation planning process; prediction of future transportation demands, mathematical modeling, and computer applications.

4620 Transportation Engineering (3) Prereq: CE 3600. History, economics, and traffic characteristics of transportation systems; planning, design, construction, maintenance, and operation of air, highway, pipeline, rail, and water transportation facilities—vehicles, guideways, and terminals.

4760 Civil Engineering Design (3) 2 hrs. lecture: 3 hrs. lab. Design of civil engineering facilities; feasibility studies for subdivisions, airports, shopping centers, interchanges.

4770 Professionalism and Ethical Practice of Civil Engineering (1) Prereq: senior standing in civil engineering. Role of professionalism in engineering education and practice; the civil engineer’s responsibility in preserving the environment and protecting the safety, health, and welfare of the public.

4780 Special Topics in Civil Engineering (3) Prereq: senior standing and departmental approval. May be taken twice for credit. More than one section may be taken concurrently for credit if topics differ. Topics in specialized areas of interest.


7110 Operations and Processes in Sanitary Engineering— II (3) Prereq: CE 3100 and 3110; or equivalent undergraduate preparation. Theory and design of water and wastewater treatment processes.

7115 Water Quality Management (3) Current environmental engineering topics, with emphasis on water quality; governmental agencies, regulations, and technological limits affecting water and wastewater treatment, solid wastes, hazardous wastes, and air pollution.

7120 Sanitary Engineering Operations and Processes Lab (3) Prereq: CE 4130, 7100, and credit or registration in CE 7110. 1 hr. lecture; 6 hrs. lab. Laboratory and pilot plant studies of water and wastewater treatment processes.

7180 Water Quality Simulations (3) Prereq: CE 4130. Water quality modeling from a perspective of practicality and reliability; emphasis on model calibration and verification procedures and methodologies for quantifying uncertainties associated with model predictions.

7200 Free Surface Flow (3) Prereq: CE 2200. Natural and artificial open channels; steady and unsteady flow, water surface profiles, channel transitions, hydraulic jump, secondary flow, and application of energy and momentum principles.

7255 Advanced Hydraulics (3) Prereq: CE 2200. Transportation of sediment, mixing current, and other phenomena.

7260 Advanced Hydrology (3) Prereq: CE 4200 or 4250 or equivalent. Hydrologic cycle, including interrelationships between classical and statistical methods of hydrology and new problems caused by waste-resource development; factual and conceptual hydrological evaluation of present practices in public and local development of water resources.

7265 Advanced Subsurface Hydrology and Hydraulics (3) Prereq: CE 4250. Properties of porous media and fluid mixtures; dynamics of flow in single phase and multiphase flow systems; miscible and immiscible flow; basic concepts in saturated and unsaturated flow; solution procedures and applications in engineering design; physics and mathematics of transport processes in ground water; governing equations, solution procedures, and applications; waste management and pollution control in subsurface environments.

7270 Hydrologic Systems (3) Prereq: CE 4200. Techniques of systems analysis and synthesis; application to hydrologic processes including runoff, streamflow routing, infiltration, evapotranspiration, and watershed yield; development of watershed models using these techniques and their application to engineering design.

7275 Modeling for Management of Groundwater (3) Prereq: CE 4250. Identification of management problems, applications of systems theory to develop modeling techniques; analytical and numerical techniques of groundwater modeling; development and application of models and computer codes for simulation and optimization management of surface and groundwater systems.


7300 Advanced Geotechnical Engineering—I (Stress Distribution, Seepage, Compressibility) (3) Prereq: CE 3300 and 3350. Advanced theories of soil mechanics including
stress distribution, seepage through soils, consolidation, and settlement analysis; their applications in foundation engineering.


7310 Advanced Geotechnical Engineering—II (Shear Strength, Bearing Capacity, Slope Stability) (3) Prereq: CE 7300. Shear strength of cohesive and cohesionless soils; stability problems including bearing capacity, slope stability, and earth pressure distribution.

7320 Advanced Design and Analysis of Foundations (3) Soils as an engineering material; geotechnics applied to advanced foundation design; design and analysis of various types of foundations, retaining walls, bridge abutments, cofferdams, earth dams, and other pertinent soil structures.

735 Marine Geotechnics (3) Prereq: CE 7310 or equivalent. Sediment properties of the seabed; in situ stress environment; analysis of foundations.

7330 Geotechnical Engineering Seminar (3) Prereq: CE 7310 or equivalent. Geotechnical problems requiring extensive literature research and discussion on testing, theoretical analysis, and decision making processes in geotechnical work; engineering geology, geophysical techniques, remote sensing, sampling and sample disturbances, in situ testing and data analysis, triaxial and plain strain shear properties of brittle and ductile soils, methods of settlement analysis, treatment of soft soils, reinforced earth, etc.

735 Soil Improvement and Stabilization (3) Prereq: CE 4300. 1 hr. lecture, 2 hrs. seminar. Methodology and analysis of soil placement and improvement techniques; properties of mineral and organic materials, principles of soil compaction; methods of soil placement and improvement, chemical stabilization of soils, lime columns, stone columns, ultimate strength and bearing capacity of columns, compression by surcharging and drains, dynamic consolidation, vibro stabilization, thermal properties of soils, thermal stabilization.

7340 Theory and Practice of Geotechnical Laboratory Experiments (3) Prereq: CE 3300, 3350, and 4300; or equivalent. 2 hrs. lecture; 3 hrs. lab. Theory and practice of laboratory experimental techniques used in geotechnical design and analyses.

7345 In-Situ Soil Testing and Evaluation (3) Prereq: CE 7340. Theory and practice of new and advanced geotechnical in-situ testing methods (i.e. piezo-cone penetrometer, self-boring pressuremeter, dilatometer, etc.)

7350 Soil Dynamics and Introduction to Earthquake Engineering (3) Prereq: CE 7310. Theory and practice related to soil-structure systems subject to time dependent loadings; wave propagation in various media, steady state and transient vibration of foundations, measurement of dynamic soil parameters, analysis and design procedures; influence of soils on ground motion characteristics; causes of soil failure during earthquakes; liquefaction.

7360 Soil Reinforcement (3) Prereq: CE 7310. Selection, design, and construction aspects of soil reinforcement systems for retaining structures, highway embankments, excavations, slope stabilization, bearing capacity, and settlement control.

7400 Statically Indeterminate Structures (3) Prereq: CE 3420 or equivalent. Analysis of statically indeterminate structures by classical and modern methods.

7405 Statically Indeterminate Structures (3) Prereq: CE 7400. Analysis of statically indeterminate structures by modern methods.

7409 Advanced Concrete Theory (3) Analysis and design of reinforced concrete structural elements according to ultimate strength and limit design theories; prestressed indeterminate structures, shrinkage, and creep.

7420 Limit Analysis and Design (3) Prereq: credit or registration in CE 7400. Analysis of steel structural behavior beyond elastic limit; design for ultimate load and use of load factors; application of linear programming and other computational techniques to optimization of structures designed by aid of concepts of limit analysis.

7430 Structural Design for Dynamic Loads (3) Prereq: CE 7400. Sources, intensities, and methods of transmission of dynamic loads; response of structural systems to dynamic loading; modern computation techniques.

7435 Advanced Structural Mechanics (3) Prereq: CE 4440 and MATH 2065; or equivalent. Plane stress and plane strain; two-dimensional problems in rectangular and polar coordinates; thermal stresses; laterally loaded plates with various boundary conditions; Navier and Levy-type solutions for rectangular plates; membrane theory of shells and applications; elastic buckling of columns; elastic stability of plates.

7440 Applied Elasticity (3) Prereq: MATH 4016 or ME 4563; and CE 3400 or 3405. May be taken twice for credit. Plane stress and plane strain; two-dimensional problems in rectangular and polar coordinates; strain energy methods; stress, strain, and general theorems in three dimensions.

7450 Energy Principles in Engineering Mechanics (3) Prereq: CE 4400 and credit or registration in MATH 4016 or ME 4563. Principle of virtual work; principle of complementary energy; Castigliano's theorems. Lagrange's equations, and Hamilton's principle; applications to stress and deflection analysis of beams, trusses, frames, plates, and rings; problems in elastic stability and vibrations.

7455 Finite Element Method in Engineering (3) Prereq: CE 4450. Finite element method as an extended Ritz technique based on variational concepts for continua with applications to heat transfer, flow through porous media, fluid dynamics, elasticity, plasticity, and stability and vibrations of elastic systems.

7460 Theory of Plates (3) Prereq: credit or registration in CE 4440. Laterally loaded plates with various boundary conditions; approximate methods of plate analysis; large deflections of plates; elastic stability of plates.

7465 Design of Plate and Shell Structures (3) Theory of folded plate and thin shell behavior; structural design of plate and shell elements.

7470 Theory of Elastic and Plastic Stability (3) Prereq: credit or registration in CE 7400. Beam columns, elastic and plastic buckling of bars and frames, torsional buckling, lateral buckling of beams, elastic and plastic stability of frames, plate and shell buckling, approximate and special methods, and high speed computation.

7475 Solid Mechanics (3) Prereq: CE 4440 and credit or registration in MATH 4016 or ME 4563. Mathematical approach to statics and dynamics of deformable solids; tensors in curvilinear coordinates and variational calculus used to formulate elasticity and viscoelasticity theory; energy theorems and conservation laws.

7480 Plasticity and Viscoelasticity: Theory and Applications (3) Prereq: CE 4440. Elements of the theory of plasticity; yield criteria and stress-strain relations for perfectly plastic and strain hardening materials; boundary value problems of plasticity; the slip-line theory and applications; constitutive equations of viscoelastic bodies and methods of solution of the boundary value problems of viscoelasticity.
COMMUNICATION DISORDERS (COMD)

1051 Spoken American English (3) Prereq: consent of instructor or international student advisor. Weekly individual work in the Speech Laboratory. Graduate students graded pass-no credit. Theoretical and practical treatment of pronunciation of American English for students of other languages; phonology, stress, intonation, and rhythm through drills, exercises, public speaking.

1080 Survey of Communication Science and Disorders (3) For students interested in the study/teaching of language. Anatomical and physiological bases of normal and disordered verbal communication.

2050 Introduction to Language (3) Linguistic study of the principal interrelated levels of language structure: phonetics, phonology, morphology, syntax, and semantics; related topics such as writing systems and dialects.

2081 Introduction to Communication Disorders (3) Required initial course for undergraduates concentrating in speech pathology and audiology. Observations in Speech and Hearing Clinic required. Processes involved in speech production; definition, description, and incidence of speech and hearing disorders; overview of the profession, including agencies, related professionals, job opportunities, publications, professional associations, and certification.

2150 Introduction to Speech and Hearing Sciences (3) Comprehensive survey of the communicative process from the speaker to the listener; speech production, acoustics, and speech perception.

4150 Phonetics (4) Prereq: COMD 2050. 3 hrs. lecture; 1 hr. lab. Principles of phonemics; articulatory phonetics; description and classification of sounds; transcription at different levels of detail; production and perception.

4153 Acoustics of Speech and Hearing (3) Prereq: COMD 2081. Production, transmission, and perception of speech acoustics in communication; acoustic phonetics and psychoacoustics.

4190 Introduction to Audiology (3) Prereq: COMD 4153. Interaction of hearing and speech, effects of hearing loss on speech and language development, types of hearing loss and evaluation processes.

4250 Anatomy and Physiology of Speech and Hearing (3) Prereq: ZOOL 1001 and 1002, or 2160. Functional anatomy of structures associated with speech production, and reception.

4252 Neuroanatomical Bases of Speech and Hearing (3) Prereq: ZOOL 2160 and COMD 4250. 3 hrs. lecture; 1 hr. lab (optional). Study of neuroanatomy and physiology utilizing an overview method of instruction followed by a systems approach; functional aspects of central nervous system under normal and pathological conditions; primary focus on brain and cranial nerves.

4390 Language Development (3) Language acquisition and behavior, language and cognitive development, verbal learning, and structural properties of speech; theories of language development in the "normal" child including sensory, motor, mental, social, emotional, speech, and language skills.

4391 Articulation Disorders (3) Prereq: COMD 4150 or equivalent. Introduction to articulatory physiology, development, etiology, evaluation and treatment of disorders.
Communication Disorders

4382 Basic Language Disorders of Children (3) Prereq: COMD 4380 or equivalent and consent of instructor. Differential diagnosis and remediation of major language disorders of children.

4383 Basic Fluency Disorders (3) Prereq: COMD 4381 or equivalent. For clinical practicum take COMD 4683, 4684, or 4685. Stuttering and allied disorders; emphasis on symptomatology, testing, rehabilitation and prevention.

4384 Basic Voice Disorders (3) Introduction to vocal physiology, dynamic characteristics and measurement of fundamental frequency, and differential diagnosis and management of voice disorders of functional and abuse etiologies.

4480 Measurement and Management of Communication Disorders (3) Prereq: consent of instructor. Psychological, behavioral measurement of communicative functioning and treatment planning for common speech/language disorders.

4490 Audiometric Testing (3) Prereq: COMD 4250, 4190. Practice and application in pure-tone and speech audiometry, middle-ear measurements, differential diagnosis; physiological tests including auditory evoked potentials.

4590 Auditory Rehabilitation in Children (3) Prereq: COMD 4153, 4190. Methods of management including modes of communication, auditory and speech-reading training, amplification issues, early identification and intervention, and educational placement.

4683, 4684, 4685 Clinical Practice—Therapeutic Techniques (1-4 each) Prereq: COMD 4381 and 7383. May be repeated for a max. of 8 sem. hrs. credit each. On- and off-campus practicum in specific disorders (articulation, language, fluency, voice, hearing, etc.).

4694 Clinical Practicum in a Medical Environment (1-4) Prereq: consent of instructor. Speech and/or audiology practicum in a hospital or medical practitioner’s office.

4750 Independent Research in Speech Science or Linguistics (1-3) May be repeated for a max. of 3 hrs. credit. Readings in speech science or linguistics directed by a senior faculty member.

6051 Spoken English Workshop (3) Prereq: COMD 1051 or equivalent. For non-native speakers of English; open only to participants in Summer Institutes in English. Speaking, reading, and dramatic exercises to develop fluency and communicative competence; the phonological system of English, including suprasegmentals.

6155 Current Trends in English as a Second Language (3) Open only to participants in Summer Institutes in English. Contemporary theory and research in second language acquisition and teaching; English as a second language in native and foreign environments; teaching strategies, bilingual education, testing, materials preparation, culture, and English as a second dialect.

7151 Speech Science (3) Motor and articulatory phonetics, including palatography, acoustic phonetics, and aspects of signal detection and perception.

7152 Instrumentation and Methods for Speech and Hearing (3) Prereq: COMD 4153 or equivalent. Instrumentation and application techniques for assessment and research in speech and hearing, from basic theory of transducer operation to the use of state-of-the-art devices; emphasis on application and interpretation of acoustic analysis, aerodynamic and articulatory measures, sensory and motor electrophysiology.

7153 Research Design in Communication Science and Disorders (3) Prereq: EXST 4001, 4006. Empirical research design problems in speech and hearing; emphasis on measurement validity and reliability.

7191 Hearing Science (3) Prereq: COMD 4250. Auditory transmission and processing from the outer ear to the cortical area; psychophysical phenomena germane to human audition.

7192 Hearing Aids: Electroacoustics and Fitting (3) Prereq: COMD 7191, 7490. Electroacoustic analysis of hearing aids, earmold acoustics, selection and evaluation procedures, special devices, and problems in communication and speech processing.


7381 Language Disorders—II (3) Prereq: COMD 4382. Language disorders and the communicative aspect of language; current research and treatment models for language intervention.

7382 Voice Disorders—II (3) Prereq: COMD 4384. Incidence, etiology, concomitant problems; assessment and management of vocal dysphonias, aphonia, and laryngectomees.

7383 Cleft Palate/orofacial Disorders (3) Prereq: COMD 4250, 4380. Orofacial anatomy, physiology, and embryology; etiology and classification of orofacial cleft; surgical, dental, speech, hearing, and psychosocial concomitants and their management.

7384 Early Communicative Intervention (3) Prereq: COMD 4382 or equivalent. For clinical practicum, take COMD 7684 or 7685. Cognitive, social, and environmental conditions associated with “high risk” for communicative disorders; intervention approaches (prevention, evaluation, direct stimulation of child-caregiver interactions) and service delivery models (home-based, center-based).

7385 Neuropathologies of Speech (3) Prereq: COMD 4250, 4252, and 4381; or equivalent. Physiological and anatomical basis of dysarthria, apraxia, and related speech disorders due to neuropathology in the adult population; emphasis on diagnosis, description, and clinical management.

7387 Aphasia in Adults (3) Prereq: COMD 4252 or equivalent and consent of instructor. Neurological bases of aphasia and related disorders; appropriate therapeutic methodologies.

7388 Fluency Disorders—II (3) Prereq: COMD 4383 or equivalent. Etiology and nature of speech fluency disorders.

7389 Communicative Rehabilitation of Severely/Multiply Handicapped Children (3) Medial aspects of severely handicapping conditions; alternate communication systems; assessment and intervention processes; pragmatics of interpersonal communication involving children who use non-speech modalities.

7390 Professional Responsibility and Business Practices in Audiology (3) Prereq: COMD 7490. The audiologist in business situations, including industrial audiology, private practice, and hearing aid dispensing; emphasis on successful business practices and professional and public responsibilities.

7391 Educational and Pediatric Audiology (3) Prereq: COMD 7490. Identification and management of the young child; social and psychological concomitants of auditory disorders; genetic hearing loss and other high risk types of impairment related to hearing.

7393 Pathology of the Auditory System (3) Prereq: COMD 4250, 7191, 7490. Medical aspects of hearing loss including conductive, sensory, neural, and central auditory dysfunction; diseases, abnormalities, and methods of medical intervention.

7490 Diagnostic Audiology—I (3) Prereq: COMD 7191. Behavioral tests and middle-ear measurements in relation to test purpose, scientific basis, assessment strategies, procedures, and interpretation using cross-check principles.
7491 Diagnostic Audiology—II (3) Prereq: COMD 7490 or consent of instructor. Auditory evoked potentials and electroneystagmography examined in relation to purpose, scientific basis, assessment strategies, procedures, and interpretation using cross-check principles.

7590 Auditory Rehabilitation of Adults (3) Prereq: COMD 7192. Special needs of the adult hearing-impaired individual (communicative, social, and vocational); hearing aid use and components of the rehabilitation process.

7683, 7684, 7685 Graduate Clinical Practice—Therapeutic Techniques (1-4 each) Prereq: credit or enrollment in the course dealing with the specific disorder in which practicum is to be taken. May be repeated for credit in order to obtain the clock hours necessary for certification by the American Speech-Language-Hearing Association. Only 6 sem. hrs. of academic credit may be counted toward the degree, although all practicum hours count for professional certification. Pass-fail grading. On- and off-campus graduate practicum in specific areas (articulation, language, fluency, voice, aural rehabilitation, early intervention, diagnostic audiology, oral-facial anomalies, neurological disorders, etc.).

7750 Special Topics in Linguistics (3) May be repeated twice for credit for the master's degree and 4 times for the doctorate when topics vary. Topics to be announced.

7752 Seminar in Linguistic Theory (3) Problems in analysis of language; emphasis on phonology and semantics.

7754 Psycholinguistics: Linguistic Perspectives (3) Prereq: ENGL 4010 or equivalent. Also offered as PSYC 7754. Theories of constituent structure and their application; discourse/semantic principles and their application; speech errors and language universals.

7755 English for Speakers of Other Languages: Methods and Materials (3) Problems of teaching English to speakers of other languages; assessment and production strategies for spoken language; discourse analysis, theoretical foundations, second language acquisition, and development of a teaching syllabus; work with international students.

7756 Independent Research: Phonetics and Linguistics (1-3) Prereq: consent of instructor. May be repeated for a max. of 6 sem. hrs. credit. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7780 Seminar in Communicative Disorders (3) Prereq: consent of instructor. May be repeated for credit. Selected topics pertaining to diagnosis of communicative disorders.

7781 Independent Research: Speech Science (1-3) Prereq: consent of instructor. May be repeated for a max. of 6 sem. hrs. credit. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7782 Individual Research in Communication Disorders (1-3) Prereq: consent of instructor. May be repeated for a max. of 6 sem. hrs. credit. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7790 Seminar in Hearing Disorders (3) Prereq: consent of instructor. May be repeated for credit. Exploration of current professional/scientific topics in clinical practice/research.

7791 Independent Research: Audiology (1-3) Prereq: consent of instructor. May be repeated for a max. of 6 sem. hrs. credit. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7850 Experimental Phonetics—Acoustics (3) Prereq: Ph.D. standing and permission of instructor. Acoustic theory of speech production; basic acoustics, tube models of the vocal tract, spectral analysis, speech synthesis, and comprehensive acoustic descriptions of features, phonemes, syllables and phrases.

7851 Experimental Phonetics—Physiology (3) Prereq: consent of instructor. Physiology of speech production; emphasis on laryngeal, respiratory, lingual, mandibular, and velar articulation singly and in coordinated movement during speech production; emphasis on models of skilled motor control for speech.

7852 Experimental Phonetics—Perception (3) Prereq: COMD 4153 or equivalent. Processes which underlie perception of speech; emphasis on acoustic clues for speech and listener perception; models of speech perception including adult, disordered, and developmental.

7853 Psychoacoustics (4) Prereq: COMD 7191, 3 hrs. lecture; 3 hrs. lab. Admission to Ph.D. program required. Classic and contemporary readings about perception of sound; examination of psychoacoustical methods, signal detection theory, frequency processing, pitch perception, intensity processing, binaural hearing and temporal acuity.

7854 Physiological Acoustics (4) Prereq: COMD 7191 and admission to Ph.D. program. 3 hrs. lecture; 3 hrs. lab. Concepts of acoustic analysis, basic physiological acoustics, and psychoacoustic correlates; animal and human recordings.

7855 Neuroscience for Speech and Hearing (5) Prereq: admission to the Ph.D. program or consent of the department; 3 hrs. lecture; 6 hrs. lab. Structure and function of the human brain and spinal cord including neural cytoLOGY, trophic functions, communicative functions, cytoarchitecture, sensory systems, cerebellum, hypothalamus, cerebral cortex, basal ganglia, and motor systems.

7880 Advanced Seminar in Language Disorders (3) Theory, contemporary issues, and research related to language disorders as a method of inquiry and intervention; evaluation of research methodology.

7882 Advanced Individual Research in Communication Science and Disorders (1-6) Prereq: admission to Ph.D. program and consent of instructor. May be repeated for a max. of 6 hrs. credit. Research topics ancillary or extraneous to dissertation research.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

**COMPUTER SCIENCE (CSC)**

1240 FORTRAN Programming (3) Prereq: credit in MATH 1021 or sufficiently high score on the mathematics placement examination to qualify for MATH 1022 or 1431. Not open to students with registration or credit in MATH 1550. Credit will be given for only one of the following: CSC 1240, 1241, 2260, 2262, or IE 2060. For students in disciplines other than engineering and the physical sciences. Computer programming; examples and exercises from the business area.

1241 FORTRAN Programming (3) Prereq: credit or registration in MATH 1550. Credit will be given for only one of the following courses: CSC 1240, 1241, 2260, 2262, or IE
marily for students in computer science and related disciplines. COBOL programming; its use in business data processing systems.

2280 Computer Organization (3) Prereq: CSC 2252. Basic digital circuits; Boolean algebra and combinational logic, data representation and transfer, and digital arithmetic; digital storage and accessing, control functions, input-output facilities, system organization, and reliability; description and simulation techniques; features needed for multiprogramming, multitasking, and real-time systems; other advanced topics and alternate organizations.

3102 Advanced Data Structures and Algorithm Analysis (3) Prereq: CSC 2252 or EE 3770 and credit or concurrent enrollment in CSC 2259 or EE 2720. Description and utilization of formal ADT representations, especially those on lists, sets, and graphs; time and space analysis of recursive and nonrecursive algorithms, including graph and sorting algorithms; algorithm design techniques.

3999 Independent Undergraduate Research (1-3) Prereq: consent of department chairman. May be repeated for credit for a max. of 4 sem. hrs. Individual readings, conferences, and program development in computer science.

4101 Programming Languages (3) Prereq: CSC 3102. Credit will not be given for both this course and CSC 7001. Principles of programming language design; specification of syntax and semantics; underlying implementation of block structured languages; dynamic memory allocation for strings, lists, and arrays; imperative versus applicative programming; logic programming; modern programming languages.

4103 Operating Systems (3) Prereq: CSC 3102. Design techniques, process management, processor scheduling; deadlocks, memory management, secondary memory management, file management; I/O systems, Unix systems.

4304 Systems Programming (3) Prereq: CSC 4103. Batch process systems programs, their components, operating characteristics, user services and limitations; implementation techniques for parallel processing of input-output and interrupt handling; overall structure of multiprogramming systems on multiprocessor hardware configurations; addressing techniques, core management, file system design and management, system accounting, and other user-related services; traffic control, interprocess communication, design of system modules, and interfaces; system updating, documentation, and operation.

4310 Communications in Computing (3) Prereq: MATH 1552. See EE 4710.

4321 Minicomputers (3) Prereq: CSC 1240, 1241, 1248 or 1250. 2 hrs. lecture; 3 hrs. lab. May not be taken as a computer science major's senior elective or as part of the restricted electives option. Characteristics of small computing systems used for laboratory automation, data communications, data acquisition and control; emphasis on hardware, software, and interfacing of minicomputers; survey of applications.

4330 Software Systems Development (3) Prereq: CSC 3102. Software requirements analysis; design representation, programming methodologies; verification, validation, maintenance, and software planning.

4351 Compiler Construction (3) Prereq: CSC 3102 or equivalent. Credit will not be given for both this course and CSC 7001. Program language structures, translation, loading, execution, and storage allocation; compilation of simple expressions and statements; organization of compiler including compile-time and run-time symbol tables, lexical scan, syntax scan, object code generation, error diagnostics, object code
optimization techniques; and overall design; use of compiler 
writing languages and bootstrapping.

4354 Computer Graphics (3) See EGR 4243.

4355 Applied Interactive-Graphic Computer-Aided Design (3) See EGR 4255.

4360 Sequential Machines (3) Prereq: CSC 2259. Elementary
number systems and codes, switching algebra, combinations
algorithms, circuit simulation, sequential machines, finite
automata, equivalence of states and machines, reduced ma-
chines, and other topics.

4362 Advanced Numerical Methods and FORTRAN (3) 
Prereq: CSC 2263 or equivalent. Problem solving by digital
computer, use of numerical methods in the solution of dif-
fierential equations; testing and automation of methods on the
digital computer; problems programmed in FORTRAN.

4368 Computational Techniques in Linear Programming
(3) Prereq: CSC 1240 or 1241; MATH 2085 or 2090; and IE 4510, QBA 4020, or equivalent. Solving linear programs on
the digital computer; the simplex method, inversion tech-
niques, pricing and pivot selection, separable programming,
generalized upper bounding, integer programming, and de-
composition techniques.

4402 Introduction to Database Management Systems (3) 
Prereq: CSC 3102. Network, hierarchical, and relational, and
entity-relationship models; data definition, manipulation lan-
guages, and conversion among these models; relational da-
tabase design theory, efficient query evaluation, elementary
query optimization techniques.

4444 Artificial Intelligence (3) Prereq: CSC 3102. Theorem
proving and inferencing techniques, production systems,
knowledge representation, approximate reasoning, non-
ommonotic reasoning, natural language understanding, scene anal-
ysis, planning, game playing, and learning.

4602 Fundamental Computer Science for Teachers (3) 
Prereq: CSC 1601 or equivalent, MATH 1021, knowledge of 
a computer programming language, and credit in an educa-
tion methods course numbered 3000 or above. Advanced pro-
grammimg techniques; emphasis on structured programming,
software and hardware organization, data structures, graphics,
and other topics to prepare students to teach computer science 
in secondary schools.

4890 Introduction to Theory of Computation (3) Prereq: 
CSC 2259. Introduction to finite automata, regular expressions 
and languages; push-down automata and context-free lan-
guages; selected advanced language theoretical topics; em-
phasis on technique.

4999 Selected Topics in Computer Science (3) Prereq: con-
sent of department. May be taken 3 times for credit.

7001 Computing Principles—I (3) Prereq: CSC 3102 or 
equivalent. Credit will not be given for both this course and 
CSC 4101 or 4351. Comparative programming language con-
cepts, semantics, data types, control structures, functional
languages, compilers, and compiler construction.

7002 Computing Principles—II (3) Prereq: CSC 7001 or 
equivalent. Fundamentals of operating systems, including 
evaluation methods; functional organization and architecture 
of computers, including arithmetic/logic and control units, 
microprogramming, input/output facilities, real-time systems 
microprocessors, multiprocessors, distributed processing, and 
digital logic; comparative study, including unix, CP/M, OS/
MVS, and VM/370.

7030 Computer-Based Information Systems Analysis (3) 
Prereq: CSC 3102. Analysis and logical design of computer
and information systems; systems approach and use of infor-
mation for management decision making; information systems
analysis techniques; analysis of computer systems and inter-
action between computer components through use of models.

7080 Computer Architecture (3) Prereq: CSC 7002 or equiva-
 lent. Background in electronics not required. Functional ar-
chitecture of modern digital computer systems; detailed
description of instruction set implementation with monopro-
cessor and multiprocessor structures; design and analysis of
instruction sets and control structures.

7101 Programming Language Structures (3) Prereq: CSC 
4101. Advanced study of data specification, storage manage-
ment, and control in programming languages; includes cov-
erage of formal specification languages; languages for con-
current processing; languages that support program verifi-
cation techniques; and in-depth study of applicable lan-
guages.

7103 Advanced Operating Systems (3) Prereq: CSC 4103. 
Protection and security, format protection models; queueing 
theory and network models; performance comparison and 
deadlock handling in distributed systems; Byzantine problem;
distributed operating systems.

7120 Performance Evaluation of Computer and Commu-
nication Systems (3) Prereq: CSC 4103. Modeling tech-
niques, specification of queuing systems, product form 
networks, algorithms for performance networks, operational
analysis, performance bound techniques, blocking and priority
networks.

7135 Software Engineering (3) Prereq: CSC 4330 or equiva-
 lent. Formal specification techniques, design techniques, ab-
straction, information hiding, modularity, software testing,
automated testing tools, maintainability factors, and cost es-
imation.

7200 Theory of Computation—I (3) Prereq: CSC 4351 or 
7001. Mathematically formal study of finite automata; regular
expressions and languages; push-down automata and context-
free languages; Turing machines, context-sensitive and phase-
structured grammars; recursively enumerable languages and the
halting problem; emphasis on theory.

7201 Theory of Computing—II (3) Prereq: CSC 4890 or 
7200 or MATH 7200. Decidable and undecidable computing
problems; complexity, intractability, and feasibility of com-
puting problems; gap, compression, and speedup theorems;
reducibility of problems; provable properties of complexity of
algorithms.

7235 Advanced Software Engineering (3) Prereq: CSC 
7135. Formal testing, validation and verification techniques;
indepth study of formal specification languages and tech-
niques.

7300 Algorithm Design and Analysis (3) Characteristics of an 
algorithm; problems of algorithm existence; the design, 
implementation, and complexity of algorithms; algorithm case
studies.

7351 Advanced Compiler Design Theory (3) Prereq: CSC 
4351 or 7001. Automatic generation of LL(1), LR(1), LALR(1) parsers, syntax directed translation of high-level
control structures, error recovery, optimization of branching,
local code optimization using directed acyclic graphs, loop
optimization, global data flow analysis, and object-code op-
timization.

7373 Algorithms for Parallel and Distributed Computing
(3) Prereq: CSC 7300 or equivalent. Parallel algorithms for
searching, sorting, matrix processing, network optimization,
and other problems; implementation and efficiency measures of
the algorithms on different machines, and VLSI systolic
arrays.

7374 Computational Models for Mobile Robots (3) Prereq:
CSC 7300. Computational tools for design, analysis, and im-

Implementation of algorithms for robotic applications; existing computational paradigms, constraint representation and real-time modeling for robotic vision; image understanding, path planning, autonomous navigation and sensor-fusion problems for mobile robots.

7402 Data Base Management Systems (3) Prereq: CSC 4402. Implementation of database systems (physical model and its mapping to conceptual model); data structures and their influence on performance, concurrency control, distributed databases; advanced database systems.

7405 Automation of Bibliographic Control Systems (3) See LIBS 7506.

7406 Information Science (3) See LIBS 7605.

7407 Abstracting and Indexing (3) See LIBS 7606.

7410 Online Information Retrieval (3) See LIBS 7607.

7444 Advanced Artificial Intelligence (3) Prereq: CSC 4444. Temporal and non-monotonic logic; truth maintenance systems; probabilistic reasoning; deductive databases; automated learning, planning, and tutoring; story understanding; structure of domain dependent expert systems.

7481 Information Retrieval Systems (3) Prereq: CSC 3102 or equivalent. Also offered as LIBS 7610. Topics include commercially available retrieval systems, text content analysis, query processing models, and current research problems.

7500 System Modeling and Computer Simulation (3) Prereq: CSC 2263 or equivalent. Construction and use of mathematical and computer models; parameter estimation; compartmental models; simulation techniques; applications of simulations; examples and case studies from physical, social, and life sciences, engineering, business, and information sciences.

7560 Computational Methods (3) Prereq: 6 hrs. of mathematics beyond MATH 1552. Computer techniques for root isolation and determination, numerical approximation techniques, numerical integration and differentiation, solution of ordinary and partial differential equations, solution of linear systems of equations, matrix diagonalization, and integral transforms; error analysis, implementation and efficiency measures for algorithms used to solve these problems.

7700 Special Topics in Computer Science (3) May be taken 4 times for credit. Specialized areas of current interest in computer science.

7998 Seminar in Computer Science (1) Prereq: consent of department chairman. May be taken 6 times for credit.

7999 Selected Readings in Computer Science (1-3) Prereq: consent of department chairman. May be repeated for a max. of 6 sem. hrs.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

CONSTRUCTION (CONS)

1011 Materials and Methods of Residential and Light Commercial Construction (3) See IAT 2011

1511 Introduction to Construction (1) The construction industry; classification of and participants in the construction industry; traditional and nontraditional approaches; educational requirements for construction management.

1583 Construction Graphics and Nomenclature (3) 6 hrs. lab. Graphical communication concepts and techniques relating to construction processes and nomenclature.

2024 Welding Technology (3) See IAT 3024

2040 Technical Drawing, Reading, Sketching, and Takeoff (3) See INED 2040.

2519 Microcomputer Applications in Construction (2) Prereq: CONS 2040 and CSC 1248. Utilization of software for estimating, planning, and scheduling, and financial analysis.

3083 Structures for Construction (3) Prereq: CE 3082. Wood design, formwork, and structures for construction.

3091 Systems for Construction Management (3) Prereq: CSC 1248. Systems approach to solving complex construction problems; latest mathematical and nonmathematical methods; models developed for construction application.

3110 Soils for Construction (4) Prereq: CE 3082. 3 hrs. lecture; 3 hrs. lab. Engineering properties of soils and their behavior in heavy earth structures; field testing of soils and decision making at construction level; soil exploration, testing, treatment, and stabilization; use of organic soils and shells in construction; drainage and settlement problems.

3171 Mechanical Equipment of Buildings (3) Prereq: PHYS 2002. Type, design, installation, and performance of mechanical equipment used in buildings, including plumbing and air conditioning.

3561 Quantity Surveying, Estimating, and Bidding—I (4) Prereq: CONS 3573. 2 hrs. lecture; 4 hrs. lab. Principles, theories, and systems of estimating and forecasting construction costs; quantity surveys, work classification; pricing analysis; preparation of total bid package for prospective clients.

3562 Quantity Surveying, Estimating, and Bidding—II (4) Prereq: CONS 3561 and 3574. 2 hrs. lecture; 4 hrs. lab. Continuation of CONS 3561.

3573 Materials, Methods, and Equipment—I (3) Prereq: CONS 2040, ENGL 2002 (or BCOM 2071), or consent of instructor for non-construction majors. Job planning, work methods, materials, and equipment required in building and heavy construction.

3574 Materials, Methods, and Equipment—II (Heavy and Industrial Construction) (3) Prereq: CONS 3573. Continuation of CONS 3573, with emphasis on both heavy and industrial equipment.

3579 Electrical Installations (3) Prereq: PHYS 2002. Wiring systems for residential, commercial, and industrial buildings; illumination.

3590 Selected Topics in Construction (3) Not open to construction majors. Selected topics in quantity surveying, cost estimating and methods, and equipment used in construction.

3591 Seminar in Building Construction (3) Prereq: senior standing. Research and reports on special projects.

3592 Special Projects in Construction (3) Prereq: senior standing. May be repeated for a max. of 6 sem. hrs. if topics vary. Design solutions for construction structures coordinated with construction and erection techniques.

3593 Construction Administration (3) Prereq: credit or registration in CONS 3561. Principles and theory of ownership, organization, contracts, insurance, bonding, and labor relations pertaining to the construction industry.

3594 Construction Management (3) Prereq: CONS 3593.
Theory and objectives of construction management; principles of project funding and cash flow; depreciation and productivity.

CRIMINAL JUSTICE (CJ)

1107 Introduction to Criminal Justice (3) Criminal justice system, including police, courts, and corrections; emphasis on dynamic interrelationships between various elements in the system as well as special problem areas.

2131 Police and Society (3) Prereq: CJ 1107. Historical and philosophical background in America; emphasis on police role in contemporary society, emerging issues and evolving police strategies.

2132 Judicial Process (3) Prereq: CJ 1107. Historical and philosophical background in America; emphasis on local, state, and federal systems and functions; emerging issues and evolving court reforms.

2133 Corrections (3) Prereq: CJ 1107. Historical and philosophical background in America; emphasis on local, state, and federal systems; emerging issues and evolving correctional reform.

2399 Introduction to Justice Research Methods (3) Prereq: CJ 1107 and BKLI 1001. Logic of inquiry; ethics and politics in research; sampling procedures; various research designs related to the study of crimes, criminals, and the criminal justice process.

3030 Organized Crime (3) Definition, analysis, and evaluation of world-wide organized crime phenomena; emphasis on the American variant; organized crime activities, anti-organized crime tactics and current criminal justice policy implications.

3040 Minorities, Crime, and Justice (3) Issues related to ethnic and racial minorities in the criminal justice system; minorities as offenders; impact of the justice system on minorities as victims and employees.

3050 Victimology (3) Emergence of victimology and public awareness of crime victims; review of victimization data and their implications; interaction between victims and the criminal justice system; emphasis on victimization of women, children, elderly.

3101 Criminal Procedure (3) Prereq: CJ 1107 or equivalent. Principles and applications of criminal law of evidence and procedure.

3401 Criminal Behavior and Personality (3) Relationship between personality and criminal behavior; criminal behavior as an adaptation to a particular set of circumstances.

3900 Justice Internship (1-3) Prereq: 75 hours of course work completed, 2.50 overall gpa, written consent of department head and supervising faculty member; max. of 3 hrs. may be credited toward junior/senior level criminal justice electives from combination of CJ 3900 and 3999; pass-fail grading. Field study/research (under the supervision of a faculty member) with a criminal justice agency or related organization.

3999 Readings in Criminal Justice (1-3) Prereq: 75 hours of course work completed; 2.5 overall gpa; Written consent of department head and supervising faculty member. May be repeated for credit for a max. of six semester hours.

4000 Criminal Justice Theory (3) Prereq: CJ 2399 or equivalent. Analytical, ideological, and theoretical developments regarding justice policy.

4010 Juvenile Justice System (3) Evolution, philosophy, and processes of the juvenile justice system; the rights of juveniles, dispositional alternatives, and future trends directed at solving current problems.

4100 Criminal Law (3) Prereq: CJ 1107 or equivalent. Also offered as POLI 4100. Structure, definitions, elements, and interpretations of the most frequently used sections of the criminal codes.

4399 Advanced Topics in Justice Research (3) Prereq: CJ 2399, EXST 2000, EXST 2201, or equivalent. Research practices and procedures; quantification and analysis of data; policy implications of research; evaluation of research.

4400 Justice Organization Theory (3) Prereq: CJ 2399 or equivalent. Theories and practices of organizational behavior in justice agencies.

4800 Special Topics in Criminal Justice (3) May be taken twice for credit when topics vary. Analysis of an advanced topic, current issue, or recent development in criminal justice.


7002 Justice Administrative Theory (3) Prereq: CJ 4400 or equivalent. Administrative and management theories, principles, and practices related to criminal justice agencies; focus on organizational behavior and design.

7003 Justice Research Methodology (3) Prereq: 4399 or equivalent. Research methods in criminal justice; logic of research, research design, sampling, data collection techniques, and analysis.

7101 Justice Evaluation and Policy Analysis (3) Prereq: CJ 7003 or equivalent. Analysis and interpretation of evaluation research; policy analysis in criminal justice agencies.

7102 Comparative Justice Systems (3) Contemporary criminal justice systems in western European, communist-block, and third world nations; international crime, world terrorism, and related issues.

7103 Crime and Politics (3) Politics as a critical factor in shaping crime; effectiveness of the justice system in responding to the crime problem; links between governmental entities and crimes, criminals, laws and justice policy.

7206 Seminar: Issues in Policing (3) Prereq: consent of instructor; may be repeated for a max. of 6 hours if topics vary. Specialized areas in policing.

7207 Seminar: Issues in the Judiciary (3) Prereq: consent of instructor; may be repeated for a max. of 6 hours if topics vary. Specialized areas in the judiciary.

7208 Seminar: Issues in Corrections (3) Prereq: consent of instructor; may be repeated for a max. of 6 hours if topics vary. Specialized areas in corrections.

7209 Seminar: Issues in Juvenile Justice (3) Prereq: consent of instructor; may be repeated for a max. of 6 hours if topics vary. Specialized areas in juvenile justice.

7210 Seminar: Issues in Justice Research (3) Prereq: CJ 7003. May be repeated for a max. of 6 hrs. credit when topics vary.

7700 Individual Reading and Research in Criminal Justice (3) May be taken twice for credit.
7800 Selected Topics in Criminal Justice (3) May be taken twice for credit when topics vary. Advanced topics, current issues, or recent developments.

7999 Criminal Justice Project (3) Substantive project for the non-thesis student who has completed all core courses. Project must be approved by departmental committee. Preparation of a scholarly paper focused on a specific aspect of criminal justice.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

CURRICULUM AND INSTRUCTION (EDCI)

1000 Introduction to the Study of Education (3) F,S,Su Credit will not be given for both this course and EDAF 2000. Field experience in multicultural settings in secondary schools. Historical foundations, organization, and administration of American public education.

2025 Foundations and Principles of Teaching in Elementary School (3) 2 hrs. lecture; 2 hrs. field experience in elementary schools. Open only to students enrolled in programs leading to teacher certification.


2045 Principles and Practices in K-12 Programs (4) Prereq: EDCI 1000 and enrollment in a program leading to teacher certification in grades K-12. 3 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Managerial aspects of instruction; application of learning principles to the classroom setting.

2700 Characteristics of Exceptional Children (3) F,S,Su 2 hrs. lecture/field experience. Individual differences of various types of exceptional children; characteristics, educational programs, and resources for treatment.

2701 Exceptional Children: Mild/Moderate and Severe/Profound Impairments (3) Prereq: EDCI 2700. Etiology, behavioral aspects, and treatment of the educationally handicapped child.


3100 Books and Audio-Visual Materials for Young Adult Resource Centers (3) F Selection and evaluation of audio-visual materials for the adolescent; emphasis on secondary school curriculum.

3112 Reading Instruction in the Elementary School (6) Prereq: EDCI 2025; concurrent registration in EDCI 3113 for elementary grades majors. 3 hrs. lecture; 6 hrs. field experience in multicultural settings. Current instructional materials and methods in teaching reading at the elementary school level; understandings and skills in a laboratory situation in the public schools.

3113 Materials and Methods in Teaching Communicative Skills in the Elementary School (2) Prereq: EDCI 2025; concurrent registration in EDCI 3112 for elementary grades majors. Instructional materials and methods in teaching language arts communicative skills at the elementary school level; understanding and skills in a laboratory situation in the public school.

3125 Materials and Methods in Elementary School Science (3) Prereq: EDCI 2025 or equivalent, and concurrent enrollment in EDCI 3126 and 3127. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Materials, methods, and trends in teaching elementary school science; strategies for developing science concepts, processes, and attitudes; practice teaching and related skills in a public school setting.

3126 Materials and Methods in Elementary School Mathematics (3) Prereq: EDCI 2025 or equivalent, 6 sem. hrs. of credit in mathematics courses, and concurrent enrollment in EDCI 3125 and 3127. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Materials, methods, and trends in teaching mathematics at the elementary school level; understandings and skills in a laboratory situation in the public school.

3127 Materials and Methods in Elementary School Social Studies (3) Prereq: EDCI 2025 or equivalent, and concurrent enrollment in EDCI 3125 and 3126. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Basic rationales, techniques, strategies, and materials for teaching social studies in the elementary/middle school.

3135 Teaching Reading in the Junior and Senior High School (3) Prereq: EDCI 2040 or 2045 or equivalent. Approaches for teaching reading; general review of reading skills.

3136 Reading in the Content Areas (3) Prereq: EDCI 3135 or equivalent. Content area reading problems and solutions; the reading process, approaches, skills, and materials.

3137 Diagnostic-Prescriptive Instruction in Reading (3) Prereq: EDCI 3112. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Additional training in reading instruction beyond that offered in the basic reading course, EDCI 3112.

3142 Materials and Methods in Secondary School English (3) F only Prereq: EDCI 2040 and credit for or registration in 21 of the 24 sem. hrs. of English courses required for a teaching minor in secondary school English, 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3143 Materials and Methods in Secondary School French (3) F only Prereq: EDCI 2040 and credit for or registration in 23 of the 26 sem. hrs. of French courses required for a teaching minor in secondary school French. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3144 Materials and Methods in Secondary School Social Studies (3) F,S Prereq: EDCI 2040 and credit for or registration in 21 sem. hrs. of the social studies courses required for a teaching minor in secondary school social studies, 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Techniques, strategies, and materials for teaching secondary school social studies.

3145 Materials and Methods in Secondary School Latin (3) Prereq: EDCI 2040 and credit for or registration in the Latin courses required for a teaching minor in secondary school Latin. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3146 Materials and Methods in Secondary School Mathematics (3) F only Prereq: EDCI 2040 and credit for or registration in 17 of the 20 sem. hrs. of mathematics courses required for a teaching minor in secondary school mathematics. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Techniques, strategies, and materials for teaching secondary school mathematics.

3147 Materials and Methods in Secondary School Science (3) F only Prereq: EDCI 2040; 8 sem. hrs. of biology (BIOI 1001, 1002, 1003, 1004 or BOTY 1001, 1002 or ZOOL 1001, 1002); 8 sem. hrs. of chemistry (CHEM 1201, 1202, 1212); 8 sem. hrs. of physics (PHYS 2001, 2002, 2009, 2108 or PHYS 2101, 2102, 2108, 2109); and credit for or registration in at least 8 additional sem. hrs. from among the science
courses required for the teaching major (biology, chemistry, or physics) or minor (biology, chemistry, physics, or general science) selected by the student. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3148 Materials and Methods in Secondary School Speech (3) S only Prereq: EDCI 2040 and credit for or registration in the speech courses required for a teaching minor in secondary school speech. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3149 Materials and Methods in Secondary School Spanish (3) F only Prereq: EDCI 2040 and credit for or registration in 23 of the 26 sem. hrs. of Spanish courses required for a teaching minor in secondary school Spanish. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3160 Materials and Methods in Art in Elementary and Secondary Schools (3) Prereq: EDCI 2045 and credit for or registration in 25 of the 31 sem. hrs. of art courses required for a teaching minor in art. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.


3181 Materials and Methods in Communicative Disorders in the Elementary and Secondary Schools (3) Prereq: EDCI 2025, completion of all speech courses required in curriculum, and concurrent enrollment in EDCI 3641. Speech, language, and hearing services in the public schools; organization and implementation.

3621 Student Teaching in the Secondary School (8) Prereq: see "Requirements for Student Teaching." 2 hrs. lecture; 15 hrs. lab. Pass-fail grading.

3625 Student Teaching in the Elementary Grades (12) Prereq: see "Requirements for Student Teaching." 2 hrs. lecture; 30 hrs. lab. Pass-fail grading.


3650 Student Teaching in the Secondary Grades (12) Prereq: see "Requirements for Student Teaching." 2 hrs. lecture; 30 hrs. lab. Pass-fail grading.

3640 Student Teaching in the Elementary and Secondary Schools (8) Prereq: see "Requirements for Student Teaching." 2 hrs. lecture; 15 hrs. lab. For art, health science, music, physical education, and speech, language, and hearing specialist majors. Pass-fail grading.

3641 Student Teaching in Communicative Disorders in the Elementary and Secondary Schools (12) Prereq: see "Requirements for Student Teaching"; concurrent enrollment in EDCI 3181. 1 hr. lecture; 30 hrs. lab. Pass-fail grading.

3660 Materials and Methods in School Library Practice (3) Prereq: EDAF 3000, 3100, 3552, and 3553. 6 hrs. lab. See "Application for Student Teaching." Materials and methods in use of the school library by elementary and secondary school children.

3701 Assessment of Exceptional Children (3) Prereq: EDCI 2700 and concurrent enrollment in EDCI 3708. Assessment of the handicapped; technical aspects of administering, scoring, and interpreting formal tests; designing and using informal techniques for the handicapped.

3708 Practicum in Assessment (3) Prereq: concurrent enrollment in EDCI 3701. 1 hr. seminar; 6 hrs. lab. Educational assessment of exceptional children; administration of a battery of tests.

3720 Methods for Designing and Assessing Materials for the Mildly/Moderately Handicapped Student (3) Prereq: EDCI 2700 and 2701. 3 hrs. lecture/field experience. Formal and informal techniques for effective utilization of materials; evaluation and selection of published materials; design of teacher-made materials.

3721 Methods of Teaching Students with Learning and Behavior Problems (3) Prereq: EDCI 2700 and 2701. 3 hrs. lecture/field experience. Strategies for teaching the mildly handicapped; developing and implementing the Individual Education Program; communicating with parents and professionals.

3722 Methods of Teaching Academic Subjects to the Mildly/Moderately Handicapped (3) Prereq: EDCI 2700 and 2701. 3 hrs. lecture/field experience. Application of theories, methods, and materials.

3759 Student Teaching in Special Education (Mental Retardation) (8) Prereq: EDCI 3751 and 3752; see "Requirements for Student Teaching." 1 hr. lecture; 14 hrs. lab. Pass-fail grading. Laboratory teaching experience to accompany the curriculum in elementary grades and education of the mentally retarded.

3760 Curriculum for the Severely/Profoundly Impaired (3) Prereq: EDCI 2700 and 2701. Procedures, methods, and materials for teaching severely/profoundly impaired individuals.

3761 Instructional Strategies for the Severely/Profoundly Impaired (3) Prereq: concurrent enrollment in EDCI 3760. Assessment of current functioning levels, specific teaching strategies, and methods of evaluating teaching procedures and student progress.

3762 Health and Safety Procedures for the Severely/Profoundly Impaired (3) Prereq: EDCI 2701. 2 hrs. lecture; 2 hrs. lab. Health and safety concerns specific to the severely profoundly impaired; instructional strategies suited to sheltered and public school settings.

4020 Foundations of Kindergarten Education (3) Prereq: consent of instructor. Philosophical foundations of early education; contemporary models and approaches.

4025 Modern Principles and Practices in the Elementary School (3) Prereq: consent of instructor. Current issues in elementary education; research findings applied to the solution of instructional problems.

4040 Principles of Secondary Education (3) Prereq: consent of instructor. Analysis of criticisms of secondary education; functions of schools and institutions in a complex political, social, and economic matrix; current theories and relevant research.

4055 Principles and Practices in Kindergarten Education (3) Prereq: HEC 2055 or PSYC 2076; 2.50 gpa required for registration. Same as HEC 4055. Classroom organization and instructional management using pre-academic objectives for kindergarten as an entry point into elementary school.

4057 Methods of Teaching Nursery School and Kindergarten (3) Prereq: HEC 2055 or equivalent. 2 hrs. lecture; 2 hrs. lab; 2.50 gpa required for registration. Same as HEC 4057. Philosophy, teaching methods, and materials needed for optimum learning experiences for the child under six.

4058 Student Teaching in the Kindergarten (5) Prereq: prior application, EDCI/HEC 4057, and credit or registration in EDCI/HEC 4055 for undergraduates; credit or registration in EDCI/HEC 4055 for students with elementary certification. 1 hr. seminar; 12 hrs. lab; 2.50 or better gpa required for registration. Same as HEC 4058. Supervised experiences in planning children's activities in kindergarten programs for varied cultural groups and socioeconomic levels.
4113 Communication Skills and Language Development for the Young Child (3) Prereq: EDCI 3412 or equivalent. Analysis of communication skills of the child ages 0 to 6; techniques for teaching these skills and diagnosing potential communication problems.

4406 Materials and Methods for Teaching Computer Science (3) Prereq: 3 sem. hrs. in computer science or equivalent. 3 hrs. lecture plus field experience. Materials and methods for planning instruction in computer science.

4635 Internship in Curriculum and Instruction (3-12) Prereq: permission of the College of Education Office of Clinical Experiences. Pass-fail grading. Specific teaching or practical experience in a public school setting; periodic evening seminars.

4701 Problems of Exceptional Children (3) F,S,Su Exceptionality and special education; changes required by recent federal and state legislation; information related to the integration of educational services and services offered by other community, state, and national agencies.

4703 Reading and Analysis of Research in Human Development (3) Student is responsible for registering with a faculty member and selecting the area of reading and research analysis.

4704 Contingency Management with Exceptional Children (3) Prereq: EDCI 2700 or 2701 or equivalent. Skills for behavior management of children in public school programs; theoretical and historical foundations; practical application of techniques.

4705 Learning and Behavior Principles Applied to Exceptional Children (3) Prereq: EDCI 4704. 2 hrs. lecture; 2 hrs. lab. Application of advanced principles and practical solutions to problems of mild/moderate and severe/profound exceptionalities.


4749 Student Teaching in Special Education: Mild/Moderate Impairments (12) Prereq: EDCI 4728. 1 hr. seminar; 30 hrs. lab. Pass-fail grading. Laboratory teaching experience to accompany the curriculum in generic training.

4760 Methods for Paraprofessionals Working with the Severely/Profoundly Impaired (3) Prereq: EDCI 2700 and 2701. Procedures for utilizing and training paraprofessionals to work with the severely/profoundly impaired.

4761 Medical Aspects of the Severely/Profoundly Impaired (3) Prereq: EDCI 3760 and 3761. Medical problems and implications for teaching the severely/profoundly impaired; roles of medical and related personnel.

4762 Counseling Exceptional Children and Their Parents (3) Special skills and information related to counseling exceptional children and their parents; types of exceptionality; types of counseling; the impact of exceptionality on individuals and families; and special counseling (such as occupational).

4789 Student Teaching in Special Education: Severe/Profound Impairments (12) 1 hr. seminar; 30 hrs. lab. Pass-fail grading. Integration of learning theories and experiences.

4800 Teaching in the Multicultural Classroom (3) Strategies, and resources for teaching students of cultural diversity in the classroom; development of units and activities of cultural variety.

5500 Reading Program Development for the School Administrator (3) Cannot be substituted for other reading courses in the program. Reading program design in the elementary and secondary schools to assist administrators and supervisors in developing an understanding of a total school reading program.

5700 Special Topics in Special Education (3) V Not for degree credit. May be taken 3 times for credit when topics vary. New methods, trends, and techniques.

5880 Special Topics in Education (1-3) Prereq: consent of instructor. May be repeated for a max. of 9 sem. hrs. credit. New methods, trends, and techniques.

7001 Special Education in the Regular Classroom (3) Su Not for degree credit for special education students. Methods and techniques for teaching the handicapped student in a regular classroom.

7015 Advanced Behavior Modification Techniques (3) F,S Prereq: EDCI 4704 or equivalent.

7105 Teaching Reading in the Elementary School (3) Current instructional procedures and research in reading instruction in the elementary school; approaches and ideas for teaching reading to culturally different students.

7106 Teaching Reading to Students with Different Language Backgrounds (3) Prereq: ENGL 4010 or equivalent. Characteristics of learners from diverse language settings; analysis of methods and materials which support reading instruction for such students.

7107 Special Problems in Reading (3) For students who wish to explore a problem or topic in reading under the guidance of an expert in the field. Content varies.

7108 Studies in the Teaching of Elementary School Science (1-3) Prereq: EDCI 3125 or equivalent. Theoretical foundations, instructional skills, and materials for teaching elementary school science.

7109 Studies in the Teaching of Elementary School Mathematics (3) Techniques and materials for teaching elementary school mathematics; relationship between learning theories and acquisition of mathematical skills and concepts.

7110 Studies in the Teaching of Elementary School Social Studies (3) Methods and materials for teaching elementary-level social studies.


7125 Teaching Reading to the Adult Learner (3) Theory, research, and practical application.

7130 Techniques and Resources for Reading Instruction (3) Prereq: EDCI 7105 or 7135 or equivalent. Methods and materials in all areas of reading; demonstration and student production; application of materials and methods for effective reading instruction.

7131 Developing Learning Skills Through Content Reading (3) Relationships between learning skills and content areas; the reading process; materials and research related to reading.

7135 Techniques for Teaching Reading in the Middle and Secondary School (3) Reading skills appropriate for the upper levels; approaches for teaching reading; techniques for improving the school reading program.

7140 Studies in the Teaching of Social Studies in Secondary Schools (3) Theory and research with practical application to areas of study needed to teach social studies in the secondary school.

for teaching mathematics in secondary schools; relationship between learning theories and acquisition of mathematical skills and concepts.

7142 Studies in the Teaching of English in Secondary Schools (3)

7143 The Teaching of Literature in Secondary Schools (3)

7147 Studies in the Teaching of Secondary School Science (3) Prereq: EDCI 3147 or equivalent; and science teaching experience. Instructional materials, evaluation practices, and science teaching skills for grades 7-12.

7149 Studies in the Teaching of Foreign Languages (3) Prereq: completion of an undergraduate foreign language methods course and/or teaching experience; or consent of instructor. Principles and current research related to the teaching of foreign languages.

7170, 7171 Advanced Vocal Pedagogy (2, 2) Also offered as MUS 7170, 7171. MUS 7170 compares the various approaches to teaching singing; MUS 7171 presents problems in vocal pedagogy and their solutions; individual research and actual teaching situations.

7172 Stringed-Instrument Pedagogy (2) Also offered as MUS 7172.

7173 Woodwind-Instrument Pedagogy (2) Also offered as MUS 7173.

7174 Brass-Instrument Pedagogy (2) Also offered as MUS 7174.

7175 Percussion-Instrument Pedagogy (2) Also offered as MUS 7175.

7200 Characteristics of the Severely and Profoundly Impaired (3) V Prereq: EDCI 4701 or equivalent. Etiology and behavioral aspects of the severely and profoundly impaired.

7201 Educational Aspects of the Severely and Profoundly Impaired (3) V Prereq: EDCI 7200 or equivalent. Treatment and education of the severely and profoundly impaired.

7202 Teaching Children and Youth with Physical Handicaps/Multiple Disabilities (3) V Prereq: EDCI 4701 or equivalent. Methods and materials applicable to teaching children and youth with physically handicapping or multiple conditions resulting from neurological or orthopedic impairments.

7205 Critical Analysis of Current Research in Reading (3) Prereq: 12 hours of graduate reading courses or equivalent. Evaluation of current and needed research; application of research findings in the instructional program.

7208 Practicum in Special Education: Severely and Profoundly Impaired (6) V Prereq: EDCI 7201 or equivalent. 1 hr. seminar; 12 hrs. lab. Observation and participation in demonstration classes for severely and profoundly impaired individuals; integration of curriculum, methods, and materials.

7210 Characteristics of Mildly/Moderately Handicapped Children (3) Prereq: EDCI 2700, 4701 or equivalent. Prerequisites to academic success for mildly handicapped children; theories and methods for teaching academic subjects.

7211 Teaching Academic Subjects To Mildly/Moderately Handicapped Children (3) Prereq: EDCI 2700, 4701 or equivalent; and EDCI 7210. Prerequisites to academic success for mildly handicapped children; theories and methods for teaching academic subjects.

7218 Practicum in Special Education: Mild/Moderately Impaired Children (3-6) F,S,SU Prereq: EDCI 7210, 7211, and 12 graduate hrs. in special education. 1-2 hrs. conf.; 6-15 hrs. lab. Pass-fail grading. Supervised experience in specific educational settings.

7247 Teaching in the Science Laboratory (3) Prereq: EDCI 3147 or equivalent. 2 hrs. lecture; 2 hrs. lab. Interpreting research in laboratory science instruction; use of results to generate creative laboratory activities.

7308 Topics in Science Education (3) Prereq: EDCI 3147 or 7108; or equivalent. May be taken twice for credit when topics vary.

7309 Topics in Mathematics Education (3) Prereq: EDCI 7109 or 7141 or consent of instructor. May be taken twice for credit when topics vary.

7310 Topics in Social Education (3) Prereq: EDCI 7110 or 7140; or equivalent. May be taken twice for credit when topics vary.

7311 Topics in Language Arts Education (3) Prereq: EDCI 7111 or 7142; or equivalent. May be taken twice for credit when topics vary. Selected topic in a specific subject matter, level of instruction, or a methodological problem in teaching English language arts.

7312 Diagnostic and Prescriptive Teaching in Mathematics (3) Prereq: EDCI 7109 or consent of instructor. Techniques for evaluating mathematical strengths and weaknesses of elementary and middle school students and for providing appropriate instruction.

7313 Teaching Literature in the Elementary School (3) Prereq: EDAF 3551 or equivalent. Role of literature in elementary education; relevant teaching issues and strategies; integration of literature into the elementary curriculum.

7314 Teaching Written Composition in the Elementary School (3) Prereq: EDCI 3113 or equivalent. Practices and curricula in the teaching of written composition in the elementary school; its relationship to language arts instruction.

7425 Designing, Implementing, Evaluating, and Supervising the Reading Program (3) Prereq: 12 hours of graduate reading courses or equivalent. Techniques and procedures used in setting up and supervising a reading program at the school, parish, and state levels; theoretical foundations in planning and supervising a reading program; practical application of theory.

7426 Linguistic Applications in Reading Instruction (3) Prereq: ENGL 4010, EDCI 7131, 7682, 7683; and either EDCI 7105 or 7135 or equivalent. Theoretical foundations for understanding the application of linguistics in reading instruction.

7610 Advanced Seminar and Practicum in Curriculum and Instruction (3-6) The student, major professor, and a committee will structure experiences around the student's needs and interests.

7682 Diagnostic Techniques and Practicum in Reading (3) Prereq: EDCI 7105 or equivalent. 2 hrs. lecture; 2 hrs. lab. Mastery level skills for evaluating reading strengths and weaknesses of elementary and secondary school students; theoretical models and a practicum for applying techniques.

7683 Prescriptive Techniques and Practicum in Reading (3) Prereq: EDCI 7105 and 7682; or equivalent. 2 hrs. lecture; 2 hrs. lab. Procedures for prescriptive instruction in reading; theory and practice.

7684 Advanced Internship in Reading (6) Prereq: advanced standing in the specialist or doctoral program or equivalent. 1 hr. lecture; 10 hrs. lab. Field experiences in various job-related settings. Teaching experiences at the local school and university levels; administrative experience at the parish level, and consultant experience at the state level.

7685 Applied Research in Reading (3) Prereq: enrollment in advanced graduate program and EDAF 4249; or equivalent. Individual research project.
7701 Current Issues in Special Education (3) V Prereq: EDCI 4701 or equivalent, and 9 additional hours in special education. May be taken 3 times for credit. Student is responsible for registering with faculty member and selecting the issues to be studied.

7711 Evaluation of Exceptional Children (3) F,S,Su

7713 Individual Study in Special Education (3) V

7715 Diagnostic-Prescriptive Teaching in Special Education (3) V Prereq: EDCI 4701 and 7711; or equivalent. 3 hrs. lecture and lab work. Assessment and individualized programming for educationally handicapped; assessing individual functioning levels, writing individual educational plans; methods and materials to support the programming.

7718 Practicum in Individual Assessment (3) V Prereq: EDAF 7333 or EDCI 7711; or equivalent. Supervised experiences in specific educational assessment techniques; practical, in-depth approach to educational assessment.

7720 Education of Emotionally Disturbed Children (3) F,S,Su Prereq: consent of instructor. Defining emotional disturbance, determining an incidence rate, and identifying a variety of causal factors; history of service delivery systems; impact of the problem on the public school system.

7721 Principles and Practices in Teaching Emotionally Disturbed Children (3) F,S,Su Prereq: consent of instructor. Methods of teaching and techniques for management of emotionally disturbed children in educational programs; theoretical information used to establish a rationale for varying methods and techniques; practical applications of theoretical models.

7722 Theories of Behavior in Classroom Management (3) F,S,Su Prereq: consent of instructor. Theories of maladaptive behavior patterns in school age children.

7728 Practicum in Special Education: Emotional Disturbance and Social Maladjustment (6) V Prereq: EDCI 7720 or equivalent; and completion of or concurrent enrollment in EDCI 7721 or equivalent. Concentrated field experience for students specializing in this area. For the master's degree student, all-day, all-tenant attendance at the practicum site is required. For the specialist's level, 280 clock hours of practicum activities is the minimum requirement.

7730 Education of the Hearing Impaired (3) V Prereq: EDCI 4701 or equivalent. Problems of hearing impairment; effects on educational, social, emotional, psychological, and vocational adjustment.

7731 Special Methods for Teaching the Hearing Impaired (3) V Prereq: EDCI 7730, 7732, and 7734 or equivalent. Development and adaptation of curricular materials; instructional media, technology, and procedures to meet educational needs of hearing-impaired children.

7732 Language Development for the Hearing Impaired—I (3) V Prereq: EDCI 7730 or equivalent. Communication processes; development of oral and written expressive and receptive language.

7733 Language Development for the Hearing Impaired—II (3) V Prereq: EDCI 7732 or equivalent. Continuation of EDCI 7732: techniques and materials for development and improvement of reading and written language skills for the hearing impaired.

7734 Speech Development for the Hearing Impaired—I (3) V Prereq: EDCI 4701 and 7730; or equivalent. Development, improvement, and correction of speech for the hearing impaired.

7735 Speech Development for the Hearing Impaired—II (3) V Prereq: EDCI 7734 or equivalent. Diagnosis and planning for remediation or correction of individual cases and group situations.

7738 Practicum in Special Education: Deaf and Hard of Hearing (6) V 1 hr. lecture; 10 hrs. lab.

7740 Introduction to Children with Learning Disabilities (3) F,S,Su Prereq: credit or registration in EDCI 4701; or equivalent. Learning disabilities; historical development, prevalent theories, characteristics, teaching strategies, organizational patterns.

7742 Methods of Instruction for Children with Learning Disabilities (3) F,S,Su Prereq: EDCI 4701 and 7740; or equivalent. Various approaches (perceptual-motor, multisensory, language development) to teaching children with learning disabilities.

7748 Practicum in Special Education: Learning Disabilities (6) V Prereq: EDCI 4701, 7740, and 7742. 1 hr. lecture; 10 hrs. lab.

7750 Education of the Mentally Retarded Child (3) F,S,Su Prereq: EDCI 4701 or equivalent. Psychological orientation to mental retardation; characteristics of the mentally retarded child; current research in mental retardation.

7751 Curriculum and Methods of Teaching the Mentally Retarded (3) F,S,Su Prereq: completion of or concurrent enrollment in EDCI 7750 or equivalent. Curriculum development for the mentally retarded; research in current methodology and teaching approaches.

7758 Practicum in Special Education: Mental Retardation (6) V 1 hr. lecture; 10 hrs. lab.

7760 Nature and Needs of the Gifted and Talented (3) V Historical perspective, social, emotional, and educational characteristics; administrative considerations; sociological and psychological studies; special populations.

7761 Curricular Theories and Methods for Teaching the Gifted and Talented (3) V Prereq: EDCI 7760 or equivalent. Curricular theories, materials, and strategies for teaching the gifted and talented; emphasis on development and evaluation of educational plans for individuals and groups.

7762 Creative Behavior (3) V Nature and analysis of creative behavior; appraisal and implementation of specific processes designed to encourage creative productivity.

7765 Severe Disabilities in Reading (3) Prereq: EDCI 7682 and 7683; or equivalent or 9 hours in special education. 2 hrs. lecture; 2 hrs. lab. Severe reading disabilities as manifested in school-age children; theoretical models as well as practical application of techniques.

7768 Practicum in Education for the Gifted (6) V Prereq: EDCI 7750, 7761, and 7762. Minimum 240 hrs. per sem., including 1 hr. weekly seminar. Planning, implementing, and evaluating teaching strategies, materials, and counseling techniques in a school program.

7770 Characteristics of the Young Handicapped Child (3) V Prereq: EDCI 4701 or equivalent. Characteristics, educational implications; programming models.

7771 Educational Assessment of Young Handicapped Children (3) V Prereq: EDCI 7770 or equivalent. Assessment and identification procedures.

7772 Education of Young Handicapped Children (3) V Prereq: EDCI 7770 or equivalent.

7778 Practicum in Special Education: Young Handicapped Children (6) V Prereq: EDCI 7772. 1 hr. seminar; 12 hrs. lab.

7780 Seminar in Special Education (3) V For advanced graduate students.
7790 Organization and Administration of Special Education (3) Su Practical and theoretical aspects; emphasis on current practices in public school programs.

7791 Educational System Analysis (3) V Prereq: completion of 3 sem. hrs. in educational administration or equivalent. Same as EDAF 7791.

Basic techniques for designing and analyzing instructional systems; emphasis on specification of instructional objectives, design and selection of instructional alternatives, and evaluation of instructional systems.

7798 Practicum in Special Education: Administration of Special Education (6) V 1 hr. lecture; 10 hrs. lab.


7811 Seminar in Current Trends in Education Literature (3) Open only to students who have completed qualifying examination for the doctoral degree. Entry seminar for doctoral students in elementary and secondary education.

7821, 7822 Problems in Curriculum and Instruction (2-4, 2-4) For advanced graduate students who are qualified to undertake individual problems.

7824 Elementary School Curriculum (3) Content, organization, and evaluation of the elementary school curriculum.

7825 Secondary School Curriculum (3) Content, organization, and evaluation of the secondary school curriculum.

7830 Advanced Seminar in Junior High/Middle School Instruction (3) For advanced students in elementary and secondary education with special interest in the instructional program for early adolescents.

7844 Creativity in Early Childhood Education (3) Role of creativity in designing the educational environment for young children; philosophy, teaching techniques, and instructional planning; role of parents, teachers, and today's multicultural society in the development of creativity.

7845 Teaching Concepts in Early Childhood (3) Methods and materials for the teaching of mathematics, science, and social studies concepts in the early childhood curriculum.

7846 Diagnostic Teaching in Early Education (3) Prereq: EDCI 4055 or equivalent. Using age-level competency skills for developing diagnostic strategies for young children to be used as the basis for instructional planning.

7880 Seminar in Reading (1) May be repeated for a max. of 9 sem. hrs. credit when topics vary; a minimum of 4 sem. hrs. is required for each doctoral student in reading. Pass-fail grading. Special topics not covered in other reading courses.

7901 Curriculum Theory (3) Prereq: either EDCI 7824 or 7825; or equivalent. Curriculum theory, means for strengthening the curriculum; links between past and current conceptualizations of curriculum.

7902 Analysis of Research on Teaching (3) Prereq: EDAF 7006 or equivalent. Theory of design and application of research related to systematized instruction.

7903 Curriculum Planning (3) Prereq: EDCI 7901 or equivalent. Principles of curriculum needs assessment, design, implementation, and evaluation.

7920, 7921 Analysis of Research in Curriculum and Instruction (3) Prereq: EDAF 7241 or equivalent. A max. of 6 sem. hrs. may be earned in this series; only 3 sem. hrs. may be earned in any one area. Factors influencing research and critical analysis of selected research in one of the following areas: curriculum, mathematics, science, language arts, social, or early childhood education.

7930, 7931 Seminar: Curriculum and Instruction (1-6) A max. of 6 sem. hrs. may be earned in this series when topics vary. Trends and issues in one of the following areas: curriculum, mathematics, science, language arts, social, or early childhood education.

8000 Thesis Research (1-12 per sem.) “S”/“U” grading.

9000 Dissertation Research (1-12 per sem.) “S”/“U” grading.

DAIRY SCIENCE (DARY)


1049 Dairy Production Operations and Animal Evaluation (2) F Prereq: credit or registration in DARY 1048. 1 hr. lecture; 2 hrs. lab. Basic production practices with dairy cattle; animal evaluation and identification, milking operations, animal care, and fitting and showing.

2075 Milk and Dairy Foods (3) F Product processing techniques and related principles involved in market preparation of milk and dairy foods; emphasis on consumer and processor viewpoints relative to product composition, processing, marketing, sanitation, and related environmental aspects.

2085 Milk Quality Control Laboratory (2) S 4 hrs. lab. Public Health Service laboratory and inspection procedures for quality control on dairy farms and in milk plants.

2093 Advanced Dairy Products Judging (1) S 2 hrs. lab. A college team is selected from this group. Advanced techniques in judging and evaluating dairy products; emphasis on competitive judging.

3001 Public Health Administration (2) S Prereq: MBIO 2051 or equivalent. Organization and administration of national, state, and local public health agencies.


3049 Topics in Dairy Science (1-3) F,S,Su Prereq: consent of department head. May be repeated for a max. of 6 hrs. credit. Topics from dairy production or dairy food manufacturing areas.

4010 Applied Animal Nutrition (4) S Prereq: ANSC 4009 or equivalent. 3 hrs. lecture; 2 hrs. lab. Applied nutrition; feed requirements of swine, poultry, horses, beef cattle, dairy cattle, and sheep; utilization and classification of feedstuffs; feed processing and formulation of diets and diet supplements.

4021 Fermented Dairy Foods (3) F Prereq: MBIO 2051. 2 hrs. lecture; 2 hrs. lab. Principles and processes involved in the manufacture of various types of cheese and other cultured dairy foods.

4022 Frozen Dairy Foods (3) S Prereq: MBIO 2051. 2 hrs. lecture; 2 hrs. lab. Principles and processes involved in the manufacture of ice cream, other frozen desserts, and concentrated milk products.

4040 Quality Assurance in the Food Industry (4) S Prereq: MBIO 2051. 3 hrs. lecture; 2 hrs. lab. Also offered as ANSC 4040, FDSC 4040, and PLSC 4040. Laboratory functions, manufacturing processes, and microbiological, chemical, and statistical techniques used to provide complete quality assurance for the modern dairy food plant.
ECONOMICS (ECON)

1010 Development of the Economic System in the United States (3) Credit will not be given for both this course and ECON 4010. Open only to Junior Division students. Major forces of the American economic system from colonial times to the present; forces leading the U.S. into internationalism.

1050 The Economics of Social Issues (3) Open only to Junior Division students; cannot be substituted for ECON 2010, 2020, or 2030. Economic aspects of contemporary social issues; methods and approaches for dealing with such issues.

2010 Economic Principles and Problems (3) Credit will not be given for both this course and ECON 2030. Nature of economics, concepts and problems; economic systems and the role of government; accounting, analytical, and policy aspects of national income and product; the money and banking system.

2020 Economic Principles and Problems (Continued) (3) Prereq: ECON 2010. Credit will not be given for both this course and ECON 2030. Continuation of basic economics; theories of production, determination of prices in regulated and unregulated industries, functional distribution, international economics, and problems of economic development.

2030 Economic Principles (3) An honors course. ECON 2031, is also available. Credit will not be given for both this course and ECON 2010 and 2020. Economic understanding of both micro- and macroeconomic principles; problems associated with monetary policy, fiscal policy, public finance, government and business, labor, international trade, economic growth, and comparative economic systems.

2031 HONORS: Economic Principles (3) Same as ECON 2030, with special honors emphasis for qualified students.

2035 Money, Banking, and Macroeconomic Activity (3) Prereq: ECON 2010 and 2020; or 2030. Role of commercial banks, other financial institutions, and the central bank in affecting the performance of the economy; relationships of money and fiscal policy to prices, production, and employment; internal and external effects of U.S. fiscal and monetary policy.

3310 Economics of Consumption (3) Prereq: ECON 2010 and 2020; or 2030; or equivalent. Credit will not be given for both this course and HEC 3060. Applied course in personal consumer economics; budgeting; saving; use of consumer credit; buying insurance, housing, and securities; retirement planning.

3715 Business Finance (3) See FIN 3715.

3900 Selected Topics in Economics (3) Prereq: ECON 2010 and 2020; or 2030. May be taken twice for credit when topics vary.

3999 Independent Study: Economic Problems (1-3) May be repeated for credit for a max. of 6 sem. hrs. For undergraduate students with a grade-point average of 3.00 or above. Independent economic research and study under the direction of a faculty member.

4010 The United States—Its Economic Growth (3) Prereq: ECON 2010 and 2020; or 2030; or equivalent. Credit will not be given for both this course and ECON 1010. The American economy; modern problems dealing with money and banking, taxation, labor, international trade, and American position in world affairs.

4015 Marxist Economics (3) Prereq: ECON 2010 and 2020; or 2030. Marx’s economic theory and critique of capitalism; survey of contribution of radical economic theory since Marx.

4020 Comparative Economic Systems (3) Prereq: ECON 2010 and 2020; or 2030. Theory and practice of economic
systems: capitalism, socialism, and centrally planned economies.


4030 Development Economics (3) Prereq: ECON 2010 and 2020; or 2030. Political, social, and technological factors affecting development of the third world.

4040 Economic Development Policy (3) Prereq: ECON 2010 and 2020; or 2030. Role of U.S. and other advanced industrialized countries in the economic development of Third World countries.

4050 Economic Development of Europe (3) Prereq: ECON 2010 and 2020; or 2030. Major elements in the economic development of resources, transportation, marketing, finance, labor, and economic policy.

4075 American Economic History to 1860 (3) See HIST 4075.

4076 American Economic History, 1860 to the Present (3) See HIST 4076.

4110 Public Finance (3) Prereq: ECON 2010 and 2020; or 2030. Economic theory applied to the private market and to the public sector; public goods, efficiency, voting, externalities, principles of taxation, benefit-cost analysis, and policy analyses of current issues.

4120 Federal, State, and Local Taxation (3) Prereq: ECON 2010 and 2020; or 2030. Administration, fiscal importance, and economic effects of federal, state, and local taxes; emphasis on recent trends in taxation at each level of government and on significance of these trends for individuals and the nation.

4130 Urban and Regional Economics (3) Prereq: ECON 2010 and 2020; or 2030. Economic analysis of the location and growth of urban and regional areas; emphasis on urban policy issues; land-use patterns, measurement and change in regional economic activity, and urban problems such as transportation, housing, and poverty.

4210 Labor Economics (3) Prereq: ECON 2010 and 2020; or 2030. Causes of economic problems of American wage earners; attempts of wage earners and society to alleviate and solve these problems through organization and legislation.

4220 Wage and Employment Analysis (3) Prereq: ECON 2010 and 2020; or 2030. The labor market; labor supply and demand, human capital, racial and sex discrimination, effects of minimum wage laws, causes of various wage and employment differentials.

4320 The Economics of Population and Environment (3) Prereq: ECON 2010 and 2020; or 2030. Population growth, economic growth, depletion, and pollution in developed and underdeveloped countries; principles of demography and resource management; cost-benefit analysis and literature on externalities; problems of reconciling economy of man and ecology of nature.

4325 Applied Resource Economics (3) Prereq: ECON 2010 and 2020; or 2030. Analysis of environmental and resource problems; cost-benefit and other empirical techniques used to examine these problems.

4400 Industrial Organization and Public Policy (3) Prereq: ECON 2010 and 2020; or 2030. Application of price theory tools to public policy questions associated with industrial structure, conduct, and performance; monopoly, mergers, innovation, and economics of advertising.

4440 The Economics of Government Regulations (3) Prereq: ECON 2010 and 2020; or 2030. Economic bases, policies, and consequences of government regulation of economic activity.

4520 International Economics (3) Prereq: ECON 2010 and 2020; or 2030. Theory and policy of international trade and finance.

4540 Business Cycles and Forecasting (3) Prereq: ECON 2035 or 3500. Nature and causes of business cycles; practical application of methods used to forecast business trends.

4550 International Finance (3) Prereq: ECON 2035 or equivalent. International trade theory and practice; foreign exchange rates, instruments, and markets; alternative international currency systems and proposals for reform; the economics of currency and financial instrument futures markets.

4560 Central Banking and Monetary Policy (3) Prereq: ECON 2035 or 3500. History, economic functions, operating techniques, and policies of central banks; the role of monetary policy in promoting economic stability and growth; the Federal Reserve System and current problems of monetary policy and control.

4610 Introduction to Mathematical Economics (3) Prereq: ECON 2010 and 2020; or 2030; and college algebra, or equivalent. Not normally open to students who have had differential calculus. Mathematical techniques used by economists; their application to economic analysis.

4630 Introduction to Econometrics (3) Prereq: ECON 2010 and 2020; or 2030; MATH 1431 or equivalent; and QRA 2000 or equivalent. Not open to students with credit in ECON 7630. For students interested in a basic knowledge of econometrics. Techniques of econometrics; estimating the basic linear model and hypothesis testing; empirical illustrations by reference to contemporary economic questions.

4710 Aggregate Economic Analysis (3) Prereq: ECON 2035 or equivalent. Factors determining aggregate level of national income, employment, and prices; static Keynesian, monetarist, and supply-side models developed and compared.

4720 Intermediate Microeconomic Theory (3) Prereq: ECON 2010 and 2020; or 2030. Price determination, resource allocation, and pricing in a market economy.

4730 The Evolution of Economic Thought (3) Cultural and historical factors influencing different types of economic thought from the ancient world to the present.

5600 Microeconomic Theory for Policy Analysis (3) Also offered as PADM 5600.

5700 Macroeconomic Analysis and Issues (3) Open only to students in the M.B.A. program. Forces determining the magnitude of such variables as aggregate volume of an economy's output, volume of resource employment, size of national income, and general price level; emphasis on contemporary macroeconomic problems.

6500 Workshop on Economic Education (3) Su only For teachers with little or no previous training in economics. Basic economic principles and their application to the nation's current economic problems.

6550 Special Topics in Economic Education (1-3) May be repeated for a max. of 6 sem. hrs. credit. For teachers who wish to investigate more advanced economic concepts and issues. Specific economic topics.

7070 Theory of Economic Growth (3) Theories of economic growth and their development.

7130 Public Finance Theory (3) Foundations of welfare economics for evaluating efficiency and equity of taxation and public spending policies; incidence and optimality of taxation.
7135 Advanced Topics in Public Finance (3) May be taken twice for credit when topics vary. Special issues in taxation, public expenditures, and political economy.

7240 Seminar in Labor Economics (3) Theoretical and empirical effects of trade unions and other labor organizations on individuals, firms, government policies, and the economy.

7250 Wage and Employment Analysis (3) Neoclassical wage and employment theory and its application to the labor market; labor force participation rates; discrimination; labor markets, human capital, the inflation-unemployment trade-off.

7320 Seminar in Environmental and Resource Economics (3) Neoclassical and bioeconomic tradition of resource utilization; emphasis on biophysical underpinnings of economics drawing from thermodynamics, ecology, geology, and demography; ethical issues of stewardship in resource management; topical policy issues in energy, materials, food, and air and water pollution.

7325 Applied Resource Economics (3) Application of property rights, externalities, and benefit-cost analysis to resource management; measurement problems; intertemporal allocation, technical changes and resources substitution; and utilization of environmental resources.

7470 Economics of Regulated Enterprise (3) Economic analysis of problems and policies of regulated enterprises, with emphasis on philosophy of regulation, rate theories, earnings control, coordination, and national policy.

7480 Seminar in Industrial Organization (3) Organization of industry in the American economy; empirical and analytical techniques used to investigate structure and performance in the manufacturing sector of the economy.

7570 Seminar in International Finance (3) Selected topics.

7575 Seminar in International Trade (3) Prereq: ECON 4520 or equivalent. Topics in pure theory of international trade; causes and effects of international trade, gains from trade, theory of tariff and effective protection, economic growth and trade, intermediate products, optimal trade policies, factor market imperfections, theory of integration, and effects of uncertainty.

7580 Seminar in Economic Development (3) Prereq: consent of instructor. Third World development from neoclassical, neomarxist, and neomalthusian perspectives.

7590 Seminar in Monetary and Fiscal Policy (3) Determining, implementing, and evaluating monetary and fiscal policy; effect on the economy, monetary targets and indicators; role of interest rates in understanding monetary policy, sectoral impacts of monetary policy; role of fiscal policy in the economy.

7595 Seminar in Monetary Theory (3) Contemporary monetary theory; theories of supply and demand; integration of monetary and value theory; monetary equilibrium.

7610 Mathematics for Economists (3) Mathematical principles with frequent applications to economics; functions, derivatives, differentials, integrals, Taylor's series, matrix algebra, determinants, roots, quadratic forms, constrained and unconstrained optimizations, and principles of linear and non-linear equation systems.

7615 Dynamic Analysis (3) Prereq: ECON 7610 or calculus and linear algebra. Mathematical analysis of dynamic systems with applications to economics; integral calculus, differential equations, difference equations and optimal control theory.

7630 Econometric Methods (3) Prereq: calculus and linear algebra, or concurrent enrollment in economics 7610. For students interested in developing research skills in econometrics. Empirical research methods in economics; statistical inference; regression techniques applied to a general linear model; problems involved in regression analysis; extensions of the general linear model.

7631 Econometric Methods—II (3) Prereq: Econ 7630 or equivalent. Econometric techniques for heteroscedasticity, autocorrelation, simultaneous equations, pooling time series and cross-sectional data; model specification techniques.

7632 Econometric Theory —III (3) Prereq: ECON 7631 and either ECON 7610 or differential calculus and linear algebra. Emphasis on the pure theory of econometrics; properties of estimators, small sample properties of ordinary least squares, asymptotic distribution theory, generalized least squares and simultaneous equations.

7700 Price Theory—I (3) Development of microeconomic models of the individual firm, including a non-mathematical approach.

7710 Macroeconomics—I (3) Prereq: ECON 7610 or equivalent. Static models of income, employment, and prices; models include classical, neo-Keynesian, and monetarist; models focus on demand and supply sectors.

7715 Macroeconomics—II (3) Prereq: ECON 7710. Dynamic models of the economy; includes growth models, business cycle dynamics, and wage-price dynamics.

7720 Price Theory—II (3) Prereq: ECON 7610 or equivalent. Theories of utility, demand, cost, production, factor pricing, and welfare using an advanced mathematical approach.

7725 Advanced Microeconomic Theory (3) Prereq: ECON 7610 and 7720; or consent of instructor. Advanced price theory; capital theory, general equilibrium, distribution theory, market structures.

7740 History of Economic Thought—The Classical Period (3) Development of economics as an autonomous science; Greek, Judeo-Christian, and enlightenment approaches to economic phenomena; special attention to Adam Smith.

7750 History of Economic Thought—Modern Period (3) Development of economics from 1800 to 1900; emphasis on classical followers of Smith, Marx, 19th-century positivism and socialism, the marginal revolution.

7760 Managerial Economics (3) Practical applications of microeconomic theory; demand forecasting techniques, cost estimation, and analysis of market structures.

7799 Seminar in Advanced Economic Problems (3) May be taken twice for credit.

8000 Thesis Research (1-12 per sem.) 'S'/'U' grading.

8900 Predissertation Research (1-9) May be repeated for credit. Pass-fail grading.

9000 Dissertation Research (1-12 per sem.) 'S'/'U' grading.
2120 Circuits—I (3) Prereq: credit or registration in MATH 2090 and PHYS 2102; or consent of department. Time-domain analysis of electrical networks.


2230 Electronics—I (3) Prereq: EE 2120. Internal physical behavior and characterization of semiconductor devices and circuits.

2231 Electronics Laboratory—I (2) Prereq: concurrent registration in EE 2230. 1 hr. lecture; 2 hrs. lab.

2720 Digital Logic—I (2) Prereq: MATH 1550. Basic concepts of Boolean algebra and their applications in switching networks; switching functions; switching expressions and their manipulations; minimization methods, logic gates, and analysis and synthesis of combinational logic networks; design examples such as half and full adders, multiplexers, demultiplexers, encoders, and decoders; different families of basic memory elements.

2950 Comprehensive Electrical Engineering (3) Prereq: credit or registration in PHYS 2102 or equivalent. For non-electrical engineering majors. Elementary circuits, devices, and systems in electrical engineering.

3060 Special Projects (2) Prereq: consent of department. Pass-fail grading. Individual work with instructor on special project selected by instructor and student.

3120 Linear Systems Analysis (3) Prereq: EE 2120. Methods of analysis for time-invariant linear systems.

3140 Probability for Electrical and Computer Engineering (3) Prereq: EE 3120. Basic concepts of probability theory with application to electrical and computer engineering; probability axioms; continuous, discrete, and conditional probability density and distribution functions; expectations and characteristic functions; introduction to statistical inference and stochastic processes.

3220 Electronics—II (3) Prereq: EE 2130, 2230, and 2231. Analysis and design of electronic circuits; emphasis on semiconductor devices.

3221 Electronics Laboratory—II (2) Prereq: concurrent registration in EE 3220. 1 hr. lecture; 2 hrs. lab.

3320 Electric and Magnetic Fields (3) Prereq: MATH 2057. Maxwell’s equations; wave propagation and reflection in isotropic media; static fields.

3410 Electric Power (3) Prereq: EE 2130. Basic principles of electromechanical energy conversion and power system analysis.

3431 Electric Power Laboratory (2) Prereq: concurrent registration or credit in EE 3410; 1 hr. lecture; 2 hrs. lab.

3720 Digital Logic—II (2) Prereq: EE 2230 and a grade of “C” or better in EE 2720. Mealy and Moore models for finite state machines; analysis and synthesis of synchronous and asynchronous sequential machines; practical design considerations such as various logic families, races and cycles, and hazards.

3721 Digital Logic Design Laboratory (2) Prereq: EE 2231 and credit or registration in EE 3720. 1 hr. lecture; 2 hrs. lab. Familiarization with conventional logic gates and flip-flops; design and testing of various combinational and sequential digital systems.

3750 Microprocessor Systems (2) Prereq: CSC 1250 and EE 3720. Theory and design of microprocessors; semiconductor technologies, architectures, assembly language, software development, input/output design, applications, and interfacing.

3751 Microprocessor Laboratory (2) Prereq: credit or registration in EE 3750. 1 hr. lecture; 2 hrs. lab.

3770 Software Systems and Computer Organization (3) Prereq: CSC 1251 and EE 2720. Fundamentals of computer organization and software; organization, instructions, assembly language, Pascal programming, I/O and data structures.

3950 Electronics (2) Prereq: EE 2950. For non-electrical engineering majors. Basic electronics and instrumentation.

3951 Electrical and Electronics Laboratory (2) Prereq: credit or registration in EE 3950 or equivalent. 1 hr. lecture; 2 hrs. lab. For non-electrical engineering majors. Basic electrical and electronics laboratory.

4000 Special Topics in Electrical Engineering (3) May be taken twice for credit when topics vary. Students in curricula other than electrical engineering should consult the instructor. Selected topics of current interest.

4120 Network Analysis (3) Prereq: EE 3120 and MATH 2057. Linear networks, with introduction to filters and network synthesis.

4130 Graph Theory (3) Prereq: EE 3120 or equivalent. Graph and subgraph properties, graph operations, enumeration techniques, and applications to analysis and synthesis of electric networks; Kirchoff’s third and fourth laws.

4150 Digital Signal Processing (3) Prereq: EE 3120 or equivalent. Fundamentals of processing signals by digital techniques; application to practical problems; z-transforms, discrete Fourier transform, digital filter design techniques, and fast Fourier transform.


4240 Linear Circuit Design (3) Prereq: EE 3220 and 3221. 2 hrs. lecture; 2 hrs. lab. Fabrication and use of discrete and monolithic integrated circuits; use of building blocks necessary for design of analog systems.

4250 Digital Integrated Circuits (3) Prereq: EE 3220. Operation of logic gates in a variety of digital integrated circuit logic families, both bipolar and MOS; semiconductor memories and their operations.

4260 Semiconductor Measurements and Characterization (3) Prereq: consent of department. 2 hrs. lecture; 2 hrs. lab. Properties of semiconductor materials; their influence on device characteristics; bulk measurements such as resistivity, mobility, and lifetime; diffusion profiles and oxide layers; thin film characterization techniques; I-V and C-V measurements; emphasis on silicon.

4270 Optical Electronics (3) Prereq: EE 3320 or equivalent. Interaction of optical radiation with various media; theory of laser oscillations and specific laser systems; modulation and detection of optical radiation; applications.

4320 Microwave Engineering (4) Prereq: EE 3320 or equivalent. 3 hrs. lecture; 3 hrs. lab. Waveguides, cavities, signal sources, and other microwave devices.

4330 Antenna Theory and Design (4) Prereq: EE 3320 or equivalent. 3 hrs. lecture; 3 hrs. lab. Antennas and antenna
arrays; measurement of impedances and far-zone radiation patterns.

4540 Fiber Optic and Microwave Propagation (3) Prereq: EE 3320 or equivalent. Wave propagation at microwave and optical frequencies in metallic waveguides and optical fibers.

4420 Electric Machine Analysis (3) Prereq: EE 3410 or equivalent. Generalized theory of electric machinery; transient and steady-state analysis of symmetrical/unsymmetrical electric machines.

4430 Power System Analysis (3) Prereq: EE 3410 or equivalent. Power system analysis using computer methods; power flow, economic power dispatch, and faults.

4450 Distribution System Design (3) Prereq: EE 3410 or equivalent. Power distribution systems; emphasis on design and applications.

4460 Power Electronics (3) Prereq: EE 3220 and 3410. 2 hrs. lecture; 2 hrs. lab. Design of power semiconductor converters including controlled rectifiers, inverters, ac voltage regulators, and dc-dc converters.

4510 Introduction to Control Systems (3) Prereq: EE 3120. State variable modeling of linear systems; relation to transfer functions; stability and transient analysis; realization and use of simulation packages.

4580 Topics in Control System Design (3) Prereq: credit or registration in EE 4510. Compensation of single loop and multiloop systems; state estimation; stability; application to industrial controllers; design using computer simulation packages.

4620 Communications (3) Prereq: EE 2231 and 3120. Transmission of signals through linear networks; time-bandwidth relationships; conventional modulation and demodulation techniques; sampling and reconstruction of sampled waveforms; pulse modulation systems; noise and its effect on data transmission systems.

4640 Random Processes I (3) Prereq: EE 3140 or graduate standing. Random variables, random vectors, functions of random vectors, expectation, random processes, autocorrelation functions, power spectral density, filtering.

4700 Special Topics in Computer Engineering (3) May be taken twice for credit when topics vary. Students not in the computer engineering option should consult the instructor. Selected topics of current interest.

4710 Communications in Computing (3) Prereq: MATH 1552. Also offered as CSC 4310. Theoretical and practical factors in designing computer communications networks; communication principles and codes; network topology and architecture; protocol layers; current and advanced applications.

4730 Structure and Design of Digital Computers (3) Prereq: EE 3750, 3751, and credit or registration in EE 3770. Design of digital computers; hardware concepts of digital systems including logical functions of hardware components, machine organization, register-transfer level of digital systems, control strategies, and memory and peripheral devices.

4750 Digital Systems (3) Prereq: EE 3750, 3751, and credit or registration in EE 3770. 2 hrs. lecture; 3 hrs. lab. Theory and design of digital systems.

4770 Real Time Computing Systems (3) Prereq: EE 3750, 3751, and credit or registration in EE 3770. Real time computing systems; systems components, architectures, I/O structure, interrupts, interfacing, A/D converters, and multitasking.

4780 Introduction to Computer Vision (3) Prereq: EE 3750 or equivalent. Computer processing of images, including image acquisition systems and computer systems for processing images; preprocessing techniques; image segmentation; emphasis on design of image processing software.

4785 Introduction to Expert Systems (3) Prereq: EE 3750 or equivalent. Introduction to expert systems, including rule-based systems; search strategies; representation and logic programming.

4790 Structure of Computers and Computations—I (3) Prereq: CSC 3102 and EE 4730. Hardware and software complexity analyses; structures of both computers and computations.

7000 Advanced Topics in Electrical Engineering (3) May be taken 3 times for credit when topics vary.

7091, 7092 Electrical Engineering Research (3, 3) Prereq: completion of 12 sem. hrs. in the graduate program. Pass-fail grading. Individual study.

7110 Network Analysis and Synthesis (3) Prereq: EE 3120 or equivalent. Network analysis and synthesis, network graph theory, state variable representation of networks, computer-aided analysis and design.

7120 Linear Active Network Analysis and Synthesis (3) Prereq: EE 3120 or equivalent. Active network analysis and design, multiport networks, pathological elements, inductorless filter theory.


7150 Theory and Application of Digital Signal Processing (3) Digital filter design, spectrum analysis, digital hardware implementations, and applications.

7210 Semiconductor Device Modeling (3) Systematic modeling of active and passive solid-state devices; modeling theory to relate device physics to circuit performance; selected circuit applications.

7220 Semiconductor Devices—I: Bipolar (3) Prereq: EE 4230 or equivalent. Semiconductor materials properties, equilibrium and nonequilibrium processes, physical principles of p-n junctions, and quasi-neutral material; modeling of diodes and bipolar transistors.

7222 Semiconductor Devices—II: Field Effect (3) Prereq: EE 4230 or equivalent. Surface effects; metal-insulator-semiconductor structures; modeling of MOS capacitors and IGFETs.

7230 Physics of Device Electronics (3) Semiconductor physics and necessary assumptions for tractable device analysis; elements of statistical physics, transport phenomena in solids, band theory of solids, and semiconductor junctions.

7240 Integrated Circuit Engineering (3) Fabrication processes and device design for monolithic integrated circuits; relation to circuit performance; thin- and thick-film circuits.

7242 VLSI Systems (3) Prereq: consent of instructor. Design and implementation of very large scale integrated systems; structured design methodology using MOS technology.

7250 Semiconductor Power Devices (3) Prereq: EE 4230 or equivalent. Operation and characteristics of semiconductor energy conversion devices with emphasis on physical mechanisms involved; fabrication of energy conversion devices.

7260 Semiconductor Materials (3) Theory and application of crystal growth from melt and chemical vapor deposition; preparation and purification of elemental and compound semiconductors; structural properties and their effect on electrical and physical parameters; amorphous semiconductors.
7270 Magnetic Materials and Devices (3) Prereq: EE 3320 or equivalent. Theory of magnetism, domain structures, and magnetic memory; current developments and applications of magnetic devices.

7310 Electromagnetic Theory and Techniques (3) Electromagnetic theory applied to radio propagation, waveguides, and microwave systems.

7350 Boundary Value Problems in Engineering (3) Prereq: consent of instructor. Separation of variables method for solving certain classical partial differential equations, including properties of special functions and their applications to engineering problems.

7410 Faulted Power System Analysis (3) Development of positive, negative, and zero sequence parameters of power system components and their application in a variety of power system fault conditions.

7420 Power System Dynamics (3) Modern approach to power system transient and dynamic stability studies; detailed synchronous machine models; their linearizations, excitation systems, and multimachine system stability analysis.

7430 Power System Reliability (3) Reliability analysis of power systems, including generation, transmission, and distribution.

7440 Power Transmission and Control (3) Prereq: EE 4460 or equivalent. Analysis of HVDC transmission systems; high power switches and limitations; converter circuits, modeling control, and stability analysis of dc transmission; misoperation of converters; protection, harmonics, and filters.

7450 Power System Protection (3) Identification of conditions requiring protection; special problems associated with protection of various system components; protection devices, and their application.

7460 Static Power Converters (3) Prereq: EE 4460 or equivalent. Design of power converters and ac drives, including voltage controllers, PWM inverters, cycloconverter and switched-mode power supplies.

7470 Power Generation and Control (3) Prereq: EE 4430 or equivalent. Economic dispatch for thermal and hydroelectric power generation systems; control of power generation.

7510 Advanced Control Systems (3) Prereq: EE 4510 or equivalent. State variable and function analytical methods for study of discrete and continuous time systems; canonical forms, controllability, observability, and system identifica tion; design of state variable feedback controls and state observers; optimal regulator problems.

7520 Optimal Control Theory (3) Prereq: EE 4510 or equivalent. Dynamic optimization applied to control systems; minimum principle, Hamilton-Jacobi-Bellman theory, dynamic programming, gradient algorithms, and functional analytic methods.


7560 Topics in Modern System Science (3) Prereq: EE 7510 or equivalent. Research literature, operator theory applied to engineering problems; resolution spaces, causality theory, polynomic systems; application to optimal control and sensitivity problems.


7580 Computer Process Control (3) Prereq: EE 4580. Theory and equipment for the implementation of computer-based control systems; includes supervisory, DDC, and hierarchical configurations, process and operator interface, real-time operations, industrial computer control systems; implementation of advanced control algorithms, time series analysis, and online process optimization.

7610 Analog Communication (3) Prereq: EE 4640 or equivalent. Random waveforms, receiver design, linear and nonlinear modulation; pulse modulation.

7620 Digital Communication (3) Prereq: EE 4640 or equivalent. Optimal receiver principles and design; modulation schemes; digital coding of information; transmission requirements; channel capacity and cutoff rate; intersymbol interference; fading, spread-spectrum systems.

7630 Detection and Estimation Theory (3) Prereq: EE 4640 or equivalent. Hypothesis testing, detection of known and unknown signals, estimation of signal parameters, signal resolution.

7640 Information Theory, Coding, and Cryptography (3) Measures of information, channel capacity, Shannon and Huffman coding, rate-distortion theory, linear codes, cyclic codes, BCH and Goppa codes, convolutional codes, problems of data security, probabilistic ciphers, computational complexity ciphers.

7650 Computer Communications (3) Prereq: EE 7620 or equivalent. System design, optimal file allocation, scheduling, queueing and delays in time-shared systems, interfacing, asynchronous TDM, the ARPA network, the Aloha system.


7700 Advanced Topics in Computer Engineering (5) May be taken 3 times for credit when topics vary.

7710 Advanced Digital Logic (3) Prereq: EE 3720 or equivalent. Mathematical foundations of Boolean algebra; vector switching functions, Boolean differential calculus, and fault detection.

7720 Digital System Architecture (3) Prereq: EE 4730 or equivalent. High performance computer architecture including pipelining techniques, high speed memory systems, vector processors, parallel processing, and interconnection networks.

7730 Image Analysis—I (3) Prereq: EE 3120 or equivalent. Basic fundamentals and techniques of digital image processing: hardware and software, applications, 2D transforms, preprocessing, texture analysis, and edge detection; emphasis on application of theory to practical problems.

7740 Image Analysis—II (3) Prereq: EE 4640 and 7730. Continuation of EE 7730; formal mathematical treatment of image segmentation, shape analysis, texture analysis, and scene analysis.

7750 Machine Recognition of Patterns (3) Prereq: EE 4640 or equivalent, and knowledge of programming language. Decision functions; Bayesian decision theory; cluster analysis; design of deterministic, stochastic, and fuzzy classifiers; unsupervised learning; feature selection; and other topics.

7760 Reliable Design of Digital Systems (3) Prereq: EE 3720 or equivalent. Test generation for combinational and sequen-
tial circuits, self-checking circuits, fault tolerant design, design for testability, and topics in LSI testing.

7780 Software Design Principles (3) Prereq: EE 3770 or equivalent. Engineering approach to computer software development; structured and modular programming concepts; software design and management; program testing and correctness proofs; diagnostic tools; software measures; other topics from software engineering.

**ENGINEERING (ENGR)**

1049 Engineering, Man, and Energy (3) Basic engineering; technological developments related to discovery, transmission, conversion, and utilization of various types of energy.

3049, 3050 Engineering Practice (1-3, 1-3) Su only Prereq: consent of instructor. Pass-fail grading. Minimum of 6 weeks

**ENGINEERING GRAPHICS (EGR)**

1001 Engineering Graphics (2) 6 hrs. lab. Conception, visualization, and communication of creative design concepts; effective use of conventional drawing practices, simplified drafting, and the USA Standards Institute standards employing freehand sketches of pictorials and reading-of-view drawings; three-dimensional forms used in solution of engineering and scientific problems and creative design.

1004 Graphical Communications (3) 9 hrs. lab. Analytical and graphical presentation of engineering data, vector quantities, empirical equations, functional scales, and nomography; utilization of microcomputers in solution of basic engineering problems; DOS, BASIC programming, and word processing.

2154 Engineering Graphics (2) Prereq: EGR 1001. Spatial relationships; application of primary and successive auxiliary views to solution of engineering and scientific problems employing uses of points, lines, and planes; creative design concepts.

2162 Machine Drawing (2) Prereq: EGR 1001. 6 hrs. lab. Positional tolerances, limits and dimensioning standards, conventional practices, fastenings, pictorial and orthographic design sketching; empirical design; creative design, visual aids, analysis and synthesis, machine concepts.

2185 Automated Graphics for Designers (3) Prereq: CSC 1240 or equivalent, and eligibility for MATH 1550. 2 hrs. lecture; 3 hrs. lab. Also offered as ARCH 2173. Use of automated graphical techniques in design and design communication.

3105 Piping Drafting (2) Prereq: EGR 1001. 6 hrs. lab. Development and layout of piping systems applicable to petrochemical industry; plans, elevations and sections of piping of full-time employment by an industry participating in the summer program. Same as AGE 3249, 3250, CHE 3249, 3250, and ME 3249, 3250. Selected engineering problems in an industrial environment.

9000 Dissertation Research (1-12 per sem.) 'S'/-'U' grading.

**ENGLISH (ENGL)**

Students who are not exempt will be required to pass one, two, three, or four freshman composition courses. Placement level depends on ACT scores, the diagnostic theme, and any prior college credit. Required courses must be taken progressively, but students demonstrating exceptional progress in completing 0004 or 0006 (or 0001) may be permitted to skip 1004 or 1001, respectively.

The completion of English 1002 or its equivalent (English 1003 for honors students, English 1005 for international students, or approved transfer credit) is required of all students and is prerequisite to all other English courses.

0001 English Composition (3) For students whose diagnostic tests indicate the need for intensive work in basic writing skills. Not for degree credit. For continuing education students only, unless by special permission.
0003 English Composition (5) For students whose diagnostic tests indicate the need for intensive work in basic English skills. Pass-no credit grading. Not for degree credit. Writing the sentence, paragraph, and essay, accompanied by exercises and readings.

0004 English Composition (5) For international students whose diagnostic tests indicate the need for intensive work in basic writing skills. Pass-no credit grading. Not for degree credit. Required during the first semester of residence for all international students (graduates, undergraduates, and transfer students) who are not excused on the basis of the placement examination required of every new international student.

0006 English Composition (5) Prereq: ENGL 0003 or placement by department. For students whose diagnostic tests indicate the need for enhancement of basic English skills. Pass-no credit grading. Not for degree credit. Writing the paragraph and essay, accompanied by exercises and readings.

1001 English Composition (3) Prereq: ENGL 0001 or 0006 or placement by department. Introduction to writing in simpler forms of expressive and informative discourse.

1002 English Composition (3) Prereq: ENGL 1001 or placement by department. An honors course, ENGL 1003, is also available. Introduction to writing persuasive, evaluative, and other forms of argumentative discourse.

1003 HONORS: English Composition (3) Same as ENGL 1002, with special honors emphasis for qualified students.

1004 English Composition (3) Prereq: ENGL 1004 or placement by department. For international students. Same as ENGL 1001, with emphasis on usage and idiom problems specific to international students. Required during the first semester of residence for all international students (graduates, undergraduates, and transfer students) who demonstrate on the placement examination need for work in English, but not at the intensive level of ENGL 0004. Graduate students graded pass-no credit.

1005 English Composition (3) Prereq: ENGL 1004 or placement by department. For international students. Same as ENGL 1002, with continued work on problems specific to international students. Graduate students graded pass-no credit.

2001 Advanced English Composition (3) Credit will not be given for both ENGL 2001 and ENGL 3101. Theory and practice of exposition, description, and narration.

2002 Business Writing (3) Credit will not be given for both ENGL 2002 and 2102. Preparing business documents such as reports, articles, and letters.

2005 Introduction to Writing Short Stories (3) Prereq: consent of instructor. Writing short stories for workshop criticism; practice in techniques of using point of view, dialogue, setting, and characterization.

2007 Introduction to Writing Poetry (3) Prereq: consent of instructor. Writing poems for workshop criticism; practice in both open and closed forms; emphasis on contemporary techniques and prosody.

2008 Introduction to Writing Drama (3) Prereq: consent of instructor. Writing plays for workshop criticism; practice in techniques of exposition, characterization, and dramatization.

2010 Descriptive English Grammar (3) Analysis of the sentence from the perspective of transformational grammar; various approaches to the study of language.

2012 English Usage (3) Grammar, pronunciation, and vocabulary; language change and contemporary variation; role of dictionaries; relationship of aesthetic prejudices and social attitudes to matters of usage.

2020 A Survey of English Literature from the Beginnings to 1798 (3) An honors course, ENGL 2021, is also available.

2021 HONORS: A Survey of English Literature from the Beginnings to 1798 (3) Same as ENGL 2020, with special honors emphasis for qualified students.

2022 A Survey of English Literature from 1798 to the Present (3) An honors course, ENGL 2023, is also available.

2023 HONORS: A Survey of English Literature from 1798 to the Present (3) Same as ENGL 2022, with special honors emphasis for qualified students.

2025 Introduction to Fiction (3) An honors course, ENGL 2026, is also available. Study of the short story and the novel.

2026 HONORS: Introduction to Fiction (3) Same as ENGL 2025, with special honors emphasis for qualified students.

2027 Introduction to Drama and Poetry (3) An honors course, ENGL 2028, is also available. Study of plays and poems.

2028 HONORS: Introduction to Drama and Poetry (3) Same as ENGL 2027, with special honors emphasis for qualified students.

2070 Major American Writers (3) Important authors from Irving to Hemingway.

2076 Contemporary American Fiction (3) American writers of fiction since 1950.

2085 Science Fiction Studies (3) Science fiction literature, particularly that of the 20th century.

2086 Fantasy Literature (3) Variety of literary types employing conventions of the fantastic; uses of older literatures in modern fantasy novels; themes such as quest for identity, ideal of the hero, and nature of good and evil.

2102 Business Writing for International Students (3) Credit will not be given for both ENGL 2002 and 2102. Preparing business documents such as reports, articles, and letters; oral presentation of reports.

2120 Special Topics in Literature and Language (3) May be repeated for credit. Consult department each semester for topic to be offered.

2148 Shakespeare (3) The more popular plays.

2174 20th-Century African-American Literature (3) Major figures of 20th-century black American literature, including writers of fiction, poetry, drama, and essays; influence of genre on the articulation of common political and social themes.

2231 Reading Film as Literature (3) Introduction to film as literature; mastery of film language and literary bases; fictional narrative and drama; film classics.

2423 Introduction to Folklore (3) Also offered as ANTH 2423. Folklore genres of the world; sources of folklore; literary, psychological, sociological, anthropological, and historical approaches to folk material; relationships between folklore and written literature.

2593 Introduction to Women’s Studies (3) Issues in gender theory introduced through historical survey, selections from contemporary theorists, and examples of expressive culture; traditional literature, popular genres such as diaries, and the plastic arts.

2920, 2921, 2922 Independent Work (1, 1, 1) Prereq: sophomore standing and an average of not less than 2.00 in all previous English courses. Consult department before registering. Reading, conferences, and reports under departmental faculty direction.
2925, 2927, 2929 HONORS: Independent Work for Honors Students (1, 1, 1) Prereq: sophomore standing, completion of ENGL 2021 and 2023 or 2026 and 2028 with a grade of "B" or better, and a gpa of at least 3.00 in all work taken. May not be taken by students who have already completed ENGL 2920, 2921, 2922. Consult department before registering. Reading, conferences, and reports under departmental faculty direction.

3000 HONORS: Honors Thesis (3) Conclusion of the English honors program; for details, consult the department.

3001 Writing Professionally in the Arts and Social Sciences (3) Credit will be given for only one of the following: ENGL 3001, 3002, and 3102. Practice in writing common to the arts and social sciences; includes proposals, research studies, and reports.

3002 Technical and Professional Writing (3) Prereq: credit or concurrent registration in one 3000 or 4000 level course in the major field or equivalent. Degree credit will not be given for both this course and ENGL 3001, 3102. Training in skills required of practicing scientists, engineers, and technical managers.

3012 Social Dialects in American English (3) Prereq: ENGL 2010 or COMD 2050 or equivalent. Sociolinguistic variation; social status, style, age, sex, and ethnicity; socially diagnostic phonological and grammatical features; relationship between social dialects and education.

3014 The Sound System of English (3) Prereq: ENGL 2010 or COMD 2050 or equivalent. Phonological properties of English; phonetic and phonemic inventories, feature analysis, and rules; regional and social dialect variation, first and second language learning, communication disorders, and spelling.

3015 Composition Tutoring (3) Prereq: consent of instructor. 1 hr. lecture; 6 hrs. lab. Composition theory as applicable to undergraduate tutoring.

3033 Satire (3) Reading and analysis of satiric literature, chiefly English and American; old and middle English, Latin satire, and theories of satire; writers such as Aristophanes, Juvenal, Swift, Pope, Mark Twain, Vonnegut, and Waugh.

3101 Legal Writing (3) Credit will not be given for both this course and ENGL 2001. Discussions and writing assignments tailored to forms of writing common in law and in law-related fields; emphasis on writing clear, precise, effective prose.

3102 Technical Writing for International Students (3) Credit will not be given for both this course and ENGL 3001, 3002. Training in skills required of practicing scientists, engineers, and technical managers.

3124 The Literature of the English Bible (3) Literary themes and forms in the King James version; particular reference to the literary influence of the Bible on later literature.

3210 Studies of Major Writers (3) May be taken twice for credit. Writers selected for study will vary. Consult department for topic to be offered. Study of two or three important writers, not limited to a single literary period.

3220 Major Themes in Literature (3) May be taken twice for credit. Consult department for topic to be offered. Examination of a particular theme (e.g., revolution, quest, or spiritual crisis) in the works of several authors crossing historical and cultural boundaries.

3232 Literature and Psychology (3) Insights of psychology and psychiatry related to such works as Oedipus Rex, Hamlet, Heart of Darkness, and Light in August; special attention to psychological patterns implicit in the texts, to the psychology of authors as it may influence their work, and to the psychology of readers as it may influence their interpretations.

3236 Literature and Religion (3) Comparative analysis of world views in representative works of Western literature; theory and practice of the religious interpretation of literary texts. Writers studied may range from Aeschylus to Dante, Shakespeare, Melville, and Walker Percy.

3401 The Study of Folklore (3) See ANTH 3401.

3593 Literature and Gender: A Survey (3) Subject may vary. Significance of gender for the author, the reader, and the literary work itself; connections between texts and society; literary influences and relations between mainstream and non-traditional literature.

3820, 3821, 3822, 3823, 3824, 3825 HONORS: Honors Seminar (3 each) Normally open only to juniors and seniors with consent of instructor and on completion of either ENGL 2021 and 2023 or 2026 and 2028. Subject matter and instructor vary; additional details available from department.

3920 Independent Study (1-3) May be repeated for credit for a max. of 3 hrs. Readings, reports, and conferences under departmental faculty direction.

4000 Major Project for Creative Writing Majors (3) Prereq: consent of instructor.

4001 Writing Essays and Reviews (3) Prereq: consent of instructor on the basis of submitted work. Essays and reviews as literary forms, with guided practice in writing both.

4002 Scientific and Professional Writing for Peers (3) Individual instruction. Students must have well-defined projects. Principles and practice of effective research writing in academic and professional settings; emphasis on translating research results into publishable articles and effective grant proposals.

4005 Short Story Writing (3) Prereq: consent of instructor. Guided practice in short story writing; techniques involved.

4006 Writing the Novel (3) Prereq: consent of instructor. Guided practice in writing the novel; techniques involved.

4007 Writing Poetry (3) Prereq: consent of instructor. Guided practice in writing poetry; techniques involved.

4008 Writing Drama (3) Prereq: consent of instructor. Guided practice in writing plays; techniques involved.

4100 Introduction to Linguistics (3) Historical, geographical, and structural linguistics.

4111 History of the English Language (3) Development of the language from Old English times to the modern English period.

4112 The Contemporary English Language (3) Structure of the English language and its application in the classroom.

4133 Semantics and Rhetoric (3) Word meanings and classification of modes of discourse.

4144 Generative Phonology (3) Prereq: ENGL 4010 or COMD 4150 or equivalent. Basic principles of phonological analysis within the transformation-generative paradigm; emphasis on analytical procedures and problem solving.

4151 Linguistic Semantics (3) Prereq: ENGL 2010 or 4010 or 4012 or equivalent. Theories of lexical and sentential meaning within the paradigm of transformational-generative grammar.

4196 Linguistics and Literature: An Introduction to Literary Style (3) Analysis of the language of literature from a linguistic point of view; emphasis on concept of style as choice and on the orientation of reader in the work.

417 Technical Editing (3) Prereq: ENGL 3001 or 3002 or equivalent. Practical experience in editing and preparing tech-
4018 Regional Dialect in English (3) Prereq: consent of instructor. Regional variation in Britain and the United States, including Louisiana; emphasis on methods of dialect study, and diversity of sound, grammar, and vocabulary in language as revealed in major projects and publications in dialect geography.

4024 Literary Criticism (3) Some of the more important literary critics down to approximately 1900; application of critical principles and techniques to selected literary works.

4030 Medieval Literature in Translation (3) Masterpieces of medieval literature; characteristics and development of such major genres as epic and romance; attitudes toward such issues as the nature of the hero and heroism, love and loyalty, and conflicting forces of destiny and will.

4040 The Age of Elizabeth—Poetry and Prose of the Early Renaissance (3) Sidney, Shakespeare, Spenser, Thomas More, and others; selected genres and topics, such as psychology of love and quest for utopia.

4041 Donne, Jonson, and their Contemporaries (3) Metaphysical poetry, early neoclassical poetry, and the prose of the age; effects of political, religious, and scientific tensions on the literature; the baroque element in 17th-century poetry and prose; the search for transcendence.

4044 Backgrounds of the English Renaissance (3) Origins and ideals of the Renaissance; masterpieces in translation of such writers as Boccaccio, Cervantes, Machiavelli, and Erasmus.

4048 The Beginnings of the English Drama (3) English drama from the medieval cycle plays to Shakespeare; emphasis on plays of Christopher Marlowe.

4049 Drama of the Age of Shakespeare (3) Shakespeare's contemporaries and successors to 1642; major plays of Ben Jonson and the dramatists of the Jacobean "Lost Generation": Webster, Middleton, Ford, and others.

4050 The Age of Exuberance—I (3) Dryden and Swift and their friends and opponents; Restoration and early 18th-century writers such as as Rochester, Wycherley, Congreve, Addison, and Steele.

4051 The Age of Exuberance—II (3) Line of wit from Pope to Burke; 18th-century writers such as as Gay, Arbuthnot, Johnson, Boswell, and Sheridan.

4055 The English Novel (3) Development and characteristics of the English novel from its beginnings through Scott.

4060 Prose and Poetry of the Early Romantic Period (3) Writers of the pre-Romantic period; Wordsworth, Coleridge, and their circle; Scott.

4061 Later Romantic Writers (3) Emphasis on Byron, Shelley, and Keats; some attention to DeQuincey and Hazlitt.

4062 Tennyson, Browning, and Their Contemporaries (3) Writings of Tennyson, Browning, and four of their contemporaries—Macaulay, Carlyle, Newman, and Mill; nature of change and the impact of evolution and scientific theories on views of human potential and limitations; conflict between private wishes and social responsibilities.

4063 Arnold, Ruskin, and Their Contemporaries (3) Writings of Arnold, the Pre-Raphaelites, and some of their contemporaries; impact of the theory of evolution, upheaval in national and private life, and development of anti-Victorian decadence.

4065 The English Novel (3) The English novel from Scott to the present.

4070 American Literature (3) Literature of the U.S. from colonial beginnings to the Civil War.

4071 American Literature (3) Literature of the U.S. from the Civil War to the present.

4075 The American Novel to 1900 (3) Development of the American novel from its beginnings to 1900; emphasis on Hawthorne, Melville, Mark Twain, and the early James.

4076 The American Novel since 1900 (3) Development of the American novel from the turn of the century to the present; emphasis on Hemingway, Fitzgerald, and Faulkner.

4084 Modern Criticism (3) Documents of 20th-century criticism; application of critical principles and techniques to selected literary works.

4085 20th-Century Novel (3) The English and American novel; some attention to the novel on the Continent.

4086 The Short Story (3) Emergence and development of the short story form in relation to changing theories of technique and structure; readings may include representative tales by the early American masters (Irving, Poe, and Hawthorne) as well as works by later exponents such as de Maupassant, Chekhov, O. Henry, Crane, Lawrence, Joyce, and Faulkner.

4087 Modern Poetry (3) Dickinson, Hardy, Hopkins, Yeats, Pound, Eliot, Stevens, Ransom, Robinson, Frost, Hart Crane, Auden, Robert Lowell, and Dylan Thomas; some attention to other English and American poets from 1870 to the present.

4088 20th-Century Drama (3) Modern English and American drama.

4106 Forms of Prose Fiction (3) Fictional techniques in conventional and experimental short stories, novellas, and novels; elements of plot, characterization, theme, setting, and tone; formal analysis of literary texts related to specific problems of writing.

4107 Prosody and Poetic Forms (3) Representative forms of poetry from early sagas to contemporary free verse; relationship to principles of versification; some concurrent practice in writing poetry in specific forms.

4137 Chaucer (3) The Canterbury Tales.

4147 Milton (3) Poems with emphasis on Paradise Lost, Paradise Regained, and Samson Agonistes; various prose works.

4148 Shakespeare (3) The earlier plays and their background; some attention to Shakespeare's life and times.

4149 Shakespeare (3) The later plays; particular emphasis on the author's development.

4173 The Literature of the South (3) Southern writings from the beginnings to the present; considerable attention to the historical and cultural backgrounds.

4174 Afro-American Literature (3) Literature of the black experience in the U.S.

4187 Poetry After World War II (3) English and American poetry since World War II.

4231 Literature and Film (3) Aesthetics of literature and film; literary influences on form and structure of film; grammar of film; theory and practice of film criticism.

4475 American Folklore (3) Also offered as ANTH 4475. Folklore of the U.S., including regional, racial, ethnic, and occupational groups; relation of folklore to other aspects of American vernacular culture and to American literature.

4480 Folklore and Literature (3) Interrelationships between folklore and literature; use of the folklore by writers; similarities and differences between "oral literature" and "written literature."
written discourse; philosophical and practical aspects of theories of discourse as they shape our understanding of writing and the composition process.

7934 Studies in Middle English (3) May be taken twice for credit when topics vary.

7937 Beowulf (3)

7940 Studies in Nondramatic 16th-Century Literature (3) May be taken twice for credit when topics vary.

7941 Studies in Nondramatic 17th-Century Literature (3) May be taken twice for credit when topics vary.

7943 Studies in Shakespeare (3) May be taken twice for credit when topics vary.

7948 Studies in Pre-Shakespearean Drama (3) May be taken twice for credit when topics vary.

7949 Studies in Jacobean Literature (3) May be taken twice for credit when topics vary.

7950 Studies in the Nondramatic Literature of the Neoclassical Period (3) May be taken twice for credit when topics vary.

7960 Studies in the Romantic Period (3) May be taken twice for credit when topics vary.

7962 Studies in the Victorian Period (3) May be taken twice for credit when topics vary.

7970 Studies in American Literature: Colonial and Early National Periods (3) May be taken twice for credit when topics vary.

7971 Studies in American Literature: Later National Period (3) May be taken twice for credit when topics vary.

7973 Studies in American Literary Masters (3) May be taken twice for credit when topics vary.

7974 Special Studies in American Literature (3) May be taken twice for credit when topics vary.

7984 Seminar in Modern Criticism (3) May be taken twice for credit when topics vary.

7985 Seminar in Modern Fiction (3) May be taken twice for credit when topics vary.

7987 Seminar in Modern Poetry (3) May be taken twice for credit when topics vary.

7988 Seminar in Modern Drama (3) May be taken twice for credit when topics vary.

8000 Thesis Research (1-12 per sem.) "S'/'U" grading.

8900 Independent Study (1-3) May be repeated for a max. of 3 sem. hrs. in a master's program and 9 sem. hrs. in a doctoral program. Directed individual readings guided by the graduate faculty.

9000 Dissertation Research (1-12 per sem.) "S'/'U" grading.
4005 Insect Taxonomy (4) F-E Prereq: ENTM 2001. 2 hrs. lecture; 6 hrs. lab.


4010 Biological Control (3) S-O Prereq: ENTM 2001 or equivalent. 2 hrs. lecture; 3 hrs. lab. Practice and theory of biological control of insect pests and weeds.

4011 Biology and Management of the Honey Bee (3) S Prereq: ZOOL 1001, 1002; or BOTY 1001, 1002; or BIOL 1001, 1002, 1003, 1004 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Behavior, genetics, pollination, pathology, and practical management of honey bees for agricultural and scientific purposes.


4013 Aquatic Entomology (3) S-E Prereq: ENTM 2001 or equivalent. 2 hrs. lecture; 2 hrs. lab. Biology, ecology, classification, and importance of aquatic insects.

4014 Insect Morphology (3) F-O Prereq: ENTM 2001 or equivalent. 2 hrs. lecture; 3 hrs. lab.

4016 Introduction to Insect Physiology (3) S Prereq: 12 hrs. of ENTM or ZOOL; 1 yr. of organic chemistry or biochemistry. 2 hrs. lecture; 3 hrs. lab. Also offered as ZOOL 4016. Basic functions of insects; principles of physiology, including metabolism, growth, development, and chemical communication systems.

4017 Introduction to Insecticide Toxicology (3) F Prereq: ENTM 2001, 4016, and organic chemistry; or equivalent. 2 hrs. lecture; 3 hrs. lab. Principles of toxicology as they relate to insecticides; insects and man; bioassay, mode of action, metabolism, resistance, and selectivity.

7001 Principles of Insect Population Ecology (3) S-O Prereq: ENTM 2001, ZOOL 4153, or equivalent. 2 hrs. lecture; 3 hrs. lab.

7002 Plant Resistance to Arthropods (4) F-O Prereq: 9 sem. hrs. of entomology or equivalent. 2 hrs. lecture; 4 hrs. lab.

7004 Systematics (3) V Prereq: ENTM 4005 or equivalent. 2 hrs. lecture; 2 hrs. lab. Practices and underlying theories of biological systematics.

ENVIRONMENTAL STUDIES (ENVS)

1000 Environment and Technology: Perspective on Environmental Problems (3) Environmental quality problems involving water, air, and land; analysis of the interrelationships and nature of ecological stresses; society's response to such problems.

2144 Environmental Issues in Economics and Water Resources (3) Economic principles and control mechanisms governing man's interaction with the biosphere; engineering principles and technologies which transform the environment into commodities and unwanted waste; use cycles of water from its source through processing, reprocessing, use, reclamation, and disposal.

3110 Environmental Management Laboratory (3) 1 hr. lecture; 4 hrs. lab. Pass/Fail grading. Students assume roles of politicians, planners, industrialists, developers, pollution control officers, news reporters, and pressure groups; students interact, make decisions required of their particular roles, and observe results with the aid of computer simulation of an urban area.

4000 Environmental Engineering—I (3) Interactions between man and the physical world.

4010 Applied Ecology (2) F Prereq: minimum of 10 sem. hrs. of biological and/or physical science. The biosphere, air, land, and aquatic environments; development of alternative techniques for correcting environmental pollution; environmental risk assessment analysis and management.

4101 Environmental Chemistry (2) See CHEM 4150.

4141 Radioecology (3) F See NS 4141.

4149 Design of Environmental Management Systems (3) Environmental systems planning at local, national, and international levels; identification of system requirements and available resources; definition of constraints, establishment of
EPIDEMIOLOGY AND COMMUNITY HEALTH (ECH)

7001 Seminar: Veterinary Medical Sciences (1) May be repeated 8 times for credit. Topics of current interest in various disciplines of veterinary medicine.

7002 Veterinary Medical Research Techniques (1-4) May be repeated for a max. of 6 sem. hrs. credit. Specialized research techniques related to a specific discipline of veterinary medicine.

7003 Special Topics in Veterinary Medicine (1-4) Prereq: consent of instructor. May be repeated for credit for a max. of 8 sem. hrs. Topics of current interest in veterinary medicine.

7301, 7302 Principles and Methods of Epidemiology and Disease Control—I, II (4, 4) 7301 offered S; 7302 offered F Prereq: consent of instructor. ECH 7301 is prerequisite for ECH 7302. 3 hrs. lecture; 3 hrs. lab. Ecologic and epidemiologic concepts used in studying diseases in populations; epidemiologic methods, with laboratory exercises emphasizing problem solving; epidemiologic principles applied to disease control; planning, administration, and evaluation of disease-control programs.

7303 Applied Veterinary Preventive Medicine (3-5) V Prereq: ECH 7301, 7302, and consent of instructor. Principles of epidemiology and disease control applied to planning, administration, and evaluation of veterinary preventive medicine practice.

7304 Clinical Epidemiology in Companion Animal Practice (3) F-O Prereq: consent of instructor. Epidemiologic principles and disease control methods applied to companion animal practice; problem-oriented case studies on relation of patient and client to community.

7306 Veterinary Medicine and Community Health (3) S-E Prereq: consent of instructor. Legal basis for veterinary preventive medical practice; economic, aesthetic, cultural, and human health factors associated with maintenance of animals; use of community resources to improve animal health.

7307 Project Management (2) F-E Prereq: EXST 7005 or equivalent. 1 hr. lecture; 2 hrs. lab. Definition of aims and objectives in field research and investigations, financial and personnel management, communication of intentions and results, internal project control, liaison with other agencies, community acceptance, operational research, and organizational methodologies.

7308 Veterinary Economics (2) S-O Prereq: AGEC 4015 or 4083 or equivalent. 2 hrs. lecture; 1 hr. lab. Economic analysis of farm and national livestock disease problems, analysis of existing and past programs, and forecasting of projected animal health schemes.

7309 Control and Prevention of Poultry Diseases in Tropical Countries (3-5) V Prereq: consent of instructor. Environmental control, applied nutrition, and management in the occurrence of disease in commercial poultry under tropical conditions; review of significant conditions with specific reference to the epidemiology, diagnosis, and prevention of poultry diseases.

7310 Epidemiology and Control of Zoonotic Diseases (2) Prereq: consent of instructor. Ecology and epidemiology of major zoonoses; epidemiologic principles in control programs.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Predissertation Research (1-9) May be repeated for a max. of 9 sem. hrs. credit.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.
EXPERIMENTAL STATISTICS (EXST)

2000 Introduction to Microcomputers: Applications in Agriculture and Related Areas (3) F,S,Su Prereq: MATH 1021 or equivalent. 2 hrs. lecture; 2 hrs. lab Computer terminology; application of microcomputers to machinery use, chemical applications, nutrition, financial accounting, crop and livestock production, land rental, year-end reporting, financial reporting, letter writing; telecommunications with agricultural networks and main-frame computers; computer systems and commercial software used in agricultural fields.

2055 Introductory Statistical Theory (3) Su Prereq: MATH 1552 or equivalent. Concepts in statistical theory; probability, one- and two-dimensional random variables, expected values, and distributions.

2095 Introduction to Scientific Sampling (3) F Prereq: MATH 1021 or equivalent. 2 hrs. lecture; 2 hrs. lab. Concept of sampling; requirements for a valid sample, simple random sampling, stratified sampling, systematic sampling, cluster sampling.

2201 Introduction to Statistical Analysis (4) S 3 hrs. lecture; 2 hrs. lab. Completion of MATH 1015 or 1021 strongly recommended. See SOCL 2201. Variables used in sociological research, level of measurement, distributions, measures of association and correlation, simple linear regression, probability, sampling distributions, interval estimation and tests of hypotheses, and simple analysis of variance.

4001 Statistical Methods (4) F,S Prereq: MATH 1021 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EDAF 4006, EXST 4001, 4006, 4011. Statistical notations, statistical inference, simple analysis of variance and variance components, and linear correlation and regression.

4006 Applied Statistics in Education (3) V Credit will be given for only one of the following: EDAF 4006, EXST 4001, 4006, 4011. Same as EDAF 4006. Basic statistical methods; emphasis on statistical application and interpretation of educational phenomena.

4011 Statistical Analysis (3) V Prereq: MATH 1015 or equivalent. 2 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EDAF 4006, EXST 4001, 4006, 4011. Primarily for students in landscape architecture. Measures of central tendency and variation, hypothesis testing, point and interval estimation, measures of association, simple regression and correlation, and simple analysis of variance.

4055 Probability and Statistics (3) F Prereq: EXST 2055 or MATH 2057 or equivalent. Probability, random variables, discrete and continuous distribution functions; expected values, moment generating functions; functions of random variables.

4063 Field-Plot Technique (4) S See AGRO 4063.

4085 Seminar in Statistics (1) F,S,Su Prereq: consent of instructor. May be repeated for credit when topics vary. Topics not covered in other experimental statistics courses.

7003 Statistical Inference—I (4) V 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EDAF 7006, EXST 7003, 7004, 7005, 7006. Basic concepts of statistical models and sampling; descriptive and inferential methods; normal, t, chi-square, and F distributions; tests of hypothesis and estimation, analysis of variance, correlation, regression, and nonparametric chi-square tests. emphasis on social and behavioral sciences research problems.

7004 Experimental Statistics—I (4) F,S 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EDAF 7006, EXST 7003, 7004, 7005, 7006. Basic concepts of statistical models and use of samples; measures of variation and central tendency; normal, t, chi-square, and F distributions; test of hypothesis, analysis of variance, regression, and correlation; emphasis on laboratory-oriented sciences research problems.

7005 Statistical Techniques—I (4) F,S 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EDAF 7006, EXST 7003, 7004, 7005, 7006. Basic concepts of statistical models and sampling methods, descriptive statistical measures, distributions, tests of significance, analysis of variance, regression, correlation, and chi-square; emphasis on field-oriented life sciences research problems.

7006 Statistical Principles—I (4) F Prereq: EXST 4006 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EDAF 7006, EXST 7003, 7004, 7005, 7006. Same as EDAF 7006. Concepts of descriptive and inferential methods; correlation and regression; probability and sampling; normal, t, chi-square, and F distributions; hypothesis testing and interval estimation; analysis of variance; nonparametric chi-square tests; emphasis on educational research problems.

7011 Nonparametric Statistics (3) Su Prereq: EXST 7003 or 7004 or 7005 or 7006 or equivalent. Nonparametric one- and two-sample location and distribution tests including binomial, chi-square, Kolmogorov-Smirnov, Mann-Whitney U, Wilcoxon; analyses of variance including Cochran's Q, Kruskal-Wallis, Friedman; correlation and regression including Kendall's tau, Spearman's rho, and point biserial.

7012 Fundamental Sampling Techniques (3) V Prereq: EXST 7003 or 7004 or 7005 or 7006 or equivalent. Sample and stratified random sampling; ratio and regression estimation; cluster, multistage, and multiphase sampling procedures; systematic sampling; non-response and non-sampling errors; links between methodology and application emphasized.

7013 Statistical Inference—II (4) V Prereq: EXST 7003 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EDAF 7016, EXST 7013, 7014, 7015, 7016. Analyses of variance and experimental designs; completely randomized and complete block designs; arrangements of treatments; covariance analysis; multiple and curvilinear regression techniques with introduction to factor, cluster, path, and canonical correlation analyses; emphasis on social and behavioral sciences research problems.

7014 Experimental Statistics—II (4) F,S Prereq: EXST 7004 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EDAF 7016, EXST 7013, 7014, 7015, 7016. Multiple classification analysis of variance and covariance, individual degrees of freedom, factorial arrangement of treatments, and multiple regression; emphasis on science/laboratory research problems.

7015 Statistical Techniques—II (4) F,S Prereq: EXST 7005 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EDAF 7016, EXST 7013, 7014, 7015, 7016. Multiple classification analyses of variance and covariance, sampling designs, parameter estimation, multiple regression and correlation, tests of specific hypothesis, and factorial experiments; emphasis on field-oriented life sciences research problems.

7016 Statistical Principles—II (4) S Prereq: EDAF/EXST 7006 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EDAF 7016, EXST 7013, 7014, 7015, 7016. Advanced statistical
7022 Statistical Aspects of Quantitative Genetics (3) V Prereq: EXST 7014 or equivalent and knowledge of animal or plant breeding methods. Statistical aspects of quantitative inheritance; partitioning of variance; covariance among relatives; probability as applied to genetic systems; theory of in-breeding; estimation and testing of genetic parameters.

7023 Advanced Topics in Statistical Genetics (3) V Prereq: EXST 4055 and 7022. May be repeated for credit when topics vary. Topics of current interest in statistical genetics not covered in other experimental statistics courses.

7024 Biological Population Statistics—I (3) F Prereq: EXST 7015 or equivalent. Estimating parameters from naturally occurring populations; theoretical distributions, practical sampling problems, and presentation of specialized techniques such as use of quadrats, line transects, plotless sampling techniques, and change in ratio estimators including mark recapture and exploitation or catch per effort estimators.

7025 Biological Population Statistics—II (3) S Prereq: EXST 7024 or equivalent. Extensive development of quantitative population techniques; principles of model building and role of model building; community diversity indices.

7031 Experimental Design (3) S Prereq: EXST 7013 or 7014 or 7015 or 7016 or equivalent. Comparison of designs, models, and analyses; emphasis on factorial experiments, complete and incomplete block designs, and confounding.

7032 Survey Design (3) V Prereq: 7013 or equivalent. Comparison of experimental and quasi-experimental designs; repeated measures, covariance analysis, and confounding in factorial experiments; emphasis on social and behavioral science research problems.

7034 Regression Analysis (3) F Prereq: EXST 7013 or 7014 or 7015 or 7016 or equivalent; and knowledge of matrix algebra. Fundamentals of regression analysis, stressing an understanding of underlying principles; response surfaces, variable selection techniques, and nonlinear regression.

7035 Applied Least-Squares (3) S Prereq: EXST 7013 or 7014 or 7015 or 7016 or equivalent. Applications of least squares methods; usual constraints, no constraints, and means model constraints to unbalanced cross classified and nested data; emphasis on analysis of variance and covariance for fixed effects models.

7037 Multivariate Statistics (3) F Prereq: EXST 7013 or 7014 or 7015 or 7016 or equivalent; and knowledge of matrix algebra. Comparison of multivariate techniques and analyses; emphasis on discriminant analysis, factor analysis and principal component analysis, canonical correlation, cluster analysis, and multivariate analysis of variance.

7051 Applied Bayesian Inference (3) V Prereq: EXST 4055, and either EXST 7003 or 7004 or 7005 or 7006; or equivalent. Basic decision theory applications, useful sampling distributions and convenient priors, Bayesian statistical inference, and Bayesian analysis of multiple decision problems.

7061 Statistical Theory (3) S Prereq: EXST 4055 or equivalent. Estimation, hypothesis testing, multivariate concepts, contingency tables, analysis of variance, and statistical inference.

7062 Advanced Topics in Statistical Theory (3) Su Prereq: EXST 7061. May be repeated for credit when topics vary. Topics of current interest; emphasis on theoretical development of statistical methodology.

7083 Practicum in Statistical Consulting—I (2) F,S,Su Prereq: EXST 7013 or 7014 or 7015 or 7016. 4 hrs. ind. study. Pass-fail grading. May be repeated for credit. Supervised application of statistical techniques to research problems.

7084 Practicum in Statistical Consulting—II (2) F,S,Su Prereq: minimum of 20 sem. hrs. of graduate statistics courses. 4 hrs. ind. study. Pass-fail grading. Supervised experience in an agency, institution, or private organization in the application of statistical techniques to research problems.


7086 Advanced Seminar in Statistics (1) F,S,Su Prereq: consent of instructor. May be repeated for credit when topics vary. Topics not covered in other advanced experimental statistics courses.

7087 Advanced Topics in Statistics (1-3) Prereq: consent of instructor. May be repeated for credit when topics vary. Lectures on advanced topics in statistics not covered in other experimental statistics courses.

EXTENSION EDUCATION (EXED)

3010 Internship in Cooperative Extension Service (6) Su only. Open to selected students completing their junior year who are considering a career with the cooperative extension service. 7-week period of study, observation, and practicum in a parish Louisiana Cooperative Extension Service office plus a 2-week period of classes in extension education. Registration with special permission only.

4010 Cooperative Extension Work (3) F History, objectives, organization, relationships, and teaching processes in cooperative extension.

4011 Communications in Extension Education (3) F Synthesis and application of concepts and principles of communication in the extension educational program.

4025 Principles of Adult Education (3) S Nature and importance of adult education; social and psychological factors affecting adult motivation and learning; techniques for providing adult learning experiences.

4026 Informal Education Programs for Youth (3) S Organization, leadership, and evaluation of informal youth education programs.

4039 Topics in International Development (3) May be repeated for a max. of 6 hrs. credit when topics vary. Issues related to international development; emphasis on extension and non-formal education programs in third world countries.

7024 Comparative Extension Education (3) S Prereq: EXED 7222 or equivalent. Comparative analysis of systems of extension education on a world-wide basis.

7122 Program Development (3) F Concepts relating educational planning, planned change, and social change to development of effective extension education programs.

7222 Principles and Practices of Extension Education (3) S Prereq: EXED 7122 or equivalent. Learning and teaching concepts applied in the execution of an extension educational program.
7622 Evaluation Methods (3) F,Su Concepts and principles of evaluation applied to programs in extension education.

7773 Leadership and Organization (3) S Application of relevant principles from leadership theory, group dynamics, social organization, and organizational administration to problems of organizing extension education programs.

7822 Advanced Extension Education (3) S Integration of relevant concepts, principles, and research findings in program development, leadership and organization, learning and teaching, and evaluation.

7824 Independent Study in Extension Education (3) May be taken twice for credit. Independent study under the guidance of the graduate faculty.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Research Problems (1-6) Prereq: EXED 7036 and a basic graduate-level statistics course. May be repeated for credit for a max. of 6 sem. hrs. Research problems in programming, teaching, leadership, organization, or evaluation of extension programs.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

FINANCE (FIN)

In the Department of Finance, the second digit of the course number denotes the subject area of the course, as follows: 2—business law; 3—real estate; 4—risk and insurance; 6—finance (capital markets and financial institutions); 7—finance (financial management); 8—finance (investment analysis/ portfolio theory); 9—general courses.

Prerequisites for any finance course may be waived with the approval of the department chairman.

See "Economics" for courses in international trade and money and banking.

3200 Introduction to Law (3) Not open to students in the College of Business Administration. Credit will not be given for both this course and FIN 3201 and 3202. Fundamentals of the American legal system; basic principles of the law of contracts, commercial paper, agency, partnerships, corporations, torts, and crimes; case materials used to demonstrate legal analysis and reasoning.

3201 Business Law (3) Credit will not be given for both this course and FIN 3200. Development of Anglo-American common law, the American constitutional system, and the Louisiana civil law system; law of contracts and agency; social and ethical facets of the legal environment; case materials used to demonstrate problem analysis and solution.

3202 Commercial Transactions (3) Prereq: FIN 3201. Credit will not be given for both this course and FIN 3200 or 3203. Legal concepts underlying transfer and sale of goods and commercial paper (checks, promissory notes, certificates of deposit, etc.); use of instruments for creating credit (mortgages, pledges, liens, etc.); application of the Louisiana Commercial Code and the Uniform Commercial Code.

3203 Commercial Transactions for Accountants (3) Prereq: FIN 3201. Credit will not be given for both this course and FIN 3202. Specifically for accounting majors. Legal concepts underlying sale of goods; commercial paper; security interests, partnerships, corporations, and bankruptcy; application of the Uniform Commercial Code and preparation for the CPA examination.

3205 Mineral Rights (3) Prereq: FIN 3355. Law of mineral rights; emphasis on Louisiana oil and gas law; leases, royalty interests, title search, unitization, and pooling; mineral law of other states and of hard materials.

3351 Principles of Real Estate (3) Prereq: FIN 3201. Purchasing, owning, and operating real estate relative to interest in realty, liens, contracts, deeds, titles, leases, brokerage, management.

3352 Real Estate Valuation and Investment (3) Prereq: FIN 3351 or equivalent. Principles of valuation applied to single-family and income-producing real property; techniques for making investment decisions in alternative types of real property; cash flow analysis considering income tax effects, financial leverage, risk-return trade-offs, and alternative methods of disposition.

3353 Real Estate Finance (3) Prereq: FIN 3351 or equivalent. Real estate financing decisions for residential and income-producing properties; risk-return analysis for varying conditions of financial leverage; decision making related to pricing, alternative financing methods, refinancing, mortgage portfolio management; financing methods; government involvement in mortgage market and housing finance.

3354 Topics in Real Estate (3) Prereq: FIN 3352 or 3353 or consent of instructor. Topics vary.

3355 Real Property Law (3) Prereq: FIN 3201. Rights and obligations which attach to various types of ownership of immovable property both in Louisiana and Anglo-American jurisdictions.

3440 Risk and Insurance (3) Prereq: FIN 3201. Nature of non speculative risks and possible alternative methods of treating them; specific application of these methods to personal and business risks arising from life, health, property, and liability contingencies; influence of public policy on risk treatment.

3441 Life and Health Insurance (3) Prereq: FIN 3440. Analysis of insurance protecting against economic loss caused by termination of earning capacity through premature death, disability, or old age; derivation of premiums, reserves, benefits; legal aspects; operational features; use of contracts and provisions; disability income protection.

3442 Property and Liability Insurance (3) Prereq: FIN 3440. Property and liability risks; insurance coverages available to meet these risks; basic insurance principles that apply in various property and liability insurance contracts; functional aspects of insurance company operations.

3632 Bank Administration (3) Prereq: FIN 3715. For students interested in commercial banking careers or in role of banks within the American enterprise system. Economic role of banks; structure of banking; lending and investment techniques; bank organization and regulation; student involvement in cases and in management of a simulated bank.

3636 Financial Markets and Institutions (3) Prereq: ECON 2020 or 2030; and QBA 2000; and concurrent registration in ACCT 2021 or 2101. Theoretical and institutional basis for analyzing developments in money and capital markets; use of flow-of-funds accounts as a basic tool of financial analysis; process of financial intermediation and allocation of financial
Business Finance (3) Prereq: ECON 2020 or 2030; QBA 2000; and concurrent registration in ACCT 2021 or 2101. Also offered as ECON 3715. Finance function within the business enterprise; techniques of financial management, concepts of capital structure and dividend policy, working capital management, capital budgeting, institutional environment of the firm.

Advanced Business Finance (3) Prereq: FIN 3715. Critical aspects of financial decision making introduced in FIN 3715; mergers and acquisitions, leasing, venture capital, and strategies for survival and growth of small firms.


Directed Study and Research (3) Prereq: FIN 3633, 3715, and 3826; or equivalent. May be repeated for a max. of 6 sem. hrs. credit. Research under direction of faculty member; written proposal must be approved by faculty member and department chairman prior to registration.

Group Insurance and Pensions (3) Prereq: FIN 3440. Life and health insurance in various areas involving mortality and morbidity contingencies; types of health risk bearers and contracts offered; employee benefit plans with emphasis on the private pension function, including contractual arrangements, benefit formulas, and approaches to financing.

Security Analysis and Portfolio Management (3) Prereq: FIN 3826 or equivalent. Security selection and portfolio diversification in an efficient market; portfolio theory and management; portfolio building and selection; portfolio performance evaluations.

Analysis of Corporate Financial Statements (3) Prereq: FIN 3715 or equivalent. Evaluation of financial statements; emphasis on their use in credit analysis and in evaluation of security risks and returns; recent research in accounting and finance; predictive ability of financial statement data.

Speculative Financial Markets (3) Prereq: FIN 3636 and 3826; or equivalent. Financial and money markets, financial futures markets, and options markets; valuation models for the instruments in these markets; strategies for hedging and speculation in these markets; applications for individual investors, institutional investors, corporate treasurers, and financial institutions.

Legal Environment of Business (3) Legal influences on the business environment; sources of law and their effect on business decisions; constitutional problems in employment, taxation, discrimination; administrative and anti-trust law; torts and product liability law; social, ethical, and international facets of the legal environment.

Seminar in Real Estate (3) Questions concerning real estate finance and valuation; risk-return trade-offs under varying conditions of financial leverage; working papers examining forecasting techniques, tax shelters, real estate syndication, and real estate administration in the public sector.

Real Estate Financial Decisions (3) Prereq: FIN 7717 or equivalent. Decisions facing participants in the real estate market, including equity investors, lenders, and government; refinancing, selecting between alternative financing methods, sale-leaseback, sell versus continue to operate, optimal depreciation methods, alternative methods of disposition, alternative land use controls, and pricing alternative financing instruments.

Advanced Topics in Real Estate (3) Prereq: FIN 7300 or 7310 or consent of instructor. May be taken twice for credit if topics vary.

Risk Management and Insurance (3) Risk management from the business manager’s viewpoint and as a possible alternative to insurance; risk identification and measurement; risk retention, self-insurance, and risk transfer; loss funding and risk financing; access to insurance markets (including bid specifications and company selection); loss prevention; claims administration; risk management audits and insurance surveys.

Seminar in Financial Policy (3) Prereq: FIN 7633, 7717, and 7826, or equivalent; and consent of instructor. Synthesis of concepts from financial management, investments, and financial markets and institutions; applications of financial theory; formation and analysis of financial policy.

Theory of Finance (3) Prereq: ECON 7610 or equivalent. Theory of choice under certainty and uncertainty, time-state preference models of risk allocation, firm investment decisions, stockholder unanimity, mean-variance pricing models, arbitrage pricing models, and option pricing models.

Seminar in Commercial Banking (3) Commercial banking theory and history, quantitative techniques applied to bank asset and liability management, banking structure, markets and competition, capital adequacy and profitability.

Financial Markets (3) Prereq: ECON 5700 and QBA 5014. Theoretical and empirical exposition of financial markets and institutions; their role in the economy; determination of the general level, risk structure, and transaction structure of security returns; emphasis on U.S. financial markets.

Seminar in Financial Markets and Intermediaries (3) Prereq: FIN 7550. Primarily for doctoral students. Markets and intermediaries as alternative institutional mechanisms for structuring financial transactions; transaction services provided by these institutions; benefits and costs of these transaction services as determinants of the structure and extent of the financial sector.

Financial Management for Governments (3) Prereq: ACCT 4421 and QBA 7024. Also offered as PADM 7710. Role of finance in government, stabilization effects, impacts on financial markets; role of financial management; government accounts, essential concepts of financial management; sources of government funds; allocation of funds; debt management and management of financial assets.

Financial Management (3) Prereq: ACCT 5001. Limitations of financial theories of capital budgeting, markets, and structure; analytical abilities developed by use of cases which emphasize usefulness and limitations of financial data; development of cash flow projections; estimates needed for planning; cases in management of current assets and evaluation of capital assets.

Multinational Financial Management (3) Prereq: FIN 7717. Cross border investment, investment analysis, capital planning, foreign currency exposure, and cash management; concepts of political risk assessment; techniques in transactional trade; alternate financial sources; issues in international financial controls.

Advanced Financial Management (3) Prereq: FIN 7717. Theory of business finance and evaluation of its usefulness to financial managers; capital expenditure, capital structure, and dividend decisions; legitimacy of alternative decision criteria; implications of uncertainty and imperfect capital markets on firm financial decisions.

Topics in Business Finance (3) Prereq: FIN 7717. Detailed treatment of topics not covered in depth in FIN 7717 or 7719; prospectus usually available before registration.
7750 Seminar in Corporate Finance (3) Prereq: FIN 7550. Primarily for doctoral students. Theory of choice under certainty and uncertainty; investment and financing decisions of the firm; the agency problem and agency costs; capital structure and dividend models related to corporate control.


7850 Seminar in Investments (3) Prereq: FIN 7550. Primarily for doctoral students. Speculative price as a stochastic process; information revelation in and through speculative price; normative and positive models of investment theory; applications of contingent-claims/derivative securities pricing; theory and empiricism of fixed income securities.

4020 Taxonomy and Ecology of Aquatic Plants (3) See BOTY 4020.

4021 Limnology (3) F 2 hrs. lecture; 3 hrs. lab. Biological, chemical, and physical principles of inland waters.

4022 Principles of Aquaculture (4) S Prereq: 8 sem. hrs. of introductory chemistry and 8 sem. hrs. of introductory zoology or biology; or equivalent. 3 hrs. lecture; 3 hrs. lab with occasional extended field trips. Transportation fee. Principles underlying aquaculture of fish, crustaceans, and mollusks.

4039 Biology of Fishes (3) S Prereq: FISH 4145 or equivalent. Morphological, physiological, and behavioral adaptations of fishes to their environments; relationships between fish biology and fisheries management.

4040 Fisheries Management (4) F 3 hrs. lecture; 3 hrs. lab. Characteristics of fisheries; dynamics of exploited stocks; socioeconomic aspects of fisheries; fisheries management and research techniques; managing wild fisheries stocks.

4061 Selected or Assigned Fisheries Problem (1-4) F,S,Su May be repeated for a max. of 6 sem. hrs. credit.

4100 Animal Cyto genetics (3) F-O Prereq: AGRI 2072, ZOOL 2153, or equivalent. 2 hrs. lecture; 3 hrs. lab. Heredity of animals from the structure and function of chromosomes; correlation of chromosomal characteristics with patterns of genetic function, phenotypic inheritance, and distribution.

4145 Ichthyology (4) See ZOOL 4145.

7001 Research Methodology (3) F See FOR 7001.

7002 Fisheries Literature and Communication (2) F 1 hr. lecture; 3 hrs. lab. Organization and communication of technical fisheries information.

7020 Ecology of Fishes (3) S Prereq: ZOOL 4153 or equivalent. Ecology of fish populations; interactions of fishes and their environment; behavioral adaptations of fishes.

7023 Marine Fisheries Resources (3) F 3 hrs. lecture and occasional extended field trips. Transportation fee. Basic ecological aspects of the marine environment and their relevance to fisheries; survey of major marine fisheries with emphasis on those of the southwestern North Atlantic, Caribbean Sea, and the Gulf of Mexico.

7025 Advanced Aquaculture (3) Su Prereq: FISH 4022 or equivalent. 4 hrs. lecture; 6 hrs. lab with occasional extended field trips. Transportation fee. Systems and practices for maximizing production and profit of cultured aquatic species; emphasis on international aquaculture systems, exotic species, and preparation of management plan for commercial aquaculture.

7026 Shellfisheries Aquaculture (4) F Prereq: FISH 4022 and ZOOL 4154; or equivalent. 3 hrs. lecture; 3 hrs. lab with occasional extended field trips. Transportation fee. Principles and practices of the culture of commercially important crustaceans and mollusks; emphasis on environmental requirements, facility development, management techniques, costs and returns, and processing and marketing.

7027 Genetics and Culture of Finfish (4) Prereq: FISH 4022 and ZOOL 2153; or equivalent. 3 hrs. lecture; 3 hrs. lab. Practical culture techniques and methods of breeding for genetic improvement of commercially important finfish.

7029 Advanced Topics in Fisheries (1-4) V May be repeated for a max. of 6 sem. hrs. when topics vary.

7070 Seminar (1) F,S,Su See WILD 7070.

7320 Fisheries Oceanography (3) F See MRSC 7320.

7424 Diseases of Aquatic Animals (3) Prereq: consent of instructor. Basic microbiology and/or parasitology strongly recommended. 2 hrs. lecture; 2 hrs. lab. Same as VMP 7424. Identification, pathogenesis, and control of viral, bacterial, and parasitic agents causing diseases in aquatic animals.

8000 Thesis Research (1-12 per sem.) "S"/'U" grading.

8900 Research Problems in Fisheries (1-3) F,S,Su May be repeated for a max. of 6 sem. hrs. credit. Pass-fail grading.

9000 Dissertation Research (1-12 per sem.) "S"/'U" grading.

FISHERIES (FISH)
FOOD SCIENCE (FDSC)

Development and utilization of food from the sea; impact of world fisheries, fisheries technology, and seaweed and algal extricates on food science and malnutrition problems; marine productivity in terms of food chain processes, pollution, and by-product recovery.

4162 Microbiology of the Dairy and Food Industries (4) S
See MBIO 4162.

7000 Perspectives in Nutrition (1) F Development of nutrition as a science; current trends in nutritional research.

7010 Food Toxicology (3) S-O Prereq: MBIO 2051 and 4162 or equivalent; introductory food science, and consent of instructor. Principles of food safety and toxicology; food-borne infections and poisonings; natural food toxicants; toxicants of marine microbial origin; etiology of food-borne diseases; microbiological examination of foods, food additives; and food protection criteria.

7016 Current Topics Related to Nutrients in Processed Foods (3) S-E Effects of processing on nutrient retention in food.

7030 Advanced Food Research (1-6) Prereq: consent of department head. May be repeated for a max. of 9 sem. hrs. credit. Individual problems in pertinent areas.

7040 Flavor and Colors of Foods (3) S-E Prereq: CHEM 2262, FDSC 4000, and 4060; or equivalent. 2 hrs. lecture; 3 hrs. lab. Methods of chemical, physical, and instrumental analysis in food colors and flavors; natural and synthetic flavors and colorings.

7050 Food Analysis: Advanced (3) S-O Prereq: FDSC 4050 and 4060; or equivalent. 2 hrs. lecture; 3 hrs. lab. Knowledge of basic concepts of instrumental analysis is required. Emphasis on modern analytical techniques in food analysis.

7060 Advanced Concepts in Food Science (3) S-O Prereq: FDSC 4060 and BCH 4087. Analysis of new and progressive concepts in food science.

7071 Seminar in Food Science (1) F May be taken 3 times for credit. Selected topics in food science and technology.

7075 Advanced Food Preservation (4) S-E Prereq: FDSC 4075 or equivalent. 3 hrs. lecture; 3 hrs. lab including field trips to local food processors. Also offered as ANSC 7075 and HORT 7075. Preservation technologies of various food processing operations from raw ingredients to final product.

7094 Seminar in Nutrition (1) S Same as ANSC 7094, DARY 7094, HEC 7094, PLSC 7094. May be taken twice for credit.

8000 Thesis Research (1-12 per sem.) 'S'/'I''U' grading.

9000 Dissertation Research (1-12 per sem.) 'S'/'I''U' grading.

FORESTRY (FOR)

1001 Conservation of Forest Resources (2) F,S Resources of forest and range land, including wood, wildlife, recreation, forage, and water; techniques of multiple-use management of forest lands.

2001 Desalodrology (2) F 1 hr. lecture; 3 hrs. lab. Transportation fee. Principal trees of the U.S.; their identification, classification, nomenclature, and distribution.

2002 Desalodrology (2) S Prereq: FOR 2001 or equivalent. 1 hr. lecture; 2 hrs. lab. Continuation of FOR 2001.

2011 Forest Mensuration—1 (2) F 1 hr. lecture; 3 hrs. lab. Transportation fee. Use of forestry tools and instruments; techniques for measuring standing trees and wood products; estimating stand volume.

2043 Wood Technology and Identification (3) F 2 hrs. lecture; 3 hrs. lab. Structure and identification of wood; basic physical properties, defects, and uses of wood.

2061 Forest Ecology (3) F Prereq: BOTY 1001, 1002 or BIOL 1001, 1002, 1003, 1004; and credit or registration in
FOR 2001 and AGRO 2051. 3 hrs. lecture; occasional extended field trips. Transportation fee. Ecological relationships of trees, forest communities, and forest ecosystems including principles of establishment, competition, succession, and productivity fundamental to the multipurpose use of forest lands.

3002 Silviculture (4) S Prereq: FOR 2011 and 2061; or equivalent. 3 hrs. lecture; 3 hrs. lab. Transportation fee. Reproduction cutting systems, direct seeding, field planting, controlled burning, intermediate cultural treatments, and application of genetics to forest tree improvement.

3003 Forest Mensuration—II (4) S Prereq: CSC 1240, EXST 2095, FOR 2011, and MATH 1022 and 1431. 3 hrs. lecture; 3 hrs. lab. Transportation fee. Principles in measuring forest resources; measuring trees and stands for volume, quality, and growth; measuring land area, wood products, and other forest resources; sampling and inventory techniques; statistical inference; techniques for growth and yield prediction.

3004 Forest Photogrammetry (3) F Prereq: credit for or registration in FOR 2011 and MATH 1022. 2 hrs. lecture, 3 hrs. lab. Transportation fee. Use of aerial imagery principles and techniques, both photographic and non-photographic, in forest measurement and interpretation relative to forest management.

3034 Summer Field Studies in Dendrology (1) Prereq: FOR 2001. One week of field practice. Transportation fee. Review of species studied in FOR 2001; 60 to 70 more species of trees, shrubs, and woody vines indigenous to the southeastern U.S. studied; herbarium collection required.

3035 Summer Field Studies in Forest Biology (1) Prereq: FOR 3002 and 3003. One week of field practice. Transportation fee. Field analysis of forest communities; on-site examination of the influence of forestry practices on wildlife and water quality.

3036 Summer Field Studies in Mensuration (2) Prereq: FOR 3003. Two weeks of field practice. Transportation fee. Exercises in designing and conducting timber and multipurpose cruises; boundary location and other types of land surveying associated with forest resource management.

3037 Summer Field Studies in Silviculture (2) Prereq: FOR 3002. Two weeks of field practice. Transportation fee. Field application of silviculture with studies of tree vigor, selecting trees for thinning, timber stand improvement, regeneration methods, and soil-site relationships; field trips to view on-site silvicultural practices.

3038 Summer Field Studies in Timber Harvesting (1) Prereq: FOR 3002 and 3003. One week of field practice. Transportation fee. On-site studies of harvesting systems used in southern forestry; participation in timber harvesting; exercises in time and production.

3039 Summer Field Studies in Wood Utilization (1) Prereq: FOR 3002 and 3003. One week of field practice. Transportation fee. On-site studies of wood manufacturing facilities; exercises in product/raw material relationships.

3051 Farm Forestry (2) F 1 hr. lecture; 3 hrs. lab. Not for degree credit for forestry majors. Transportation fee. Protection and management of farm woodlands.

4021 Recreation in the Forest Environment (3) F Prereq: senior standing. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Resource-oriented recreation in the forest; demand and supply; recreational planning and development of forest lands and waters; basic recreation management policies and principles.

4030 Seminar in Tropical Forestry (1) V Prereq: FOR 4038; or FOR 1001 and 4039.

4032 Forest Fire Protection and Use (3) S Prereq: FOR 3037. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Forest fire control and use; emphasis on southern forests.

4033 Management of Hardwoods (3) S Prereq: FOR 3002. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Measurement, reproduction, and management of hardwoods.

4034 Timber Harvesting (3) S Prereq: FOR 3038 and 3039. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Planning and administration of timber harvest; equipment choice, methods of planning, and operational techniques involved in movement of timber products; balancing of harvesting systems.

4035 Forest Game and Range Management (3) F Prereq: senior standing. 2 hrs. lecture; 2 hrs. lab. extended field trips. Transportation fee. Also offered as WILD 4035. Management and ecology of regional forest game mammals and birds; recreational leasing of forest land; livestock management in the forest; current forest wildlife damage control.

4036 Forest Management (4) F Prereq: CSC 1240 and FOR 3036 and 3037. 3 hrs. lecture; 3 hrs. lab. Principles of forest management; stand-level management planning, including growth and yield modeling and management decisions, decision variables, and decision criteria for managing future and current even- and uneven-aged forest stands; forest-land management planning, including traditional forest regulation concepts, harvest scheduling, and multiple-use management.

4038 Forest Economics (3) F Prereq: FOR 3037 and either ECON 2030 or AGEC 2075; or equivalent. Economic theory applied to forest resources and their utilization; application of marginal analysis to forest production; capital budgeting; supply of forest products; application of economic theory to multiple-use forest management.

4039 Forest Policy (3) S Prereq: FOR 3037, 3038, and 3039; or equivalent. 3 hrs. lecture/proseminar discussion. History of forestry and forest legislation; development and evaluation of forest policies; current issues in forest policy.

4040 Urban Forestry (3) V 2 hrs. lecture; 3 hrs. lab. Transportation fee. Conceptual role of trees in urban environments; optimum use of existing forested areas; species selection and tree establishment in suitable planting spaces; street tree ordinances; tree appraisal and evaluation; street tree planning and tree inventory systems; projects to acquaint students with actual urban forest programs.

4041 Wood Procurement (3) F Prereq: FOR 3038 and 3039. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Systematic approach to purchasing timber through understanding timber taxation, long- and short-term contracts, and use of public records; timber owner and buyer relations in land and timber acquisition; mill studies and marketing of wood raw materials.

4044 Mechanical and Physical Properties of Wood (3) V Prereq: FOR 2043 or equivalent. 2 hrs. lecture; 3 hrs. lab. Standard laboratory testing procedures, basic strength determination, working stresses, and timber design.

4045 Design and Control of Wood-Using Processes (3) V Prereq: FOR 2043. Relationship of basic physical properties of wood to utilization processes involving machining, gluing, and finishing.

4046 Chemical Properties of Wood (4) V Prereq: FOR 2043; and either CHEM 2060 or 2262. 3 hrs. lecture; 3 hrs. lab. Chemistry of wood, cellulose, lignin, and extraneous materials in wood and bark; chemical utilization and modification of wood.

4047 Seasoning and Preservation (4) V Prereq: FOR 2043 or equivalent. 3 hrs. lecture; 3 hrs. lab. Principles of lumber drying and wood preservation; economics of the treating industry.

4048 Forest Products (2) S Prereq: FOR 2043. Manufacture and use of forest products.
French courses marked with an asterisk (*) may not be taken for credit by native speakers of French.

*1001 Elementary French (5) F,S,Su Credit will not be given for both this course and FREN 2050. Oral, audio-visual approach to French grammar; emphasis on conversation, supplemented by oral-aural drill in the language laboratory.

*1020 French for Reading Knowledge (5) S,Su Specialized course to satisfy departmental reading requirement for graduate students, but carrying no graduate credit. Undergraduates may enroll on pass-fail basis only. Does not count toward satisfying foreign language requirement for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and introductory French courses.

*2001 French for Travelers—I (3) F,S Credit not applicable toward a major in French. Does not count toward satisfying foreign language requirement for undergraduates. Basic communication patterns; practical everyday vocabulary, with exercises in comprehension and conversation.


*2050 Intensive Elementary and Intermediate French (10) F,S Alternative to FREN 1001 and 2051 sequence. Credit will not be given for both this course and FREN 1001 and 2051. Basic speaking, comprehension, reading and writing skills; fundamental French grammar; emphasis on spontaneous oral expression.

*2051 Intermediate French (5) F,S,Su An honors course, FREN 2052, is also available. Credit will not be given for both this course and FREN 2050. Oral, audio-visual approach to language, supplemented by aural-oral drill in the language laboratory; reading material of moderate difficulty.

*2052 HONORS: Intermediate French (5) F,S Same as FREN 2051, with special honors emphasis for qualified students.

7029 Advanced Topics in Forestry (1-4) V May be repeated for a max. of 6 sem. hrs. credit. Industrial forestry operations; timber harvesting simulation models; forest recreation; fire management; aerial photogrammetry and remote sensing; forest economics; forest ecology; tree improvement; and water quality.

7036 Advanced Topics in Forest Biometrics and Forest Management (3) S Prereq: EXST 7014 and FOR 4036; or equivalent. Theory and practices involved in predicting growth and yield of forest stands; applications of linear and goal programming, biometrics, and capital budgeting to timber and multiple-use management.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Research Problems in Forestry (1-3) May be repeated for credit. Pass-fail grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.
4000 Old French and Medieval Literature (3) V Major aspects of the language and literature of the period.

4001 History of the French Language (3) V Development of French from its beginnings to the present; attention to formation of the modern language.

4004 Critical Methods and Theory (3) V Current and past modes of critical discourse and their application to literary texts.

4005 Advanced French Syntax and Stylistics (3) F,S Syntactical structure of French, with attention to stylistic improvement of written and oral expression.

4010 French Literature of the 16th Century (3) V Major aspects of the literature of the period; topics will focus variously on an author, a theme, or a genre.

4015 Advanced French Phonetics (3) S Analysis of theoretical principles of French phonetics and their application in dictations, transcriptions, and corrective exercises; detailed examination of regular and irregular pronunciations to perfect overall pronunciation and listening comprehension.

4016 Applied French Linguistics (3) F Prereq: FREN 2060 and 4015. Techniques for teaching French; their application in the classroom.

4020 French Literature of the 17th Century (3) V Major aspects of the literature of the period.

4030 French Literature of the 18th Century (3) V Major literary, philosophic, and scientific currents of the period and their interrelations.

4031 The French Film (3) V Art of the French film from Louis Lumière to the present; its interrelations with French literature; screening and analyses of representative films.

4040 French Literature of the 19th Century (3) V Major aspects of the literature of the period.

4041 Translation Skills (3) V Prereq: FREN 2060 or equivalent. An analytic approach to the structures of English and French and the strategies and techniques for their translation in literary, technical, and scientific contexts.

4050 French Literature of the 20th Century (3) V Major aspects of the literature.

4051 French for Business (3) F Prereq: FREN 2053 or 3058. Taught in French. Language acquisition for students preparing for careers involving trade or business activities with French-speaking areas.

4060 French Literature of Quebec (3) V Major aspects of the literature of Quebec.

4064 Pidgin and Creole Languages (3) V See ANTH 4064.

4065 Louisiana French (3) V Dialect areas of Louisiana, including Cajun and Creole speech communities; language contact, language variation, and problems of analysis.

4070 Literature of Africa and the Caribbean (3) Major aspects of francophone African and Caribbean literature.

4081 French Literature in Translation (3) F,S Credit not applicable toward a major in French; knowledge of French not required. May be taken twice for credit when subject matter varies. Selected periods, topics, or movements.

4100 Special Topics in French (3) May be taken twice for credit with consent of department if content varies.

4915 Independent Work (1-3) F,S,SA May be repeated for a max. of 3 hrs. credit. Readings in French literature directed by a senior faculty member.

7005 François Villon and His Age (2) V François Villon and other important figures of the Middle French period, notably Guillaume de Machaut, Eustache Deschamps, Christine de Pisan, Alain Chartier, and Charles d'Orléans.

7006 Studies in Medieval French Literature (3) V May be taken twice for credit with consent of department if content varies. Topics focus on an author, movement, or literary mode.

7012 Studies in 16th-Century French Literature (3) V May be taken twice for credit with consent of department if content differs. Topics focus on an author, movement, or literary mode.

7013 Montaigne (3) V The Essais and their importance.

7021 French Classicism (3) V The classical mode in 17th-century French literature; literary and artistic doctrine, major authors, and genres.

7022 Studies in 17th-Century French Literature (3) V May be taken twice for credit with consent of department if content varies. Topics focus on an author, movement, or literary mode.

7031 Les Philosophes (3) V Aesthetic and language theory as developed in the Encyclopédie and in other major texts of the period.

7032 Studies in 18th-Century French Literature (3) V May be taken twice for credit with consent of department if content varies. Topics focus on an author, movement, or literary mode.

7041 French Romanticism (3) V Historical, epistemological, and semiotic aspects of French Romanticism.

7042 Studies in 19th-Century French Literature (3) V May be taken twice for credit with consent of department if content varies. Topics focus on an author, movement, or literary mode.

7051 The 20th-Century Novel (3) V The works of such major novelists of the modern period as Gide, Proust, Malraux, Camus, Beckett, and Robbe-Grillet.

7052 Studies in 20th-Century French Literature (3) V May be taken twice for credit with consent of department if content varies. Topics focus on an author, movement, or literary mode.

7201 French Phonology and Morphology (3) V Sound structure, form, and function in French; principles and techniques of French phonological and morphological analysis.

7202 French Syntax and Semantics (3) V French transformational generative syntax; modern semantic theory, with emphasis on generative semantics and its relationship to the syntactic component.

7203 French Dialectology (3) V Principles and methods of areal linguistics and social dialectology in French-speaking areas.

7204 Field Methods in French Linguistics (3) V Methods of eliciting linguistic materials, processing and analyzing data, and writing linguistic descriptions; detailed study of dialects of Louisiana French.

7206 Louisiana French and Bilingualism (3) V Some field work required. Sociolinguistic, psychological, and linguistic aspects of bilingualism as they apply to Louisiana; analysis of language contact situations, language change and variation.

7300 Old Provençal (3) V Phonology and morphology of Old Provençal based on the study of literary texts.

7915 Independent Study (1-3) May be repeated for a max. of 3 hrs. credit in a master's program and 9 hrs. credit in a
1001, 1003 Human Geography (3,3) Courses need not be taken in numerical order. Credit will not be given for these courses and GEOG 2062. Culture traits—such as languages, religious beliefs, and cultural transformations of natural landscapes—as a basis for dividing the earth’s surface into its most significant parts; the seven culture worlds and their development, present situation, and interaction.


2050 Physical Geography: The Atmosphere (3) F,S,Su Credit will not be given for both this course and GEOG 2061. Physical processes, principles, and operations in the atmosphere; world climatic realms.

2051 Physical Geography: Land and Water Surfaces, Plant and Animal Realms (3) Credit will not be given for both this course and GEOG 2061. Surface elements of the earth’s environment; relationships among these elements.

2052 Geography of North America (3) Credit will not be given for both this course and GEOG 4052. Physical and cultural analysis.

2055 Map Reading (3) 2 hrs. lecture; 2 hrs. lab. Nature and interpretation of topographic maps.

2061 Physical Geography (3) Either GEOG 2050 or 2051 may be substituted for this course. Credit will not be given for both this course and GEOG 2050 or 2051. Analysis of landforms, hydrology, climate, vegetation, and soil; emphasis on world regional patterns.

2062 Cultural Geography (3) The only substitute for this course is satisfactory completion of both GEOG 1001 and 1003. Credit will not be given for both this course and GEOG 1001 or 1003. Nations of the world, integrated into regional patterns.

3039 Cartographic Drafting and Graphic Presentation (3) 2 hrs. lecture; 2 hrs. lab. Basic drafting instruments and techniques necessary for preparation of maps and scientific graphics.

3065 Practical Geography of Petroleum Resources (3) Geographical aspects of petroleum resources; land and mineral ownership; compilation and application of maps, air photos, archives, surveys, and field work; unitization, site analysis, and impact; emphasis on Louisiana and Gulf Coast.

4001 Geography of Louisiana (3) Natural and cultural elements and regions.

4012 Elements of Cultural Geography (3) Culturally oriented proseminar in American geographical thought during the present century.

4013 Meteorology (3) Temporal and areal variations in composition and structure of the atmosphere; meteorological instruments and measurements.

4014 Climatology (3) Climatic phenomena; methods in development of regional climatology.

4015 Microclimatology (3) Prereq: GEOG 4013 or 4014 or equivalent. Exchanges of radiation, energy, and moisture between the earth’s surface and the atmosphere producing characteristic environmental conditions near the ground important to both rural and urban land uses.

4016 Methods of Climatological Analysis (2) Prereq: GEOG 4013 and 4014; or equivalent. 1 hr. lecture; 2 hrs. lab. Analysis and interpretation of climatological data and application to physical and human problems.

4017 World Climates (3) Prereq: GEOG 2050 or equivalent. Analysis of atmospheric circulation processes that produce differences in climates throughout the world; the earth’s problem climates and climatically sensitive zones most susceptible to floods, droughts, and other environmental stresses.

4018 Geographical Hydrology (3) Prereq: MATH 1021 or equivalent. 2 hrs. lec; 2 hrs. lab. Analysis of basic hydrologic processes with geographical perspective; variability of runoff and groundwater; floods and droughts; climatic and land use impacts on local and global water resources.

4020 Aerial Photo Interpretation (3) Prereq: GEOG 1001. 2 hrs. lecture; 2 hrs. lab. May be taken for elective geography credit. Analysis and mapping of geologic structure, lithology, and landforms from aerial photographs.

4021 Alluvial Morphology (3) Prereq: GEOG 1001, 1003. May be taken for elective geography credit. Processes that originate and change land and hydrographic forms of alluvial surfaces; emphasis on Louisiana.

4022 Geomorphology (3) Prereq: GEOG 1001, 1003. May be taken for elective geography credit. Basic principles underlying the study of land forms; emphasis on processes shaping the natural landscape.

4023 Coastal Morphology and Processes (3) Prereq: consent of instructor. Also offered as GEO 4023. Coastal areas and processes; morphology, sedimentary properties, nearshore oceanographic characteristics, and beach and coastline development.

4026 The Mountain World (3) World mountain environment; physical landforms and processes and human occupancy; description of mountains complemented by human perception; physiological and cultural adaptation to high altitudes, and current mountain land-use policies and strategies.

4028 The Ocean World (3) Physical geography of the world’s oceans; geological and biological aspects of oceanography; ocean-atmosphere interactions; geomorphology and ecology of oceanic islands.

4029 Marine and Coastal Resources (3) Natural resources of the world’s oceans and coasts; structure and function of coastal and marine ecosystems; extent of human exploitation of those resources; environmental issues associated with exploitation.

4031 Spanish America (3) Physical and cultural geography of Mexico, Central America, and Spanish South America.
4032 Brazil and the Caribbean Area (3) Physical and cultural geography of Brazil, the Guianas, and the Caribbean Islands.

4040 Advanced Cartography (3) Prereq: GEOG 3039 or equivalent. 2 hrs. lecture; 2 hrs. lab. Cartographic history; map projection; advanced techniques of data presentation and cartographic production.

4041 Field Methods in Geography (3) 1 hr. lecture; 4 hrs. lab. Cannot be repeated for credit. Students must have Saturdays free. Fall semester emphasis on interpretation of the cultural landscape; spring semester emphasis on the physical landscape.

4043 Computer Cartography (3) 2 hrs. lecture; 2 hrs. lab. Use of certain prepared computer mapping programs (SY-MAP, CALFORM, GEOMAP, CAM, ASPEX, SURFACE-II, and POLYVRT), and techniques necessary to prepare scientific graphics using these programs.

4045 Environmental Remote Sensing (3) Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Basic energy and matter relationships; principles of primary remote sensors; environment studied via remote sensing techniques.

4047 Geographical Information Systems (3) Prereq: CSC 1240 and GEOG 4045. 2 hrs. lecture; 2 hrs. lab. Geographical information systems used in land resource management and planning; data structures and algorithms for automated retrieval and analysis of spatial data; structuring cartographic data into spatial data; integration of remotely sensed data into geographical information systems.

4049 Advanced Computer Cartography (3) Prereq: CSC 1240 and GEOG 4043. 2 hrs. lecture; 2 hrs. lab. Use of computer mapping programs; theory and methods of display of point, line, and area elements in thematic maps; algorithms involved in encoding, editing, storing, retrieving, and displaying data from a digital cartographic data base.

4050 Historical Geography of the South (3) Physical and cultural geography of the southern U.S.; emphasis on geographical elements identified with the south and their historical development; environment, exploration, population, agriculture, and cultural landscape.

4052 Anglo-America (3) Credit will not be given for both this course and GEOG 2052. Physical and cultural geography of Anglo-America.

4055 Geography of Europe (3) Geographical survey of the natural, cultural, and economic resources of Europe and their relationships to the rest of the world.

4060 Political Geography (3) Systematic, cultural-political geography; emphasis on technical and philosophical aspects and on American political landscapes; territorial political entities (cadastal, civil, national, imperial); role of the lands and seas, nature and objects of war; impacts of political entities on the landscape.

4070 Environmental Conservation (3) Factors governing human use of the earth and its resources.

4073 Urban Geography (3) Internal arrangement, external relations, and locational aspects of urban places, with emphasis on U.S.; urban places identified by presence of tertiary economic activities.

4077 Economic Geography (3) Location, characteristics, and relationships of primary, secondary, and tertiary economic activity; measurements and theories of location of economic endeavor.

4082 Biogeography (3) Different approaches to description and interpretation of plant and soil distribution patterns.

4083 Quaternary Paleocoeology (3) Prereq: GEOG 4082 and a basic course in historical geology, or equivalent. 2 hrs. lecture; 4 hrs. lab. Also offered as ANTH 4083. Theory and method of reconstructing climatic, biological, geological, and human history during the Pleistocene and Holocene periods.

4085 Tropical and Subtropical Biogeography (3) Prereq: GEOG 4082 or equivalent. Includes field trip during spring vacation. Principles of tropical ecology and biogeography, taught as preparation for an expedition to tropical America, where field methods will be illustrated and ecological diversity studied.

4086 Cultural Ecology (3) Prereq: year course in biology. Also offered as ANTH 4086. Ethnobiology, human adaptation processes, energy flow, world biomes; emphasis on strategies of individuals and small groups in various regional contexts.

4090 The History of Geography (3) 3 hrs. lecture and pre­ seminar discussion. Development of geography since ancient times; emphasis on the 19th and 20th centuries.

4164 Deltaic Geology (3) See GEOL 4164.

4998 Independent Reading and Research in Geography (1-6) May be repeated for credit. An honors course, GEOG 4999, is also available. Supervised reading or research on topics selected by qualified advanced students.

4999 HONORS: Independent Reading and Research in Geography (1-6) Same as GEOG 4998, with special honors emphasis for qualified students.

7901 Introduction to Graduate Study (1) Same as ANTH 7901. Techniques and methods of their profession for incoming graduate students.

7906 Settlement Geography—Exploration (3) May be taken 3 times for credit with consent of department.

7909 Coastal Swamps and Marshes (3) See MRSC 7209.

7910 Form-Process Relationships in Coastal Environments (3) V See MRSC 7210.

7917 Advanced Physical Geography (3) May be taken 3 times for credit with consent of department.

7921, 7922, 7923 Research and Field Work in Geography (3-6 each) Each course may be repeated for credit.

7926 Advanced Geomorphology (3) May be taken 3 times for credit with consent of department.

7937 Geographical Literature (3)

7938 Culture History (3) May be taken 3 times for credit with consent of department.

7941 Coastal Ecology (3) Prereq: GEOG 4028 or equivalent. 2 hrs. lecture; 2 hrs. lab. Also offered as MRSC 7241. All students must have weekends free.

7942 Coastal Climatology (3) Prereq: GEOG 4028 and a basic course in either meteorology or climatology, or consent of instructor. Also offered as MRSC 7142. Meteorologic and climatologic phenomena occurring in coastal areas.

7946 Coastal and Estuarine Resources (3) Prereq: GEOG 4028 and 4029; or equivalent. Also offered as MRSC 7246. Nature of coastal and estuarine resources and their perception, evaluation, and exploitation.

7950 Problems in the Geography of Latin America (3) Prereq: reading knowledge of Spanish or Portuguese. Problems in the cultural and economic geography of Latin America.

7960 Hydroclimatology (3) Prereq: GEOG 4014 or 4015 or equivalent. 1 hr. lecture; 4 hrs. lab. Field measurements and laboratory analyses of radiation and water budgets in rural
9000 Thesis Research (1-12 per sem.) "S"/"U" grading.

GEOL0GY (GEOL)

1001 General Geology: Physical (3) Prereq: credit or eligibility for MATH 0092. An honors course, GEOL 1002, is also available. Earth materials and landforms; processes at work on and within the earth.

1002 HONORS: General Geology: Physical (3) Same as GEOL 1001, with special honors emphasis for qualified students.

1003 General Geology: Historical (3) Prereq: GEOL 1001. Credit will not be given for both this course and GEOL 2003. An honors course, GEOL 1004, is also available. History of the earth and life on it as deciphered from study of its rocks and fossils.

1004 HONORS: General Geology: Historical (3) Same as GEOL 1003, with special honors emphasis for qualified students.

1005 Introduction to Oceanography (3) Prereq: GEOL 1001. The world's oceans, their origin and evolution; interactions between physical, geological, chemical, and biological processes in the marine environment; use and abuse of oceans.

1601 Physical Geology Laboratory (1) Prereq: credit or concurrent enrollment in GEOL 1001. Includes one Saturday field trip. Lab. related to GEOL 1001; topographic maps; properties of minerals and rocks; analytical techniques used in geology; structural geology and geologic maps.

1602 Historical Geology Laboratory (1) Prereq: credit or concurrent enrollment in GEOL 1003. Includes one Saturday field trip. Lab. related to GEOL 1003; sedimentary rocks and environments, geobiological sequences, fossils, and the historical geologic record as interpreted from maps.

2001 World Energy Resources (3) Prereq: GEOL 1001. Also offered as GEOG 2001. Geologic and geographical factors of energy; emphasis on distribution, use, reserves, and potential of hydroelectric, geothermal, tidal, and solar power; mineral fuels and raw materials; waste disposal; site inspection.

2071 Structural Geology (4) Prereq: GEOL 1003, 1602; credit or registration in Math 1552. 2 hrs. lecture; 6 hrs. lab. Description, classification, and interpretation of structures; introduction to tectonics.

2081 Mineralogy (3) Prereq: CHEM 1201, 1202, and 1212; 2 hrs. lecture; 3 hrs. lab. Elementary crystallography; general chemical and physical properties of minerals.

2082 Petrography (3) Prereq: GEOL 2081. 2 hrs. lecture, 3 hrs. lab. Optical mineralogy, phase diagrams, and rock forming minerals.

3011 Introduction to Paleontology (4) Prereq: GEOL 1003, 1602; CHEM 1202, 1212; BIOL 1002. 3 hrs. lecture, 3 hrs. lab. Characteristics of modern/fossil animal groups; biological and geological systems that produced them; systematics, evolution, taxonomy, and paleoecology.


3031 Sedimentary Geology for Petroleum Engineers (3) Prereq: GEOL 1001. 2 hrs. lecture; 2 hrs. lab. Sediments and sedimentary rocks from the standpoint of processes and products through time; the natural rock system.

3061 Stratigraphy (3) Prereq: credit or registration in both GEOL 2071 and 2082. 2 hrs. lecture; 2 hrs. lab. plus field trips. Principles of stratigraphy and depositional models; methods of field and laboratory stratigraphic analysis.

3666 Field Geology (6) Su only Prereq: GEOL 2071 and 2082; or equivalent. Students planning to take this course should apply to the camp director no later than Feb. 15. Camp fee. Six-weeks in the Front Range of Colorado and adjacent mountainous areas.

3901, 3902 Senior Seminar (0,0) Approx. 2 hrs./wk. Weekly lectures given by extramural specialists on various aspects of geology; discussion sessions.

3909 Geological Research (1-3)

4001 Advanced Physical Geology (3)

4012 Introduction to Micropaleontology (3) F Prereq: GEOL 3011 or equivalent. 2 hrs. lecture; 3 hrs. lab. Morphology, classification, stratigraphy, paleoecology, and evolutionary patterns of common marine microfossils; emphasis on Foraminifera.

4023 Coastal Morphology and Processes (3) See GEOG 4023.

4031 Introductory Sedimentation (3) Prereq: GEOL 1003. 2 hrs. lecture; 2 hrs. lab. Mineralogy, texture, structures, and stratigraphy of sediments and sedimentary rocks; their origin through weathering, erosion, transportation, deposition, and diagenesis.

4041 Igneous and Metamorphic Petrology (3) Prereq: GEOL 2082. 2 hrs. lecture; 3 hrs. lab. Composition, textures, structures, distribution, and origin of igneous and metamorphic rocks.

4042 Principles of Economic Geology (3) Prereq: GEOL 2071 and 2081. 2 hrs. lecture; 3 hrs. lab. Geology and genesis of metallic and nonmetallic earth resources.

4044 Petroleum Geology (3) Prereq: GEOL 2082, 3012, 2071 and MATH 1550. Modern concepts of the origin, migration, entrapment and production of hydrocarbons from sedimentary basins.

4064 Solid Earth Geophysics (3) Prereq: GEOL 2071 and MATH 1552. Concepts and methods used to study the structure and dynamics of the earth; rotation, gravity, seismology, heat flow, geomagnetism, paleomagnetism, radioactivity, and deformation.

4065 Introduction to Potential Fields (3) Prereq: Math 2057 and 2090. Fundamental concepts and methods in the analysis of gravity, magnetics, and heat flow produced by the earth.

4066 Plate Tectonics (3) Prereq: GEOL 2071. Contemporary concepts of plate tectonics; geophysical observations and geologic implications.

4067 Introduction to Seismology (3) Prereq: Math 2057, 2090, and either GEOL 2071 or consent of instructor. Fundamental concepts and methods in seismic wave analysis used to study earth; body waves, plane wave reflection, surface waves, earthquakes, and focal mechanisms.

4068 Reflection Seismology (3) Prereq: GEOL 4067. Seismic reflection techniques used to investigate shallow earth structure; waves in layered media, correlation, convolution, de-
convolution, and spectral analysis; interpretation of seismic record sections.

4071 Advanced Structural Geology (3) Prereq: minimum of 20 hrs. in geology courses, including GEOL 2071. 2 hrs. lecture, 3 hrs. lab. Structural geology of the U.S.; its application to problems of folding, faulting, rock mechanics, and plate interactions.

4081 Chemical Oceanography (3) Prereq: consent of instructor. 3 hrs. lecture/seminar. Also offered as MRSC 4126. Controls on the mass balance and distribution of major elements, trace elements, heavy metals, dissolved gases, and nutrients in estuarine and open-ocean systems.

4082 Introduction to Geochemistry (3) Prereq: GEOL 2082 and MATH 1550. Crystal chemistry; application of chemical principles to problems of the origin and evolution of the earth's crust, ocean, atmosphere, and economic resources; major geochemical cycles.

4083 Introduction to Isotope Geochemistry (3) Prereq: GEOL 2082 and MATH 1550; or equivalent. Principles of nuclear chemistry, radioactive decay, and isotopic fractionation processes; radiometric dating techniques and stable isotopic studies.

4084 Isotope Stratigraphy (3) Prereq: GEOL 4031, 4082 or equivalent. Review of geological events of global and regional significance which leave isotope marks in the sedimentary record.


4111 Vertebrate Paleontology (3) Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Phylogenetic survey of fossil vertebrates; their origins and transitions; vertebrate taphonomy, biostratigraphy, and fossil collection and preparation.

4131 Basin Analysis (3) Prereq: GEOL 4031. Basic environment of sediment deposition; sedimentological models and their relationships within depositional basins; analysis of theoretical basin models and comparison with modern and ancient sedimentary basins.

4161 Gulf Coast Geology (3) Prereq: GEOL 2071. Origin and evolution of the Gulf Basin; stratigraphy and structure of Mesozoic and Cenozoic rocks, sedimentary facies, sedimentary tectonics, geothermal heat flow, fluid migration, mineral and water diagenesis, salt and shale diapirism, structural deformation, and the occurrence of oil and gas.

4164 Deltaic Geology (3) Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Also offered as GEOG 4164. Processes of deltaic sedimentation and the nature of deltaic sediments; Mississippi River delta compared to other modern and ancient deltas.

4165 Subsurface Geology (3) Prereq: GEOL 1001, 1003, 1601, 1602; GEOL 2661 and PETE 4088 strongly recommended. 2 hrs. lecture; 3 hrs. lab. Principles and methods of exploration, analysis, and interpretation using borehole data, electric logs, and samples of rocks and fluids; construction of geologic maps and sections showing sediment facies, geologic structure, geotemperature, fluid pressure and water salinity, analysis of fluid migration, oil and gas accumulation, and geothermal resources.

4210 Geological Oceanography (3) See MRSC 4210.

4666 Coastal Field Geology (4) Su only Prereq: consent of instructor. Also offered as MRSC 4666. Camp fee. Four-week field course on the Louisiana coast utilizing facilities operated by Louisiana Universities Marine Consortium. Sedimentary environments, coastal processes, and environmental geological problems of the Mississippi delta plain.

7043 Advanced Igneous Petrology (3) Prereq: GEOL 4041 or equivalent. 2 hrs. lecture; 3 hrs. lab. Phase diagrams, magmatic origin of igneous rocks, and evolution of igneous provinces.

7044 Advanced Metamorphic Petrology (3) Prereq: GEOL 4041 or equivalent. 2 hrs. lecture; 3 hrs. lab. Facies concept, theoretical and field relations, textures, and their significance.

7062 Seismic Stratigraphy (3) Prereq: GEOL 2071 or equivalent. Interpretation of seismic reflection data in terms of sedimentary facies, stratigraphic sequences, and implications for local and eustatic sea-level fluctuations.

7064 Numerical Methods in the Geological Sciences (3) Prereq: CSC 2262, MATH 1552, and either GEOL 4062 or 4064; or equivalent. Numerical methods applied to geological research; interpolation and extrapolation, nonlinear equations, solutions of simultaneous linear equations, least squares approximations, numerical integration, numerical solution of differential equations, and Fourier transforms.

7065 Geodynamics (3) Prereq: MATH 2057 and 2090 or equivalent; and GEOL 4064 or equivalent. Fundamental physical processes involved in plate tectonics and other geological phenomena; concepts in mantle convection, rock rheology, faulting, flexure, and heat transfer.

7066 Earthquake Seismology (3) Prereq: GEOL 4062 or GEOL 4068; or equivalent. Basic principles of earthquakes; source mechanism, seismic waves and tectonic application; seismicity, magnitude, radiation pattern, source description, ray tracing, earthquake location, seismotectonics, and earthquake prediction.

7111 Advanced Micropaleontology (3) Prereq: consent of instructor. May be taken twice for credit. Advanced training in micropaleontology.

7113 Research in Foraminifera (3) Prereq: GEOL 3012. Minimum 5 hrs./wk. lecture, seminar, and supervised lab. Morphology and systematics.

7114 Research in Foraminifera (3) Prereq: GEOL 7113 or equivalent. Minimum 5 hrs./wk. lecture, seminar, and supervised lab. Ecological implications and stratigraphic application.

7115 Paleopedology (3) Prereq: GEOL 3011 or equivalent. 2 hrs. lecture; 2 hrs. lab. History, techniques, and modern literature in paleopedology; functional morphology, communities and community evolution, and the relationship between paleopedology and continental drift.

7116 Paleontologic Taxonomy and Techniques (3) 2 hrs. lecture; 2 hrs. lab.

7117 Biomorphology (3) Prereq: GEOL 3011 or equivalent. 2 hrs. lecture; 2 hrs. lab. History of stratigraphic concepts; continental drift and correlation; problems in marine, terrestrial, and subsurface correlation; integration of new techniques such as magnetic stratigraphy.

7118 Paleoprotistology (3) Biology, paleogeography, and biostratigraphy of the protists; emphasis on one or more of the algal divisions—Haptophyta (coccoliths and other calcareous phytoplankton), Pyrrophyta (dinophytes), and Bacillariophyta (diatoms and other siliceous phytoplankton)—their use in petroleum exploration and environmental analysis.

7119 Paleopalynology (3) Taxonomy, paleogeography, and biostratigraphy of miospores and other dispersed plant frag-
ments found in sediments; their use in petroleum exploration and environmental analysis.

7131 Petrology of Sandstones (3) 2 hrs. lecture; 3 hrs. lab. Petrology and petrography of terrigenous sandstones; applications of sediment mineralogy and texture to the analysis of provenance, deposition, and diagenesis; emphasis on the interrelationship of tectonics and sedimentation.

7132 Dynamics of Sedimentation (3) 2 hrs. lecture; 3 hrs. lab. Fluid mechanics as applied to sedimentation, fluid-particle interactions, erosion, mechanics of sediment transport including fluid and sediment flows, deposition and the origin of primary structures, and hydrodynamic instability and soft-sediment deformation.

7133 Sedimentary Petrography of Carbonates (3) 2 hrs. lecture; 3 hrs. lab. Principles governing formation, deposition, and diagenesis of carbonate sediments and sedimentary rocks; lab stresses textural, fabric, and mineral relationship and interpretation of depositional environments and mineral paragenesis of ancient carbonate sequences.

7134 Clay Mineralogy (3) 2 hrs. lecture; 3 hrs. lab/discussion. Mineralogy; geochemistry, and the clay of clay minerals; argillaceous sediments and rocks.

7162 Paleozoic Stratigraphy (3) Paleographic development of the earth during the Paleozoic Era; emphasis on global reconstructions, climates, and stratigraphy of major basins.

7163 Mesozoic and Cenozoic Stratigraphy (3) Paleographic development of the earth during the Mesozoic and Cenozoic Eras; emphasis on global reconstructions, climates, and the stratigraphy of major basins.

7181 Oceanographic Geochemistry (3) Prereq: GEOL 4082 or equivalent; 3 hrs. lecture/seminar. Quantitative analysis of geochemical processes in marine systems.

7183 Low-Temperature Physical Geochemistry (3) Prereq: GEOL 4082 or equivalent. Quantitative techniques in thermodynamics, kinetics, and mass transport applied to problems of weathering, transport, deposition, and diagenesis of sedimentary minerals and fluids.

7666 Gulf Coast Field Geology (8) Su only Prereq: GEOL 3666 or equivalent. Students requiring this course should contact the departmental office no later than Feb. 15. All incoming graduate students interested in ‘soft rock’ specialties should enroll. Camp fee. Eight-week field course. Comparison of recent depositional environments with Paleozoic, Mesozoic, and Cenozoic counterparts in the Gulf Coastal Plain and its margins.

7681 Instrumental Techniques in Geochemistry (3) 2 hrs. lecture; 3 hrs. lab. Theory, techniques, and applications of instrumental analysis.

7685 Methods and Applications in Fission Track Geochronology (3) 2 hrs. lecture; 3 hrs. lab. Applications of fission track systematics to the study of geologic problems.

7701 Electron Microscopy (2) Same as BOTY 7701, ME 7701, MBIO 7701, ZOOL 7701.

7704 Scanning Electron Microscopy Laboratory: Geological Materials (2) Prereq: credit or registration in GEOL 7701; or equivalent. 6 hrs. lab. Preparation of geological specimens for SEM observation; energy dispersive x-ray analysis; use of the JSM-2 electron microscope.

7909 Geological Research: General (1-6) General student-selected research topics; focused group research, including crustal geophysics.

7911 Seminar in Geology: Paleontology (2) May be repeated for credit.

7919 Geological Research: Paleontology (1-6)

7931 Seminar in Geology: Sedimentology (2) May be repeated for credit. Fall semester: carbonate sedimentology; spring semester: clastic sedimentology and sedimentary environments.

7939 Geological Research: Sedimentology (1-6)

7941 Seminar in Geology: Igneous and Metamorphic Petrology (2) May be repeated for credit.

7949 Geological Research: Igneous and Metamorphic Petrology (1-6)

7961 Seminar in Geology: Dimensional Geology (2) May be repeated for credit.

7966 Field Work (1-9)

7969 Geological Research: Dimensional Geology (1-6)

7971 Seminar in Tectonics (3) Plate tectonics, diapirism, isostasy, and the tectonics of specific areas.

7972 Seminar in Geophysics (3) May be taken twice for credit. Structure and composition of the mantle, physical processes at ridges, trenches, and transform faults; dynamics of plate interiors; intraplate stress; and thermal histories of the earth and other terrestrial planets.

7981 Seminar in Geophysics (2) Prereq: consent of instructor. May be taken 3 times for credit. Mineralogy, paragenesis, geochemistry, and natural occurrence of authigenic silica in sediments; other topics such as hydrogeochemistry, isotopic geochemistry, and the geochemistry of carbonates.

7989 Geological Research: Geochemistry and Mineralogy (1-6)

8000 Thesis Research (1-12 per sem.) ‘S’/‘U’ grading.

9000 Dissertation Research (1-12 per sem.) ‘S’/‘U’ grading.

GERMAN (GERM)

German courses marked with an asterisk (*) may not be taken for credit by native speakers of German.

*1001 Elementary German (5) Intensive drill in German speech habits; conversation, aural comprehension, dictation, and functional grammar.

*1020 German for Reading Knowledge (5) Specialized course intended to satisfy departmental foreign language reading requirement for graduate students, but carrying no graduate credit. Undergraduates may enroll on pass-fail basis only. Does not count toward satisfying foreign language requirement for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and introductory German courses.

*2001 Practical German for Business and Travel—I (3) Elective credit only; will not count toward foreign language requirement or major. Non-traditional course designed for those with no formal study of German. Emphasis on acquisition of skills required for immediate communication in German-speaking countries.

*2002 Practical German for Business and Travel—II (3) Prereq: German 2001. Elective credit only; will not count toward foreign language requirement or major. Intermediate level, emphasis on skills needed for extended sojourns in German-speaking countries.
*2051 Intermediate German (5) Continuation of oral-aural practice; systematic grammar review; readings in modern German prose.

*2053 Intermediate German (3) Extensive and rapid reading of German; continued oral work, vocabulary building, and review of grammar.

*2055 Readings in German Literature (3)

2061 Advanced German Grammar (3) For German majors or students preparing to teach the language. Intensive course in German grammar.

2062 Advanced German Composition and Syntax (3) Prereq: GERM 2061. Intensive practice to acquire correctness and fluency in both oral and written expression, as well as the ability to understand lectures in German.

2075 German Civilization (3) German majors in culture and thought option may receive credit. Knowledge of German not required. Also offered as HIST 2075. Development of the modern German states from early Germanic times; art, literature, music, science, and philosophy in a political/historical context.

2090 Germanic Mythology (3) Taught in English; knowledge of German not required. Credit not applicable toward a major in German. Germanic myths and legends; their manifestations in religion, literature, art, and music.

3081 Survey of German Literature from the Beginning to 1350 (3) Prereq: GERM 2055 or equivalent. Readings from the earliest records through the high Middle Ages to approximately 1350; emphasis on the courtly period (1180-1220).

3083 Survey of German Literature, 1830-1890 (3) Prereq: GERM 2055 or equivalent.

3084 Survey of German Literature, 1890-Present (3) Prereq: GERM 2055 or equivalent.

3090 Friedrich Nietzsche (3) Knowledge of German not required. German majors in culture and thought option may receive credit. Also offered as PHIL 3090. Major works of Nietzsche studied in the context of the three periods of productivity and evolution of his thought.

3091 Special Topics in German Literature in Translation (3) Knowledge of German not required. German majors in culture and thought option may receive credit. May be taken twice for credit when topics vary.

GREEK (GREK)

1001 Elementary Greek (5) Readings to provide mastery of simple Greek prose; forms, vocabulary, syntax, and grammar.

2051 Intermediate Greek (5) Continuation of Greek 1001; readings in prose texts of moderate difficulty.

2053 Homer (3) Readings from the Iliad or Odyssey; selected passages from various books; some attention to aesthetic and historical problems.

2055 Greek Drama (3) Readings in Greek drama including a representative play of Sophocles or Euripides.

2075 Classical Epic in Translation (3) Taught in English; knowledge of the Greek and Latin languages not required. Growth and development of the type of classical literature called epic; Greek and Latin works; emphasis on nature and growth of this type of literature, its basic themes, the nature of a hero, and possible relevance to the modern reader.

2092 Greek and Latin Word Study (3) No previous knowledge of Greek or Latin required; credit not applicable toward a major in classical languages or Latin. Etymology of common and scientific words derived from Greek and Latin; emphasis on medical terminology.

3015 The Archaeology of Ancient Greece (3) Also offered as ANTH 3015. Material culture of the great civilization of ancient Greece; includes Neolithic Age, Bronze Age (Mycenean-Minoan), Classical Age, and the Age of Alexander the Great.

3032 Greek and Roman Tragedy in English Translation (3) Taught in English; knowledge of Greek and Latin languages not required. Credit not applicable toward a major in Latin or classical languages. Drama of Greece and Rome; origins, major examples, and relevance; plays of Aeschylus, Sophocles, Euripides, and Seneca.

3040 Greek and Roman Comedy in English Translation (3) Knowledge of Greek or Latin not required. Masters of stage comedy from the ancient world with special attention to Aristophanes, Menander, Plautus, and Terence; origins and growth of comedy as an art form; problems in staging; social nature of comedy in the ancient world.
### HEALTH, PHYSICAL EDUCATION, RECREATION, AND DANCE (HPRD)

Courses offered are of two types: (1) basic activity courses such as tennis, golf, etc. open to all students of the University; and (2) professional courses in health and physical education. All activity courses are offered on a letter-grade basis; however, a student may petition to receive a pass-fail grade.

#### Basic Activity Courses

Students in these classes must furnish and wear clothing suitable to the activity.

**112 to 1160 Beginning Courses (1 sem. hr. each)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>112</td>
<td>Wrestling</td>
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<tr>
<td>113</td>
<td>Archery</td>
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<tr>
<td>114</td>
<td>Tennis</td>
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<tr>
<td>115</td>
<td>Golf</td>
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<tr>
<td>116</td>
<td>Gymnastics</td>
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<td>117</td>
<td>Modern Dance</td>
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<td>118</td>
<td>Rifery</td>
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<tr>
<td>119</td>
<td>Badminton</td>
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<tr>
<td>120</td>
<td>Bowling</td>
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<tr>
<td>121</td>
<td>Ballet</td>
</tr>
<tr>
<td>122</td>
<td>Ballroom Dance</td>
</tr>
<tr>
<td>123</td>
<td>Children’s Rhythms For elementary grades, physical education, or special education majors.</td>
</tr>
<tr>
<td>124</td>
<td>International Folk Dance</td>
</tr>
<tr>
<td>125</td>
<td>Swimming 1136 or equivalent.</td>
</tr>
<tr>
<td>140</td>
<td>Scuba Diving Prereq: HPRD 1136 or consent of instructor.</td>
</tr>
<tr>
<td>142</td>
<td>Conditioning Exercises</td>
</tr>
<tr>
<td>144</td>
<td>Aerobic Dance</td>
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<tr>
<td>146</td>
<td>Weight Training</td>
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<tr>
<td>148</td>
<td>Pistol Marksmanship</td>
</tr>
<tr>
<td>151</td>
<td>Racquetball</td>
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<tr>
<td>153</td>
<td>Jazz Dance</td>
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<tr>
<td>154</td>
<td>Martial Arts</td>
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<td>155</td>
<td>Jogging</td>
</tr>
<tr>
<td>156</td>
<td>Outdoor Living Skills American Red Cross Standard First Aid Certificate recommended.</td>
</tr>
<tr>
<td>1157</td>
<td>Aerobic Swimming Prereq: HPRD 1236 or intermediate swimming skills.</td>
</tr>
<tr>
<td>1158</td>
<td>Canoeing Prereq: must be able to swim 50 yards with a personal flotation device; tread water for one minute and swim 50 yards without a personal flotation device.</td>
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</table>

**1160** Adapted Physical Education For students who cannot participate in vigorous physical exercise due to physical disability or other handicapping condition.

**1223 to 1257 Intermediate Courses (1 sem. hr. each)**

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<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>1223</td>
<td>Archery</td>
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<td>1224</td>
<td>Tennis</td>
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<tr>
<td>1225</td>
<td>Golf</td>
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<tr>
<td>1226</td>
<td>Gymnastics</td>
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<tr>
<td>1227</td>
<td>Modern Dance</td>
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<tr>
<td>1229</td>
<td>Badminton</td>
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<tr>
<td>1230</td>
<td>Bowling Prereq: men must have at least a 140 average; women, 130 average.</td>
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<tr>
<td>1231</td>
<td>Ballet</td>
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<tr>
<td>1234</td>
<td>International Folk Dance Prereq: HPRD 1134 or equivalent.</td>
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<tr>
<td>1236</td>
<td>Swimming</td>
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<tr>
<td>1244</td>
<td>Aerobic Dance</td>
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<tr>
<td>1246</td>
<td>Weightlifting</td>
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<tr>
<td>1251</td>
<td>Racquetball</td>
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<tr>
<td>1253</td>
<td>Jazz Dance</td>
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<tr>
<td>1254</td>
<td>Martial Arts</td>
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<tr>
<td>1255</td>
<td>Jogging</td>
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<tr>
<td>1257</td>
<td>Aerobic Swimming</td>
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**1324 to 1353 Advanced Courses (1 sem. hr. each)**

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<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>1324</td>
<td>Tennis</td>
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<tr>
<td>1327</td>
<td>Modern Dance</td>
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<tr>
<td>1331</td>
<td>Ballet Prereq: HPRD 1231 and consent of instructor.</td>
</tr>
<tr>
<td>1336</td>
<td>Swimming</td>
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<tr>
<td>1337</td>
<td>Advanced Lifesaving Prereq: HPRD 1236 and satisfies prerequisite</td>
</tr>
<tr>
<td>1338</td>
<td>Water Safety Instructor's Course Prereq: valid Advanced Lifesaving Certificate.</td>
</tr>
<tr>
<td>1353</td>
<td>Jazz Dance</td>
</tr>
</tbody>
</table>

#### Professional Courses

In the School of Health, Physical Education, Recreation, and Dance, the second digit of the course number denotes the area of interest for professional courses, as follows: 4—physical education activity for majors; 5—physical education theory; 6—health; 7—recreation; and 8—dance.

**1404 Orientation to Physical Education (1) 3 hrs. lab. Must be taken during student’s first semester as a physical education major or minor. Pass-fail grading. Introduction to physical education; assessment of proficiency in activities.**

**1405 Track and Field (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. For physical education majors or minors.**

**1406 Basketball (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. For physical education majors or minors.**

**1407 Softball (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. For physical education majors or minors.**

**1408 Volleyball (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. For physical education majors or minors.**
1409 Flag Football (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. For physical education majors or minors.

1410 Field Sports (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. For physical education majors or minors.

1411 Gymnastics (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. For physical education majors or minors.

1412 Tennis (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. For physical education majors or minors.

1413 Badminton (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. For physical education majors or minors.

1600 Personal and Community Health Problems (2)

1700 Introduction to Recreation (3) Same as LA 1651. Historical and philosophical foundations of leisure and recreation in modern society; emphasis on team efforts of landscape architects and recreation specialists in the planning, designing, and management of recreational space and programs.

1800 Introduction to Dance (3) Prereq: acceptance into dance curriculum. Dance as a performing art.

1801 Modern Dance Technique (1) 3 hrs. lab. May be repeated for credit every semester. Instruction in modern dance technique.

1804 Dance Theatre (2) 6 hrs. lab. May be taken twice for degree credit. Admission by audition. Participation in Dance Theatre.

1805 Ballet Technique (1) 3 hrs. lab. May be repeated for credit every semester. Instruction in the basic technique of classical ballet.

1809 Folk and Ethnic Dance Ensemble (2) 6 hrs. lab. May be repeated for credit every semester. Admission by audition. Participation in the folk and ethnic dance ensemble.

1810 Ballet Ensemble (2) 6 hrs. lab. May be taken twice for credit. Admission by audition. Participation in the ballet ensemble.

2500 Anatomy (3)

2501 History and Principles of Physical Education (3) Development of school programs in physical education from ancient times to the present.

2502 Tests and Measurements in Physical Education (3) 2 hrs. lecture; 2 hrs. lab. Principles of measurement and evaluation in physical education; emphasis on criteria for selection and evaluation of tests and techniques of testing; analyzing and interpreting motor performance and cognitive test scores.

2504 Principles of Conditioning (2) 1 1/2 hrs. lecture; 1 1/2 hrs. lab. Methods and concepts of training and conditioning; physical fitness activities and current trends; participation in selected activities designed to promote fitness; planning programs for physical fitness for educational institutions and social agencies.

2507 Methods and Materials in Physical Education for the Elementary School (4) 2 hrs. lecture; 4 hrs. lab. For elementary teachers. Progressively graded programs of activities for elementary schools.

2508 Practicum in the Teaching of Sport and Dance Activities (1) Prereq: competency in the activity to be taught. 3 hrs. lab. May be repeated for credit when activity varies.

2511 Sports Officials (2) Prereq: proficiency in sports indicated. 1 hr. lecture; 2 hrs. lab. Rules interpretation and techniques of officiating basketball, volleyball, and softball.

2515 The Coaching of Track and Field (2) 1 hr. lecture; 2 hrs. lab. Principles and techniques of coaching track and field; organization and administration of practice and various levels of competition.

2516 The Coaching of Basketball (2) 1 hr. lecture; 2 hrs. lab. Principles and techniques of coaching basketball; organization and administration of practice and various levels of competition.

2517 The Coaching of Baseball/Softball (2) 1 hr. lecture; 2 hrs. lab. Techniques of coaching baseball/softball; organization and administration of practice and various levels of competition.

2518 The Coaching of Volleyball (2) 1 hr. lecture; 2 hrs. lab. Techniques of coaching volleyball; organization and administration of practice and various levels of competition.

2519 The Coaching of Football (2) Prereq: 1 hr. lecture; 2 hrs. lab. Techniques of coaching football; organization and administration of practice and various levels of competition.

2525 Practicum in the Coaching of Individual and Team Sports (1-3) 3-9 hrs. lab. May be repeated for credit when sports vary.

2526 Psychology of Coaching (3) Psychological perspectives applied to the athletic situation; coaching personalities, athletic personalities, psychological injuries, motivation, mental preparation, relaxation techniques, and stereotypes in athletics.

2530 Sport in Society (3) Interdisciplinary study of sport as a mirror of society reflecting the dynamics of man's social existence; emphasizes process through which individuals formulate their identity from youth to old age.

2540 Introducing Physical Education for All Handicapped Children (3) Credit will not be given for both this course and HPRD 3545. Open only to physical education majors. Laws affecting the handicapped; motor abilities of handicapped children; adjusting programs to suit their needs and interests.

2600 Human Sexuality (3) Historical, semantic, religious, social, medical, and comparative cultural aspects of human sexuality from childhood to senility.

2601 First Aid (1) 1 hr. lecture; 1 hr. lab. American Red Cross certificates are awarded to those who satisfactorily pass the examination.

2602 Methods, Materials, and Content in Health Education for the Elementary School (3)

2603 Consumer Health (3) Major consumer health problems; selecting, purchasing, and financing health services and products.

2604 Issues in Mental Health (3) Issues in mental health: stress, depression, alienation, family violence, suicide, death and dying.

2801 Rhythmic Analysis and Accompaniment for Movement (2) 1 hr. lecture; 2 hrs. lab. Rhythmic elements in movement; structural relationship between music and dance; use of percussion instruments for simple dance accompaniment.

2804 Dance Practicum (1-3) May be repeated for credit: Pass-fail grading. Experience in technique, performance, or choreography.

3507 The Olympic Games: Ancient and Modern (3) Origins, growth, politicalization, and governance of the games.

3510 Techniques and Methods of Teaching Physical Education (3) Prereq: credit in HPRD 2504 and competency in four team sports. 2 hrs. lecture; 3 hrs. lab. Microteaching and field experience required. Current teaching methods and materials in physical education; teaching styles, aids, and formulation of lesson and unit plans.

3511 The Physical Education Program in Elementary Schools (3) 2 hrs. lecture; 2 hrs. lab/field experiences in
Health, Physical Education, Recreation, and Dance 357

multicultural settings. For physical education majors or minors. Progressively graded programs of activities.

3513 Introduction to Motor Learning and Development (3) Prereq: HPRD 2502 and PSYC 2060 or equivalents. 2 hrs. lecture; 2 hrs. lab. Principles of motor learning; application of psychological and physiological principles to motor learning and improvement of physical performance; role of growth, development, and emotional and psychosocial phenomena in motor learning and performance.

3514 Kinesiology (3) Prereq: HPRD 2500. 2 hrs. lecture; 2 hrs. lab. Science of muscular movements; basic body movements and structures; applied mythology, and kinesiologic analysis; application of kinesiology to physical education activities.

3515 The Physiological Basis of Physical Activity (3) Prereq: HPRD 2500. 2 hrs. lecture; 2 hrs. lab. Basic physiological concepts of the muscular, cardiovascular, and circulatorespiratory systems; behavior of each system in relation to exercise; determination of "normal" and "abnormal" physical conduct in learning situations; development of a philosophy of scientific inquiry.

3516 Curriculum Construction in Physical Education (3) Curriculum construction and program content for elementary and secondary schools.

3533 Exercise Testing and Fitness Programs: Materials and Methods (3) Prereq: HPRD 2500, 2601, 3515. 2 hrs. lecture; 2 hrs. lab. For students in the fitness studies specialization. Theory and practice of fitness testing, exercise prescription, health promotion, and related concerns.

3534 Coronary Heart Disease Risk Factors—Effects of Exercise (3) Prereq: HPRD 2500, 3515. For students in the fitness studies specialization. Historical development of CHD risk factors. Contraindications and valid uses of exercise in the amelioration of CHD risk factors.

3538 Practicum in Applied Fitness (6) 12 hrs. lab; for students in fitness studies specialization; pass-fail grading. Practical application of exercise testing, exercise prescription, and leadership with adults.

3540 Behavior Impairment and Physical Education (3) Prereq: EDCI 2700 and HPRD 2540. Substantial observation in schools required. Focus on children sometimes labeled mentally retarded, emotionally disturbed, or learning disabled; appropriate physical education settings.

3541 Chronic Disability and Physical Education (3) Prereq: EDCI 2700 and HPRD 2540. Substantial observations in schools required. Focus on children with overt physical and/or sensory disabilities of a long-lasting nature who need adjusted physical education programs.

3545 Handicapped Children in Physical Education (3) Prereq: EDCI 2700. Credit will not be given for both this course and HPRD 2540. Not open to physical education majors. Motor traits of handicapped children; curriculum implementation specified in federal and state legislation.

3602 Instructor's Course in First Aid (2) 1 hr. lecture; 2 hrs. lab. For persons qualifying to teach the junior and standard Red Cross courses in aid to the injured.

3603 Organization of the School Health Program (3) Prereq: HPRD 1600. Organization of school health programs involving health services, healthful school living, school environment, school health administration, and evaluation of school health programs.

3604 Methods of Teaching Secondary Health Education (3) Prereq: HPRD 1600. 2 hrs. lecture; 2 hrs. field experiences in multicultural settings. Structure of school health education and its relationship to official and voluntary health agencies and to professional associations; modern health resources suitable for teaching health.

3605 Health and the Aging Process (3) Health conservation of human resources; emphasis on understanding attitudes and practices related to health in the aging process.

3608 Communicable and Noncommunicable Diseases (3) Etiology, prophylaxis, and control of communicable and noncommunicable diseases and impairments; cancer, diabetes, and cardiovascular, respiratory, and sexually transmitted diseases.

3660 The Holistic Health Approach to Stress (3) Sources of stress; evaluation of stress-related diseases; techniques for promoting stress reduction; prevention of stress-related diseases.

3663 Health Care Systems (3) Health care delivery systems; role of official health agencies, hospitals, and nursing homes; place of the allied health professions in the health care picture; preparation for field work.

3690 Field Work in Community Health (12) Open only to seniors in health science. 40 hrs. per week for entire semester. Field experience in a state, local, voluntary, or federal health agency.

3702 Camp Management (3) Camp organization policies; areas and facilities; program, leadership, and counselor skills.

3802 Dance Composition (3) Fundamental elements and principles of choreography.

3803 Improvisation (3) Structural problems and exploration in dance improvisation.

4500 Adapted Physical Education (3) 2 hrs. lecture; 2 hrs. lab. Preparation for teaching special activities to atypical or handicapped children; organization and administration of clinical exercise programs.

4501 Workshop for Physical Education Teachers (3) May be repeated for credit, but only 3 sem. hrs. may be counted toward the degree. For teachers interested in improving physical education programs at elementary or secondary level.

4503 Prevention and Emergency Care of Athletic Injuries (2) 1 hr. lecture; 2 hrs. lab. Primarily for physical education majors.

4504 Advanced Diagnosis and Treatment of Athletic Injuries (3) Prereq: HPRD 4503. 2 hrs. lecture; 2 hrs. lab. Training-room procedures; first aid treatment of injuries and rehabilitation; use of athletic training-room equipment; protective strapping, padding, etc. for all sports.

4505 Practicum in Athletic Training (5) Prereq: HPRD 4503. 10 hrs. lab.

4520 Psychosocial Aspects of Sport (3) Prereq: senior or graduate standing. Psychological and sociological perspectives of sport; nature of play and sport, personalities of sport participants, sport as a social phenomenon, and current literature related to psychosocial aspects of sport.


4600 The School Health Program (3) Problems involved in promoting health of school children; prevention of and protection against infectious diseases; physical inspection and examination; health instruction; provision of a wholesome environment.

4601 Community Health Issues (3) Community health aspects and implications of tobacco, alcohol, drugs, venereal
disease and other communicable diseases; other community health problems.

4602 Community Safety Education (3) Covers all grade levels in the school health program; community programs; home, traffic, and recreational safety; emphasis on organization and administration of these programs.

4604 School and Community Health Workshop (3) For nurses, school administrators, public health personnel, community health workers, and teachers in all fields of specialization. Interrelations of school and community health programs; presentations of critical health topics by outstanding authorities from Louisiana and other states.

4605 Habituating and Addictive Drugs in Our Culture (3) Prereq: HPRD 1600 and senior or graduate standing. Harmless, harmful, useful, and useless chemical substances which affect physiological well-being and behavior or mood; interaction of psychological, sociological, and physiological components.

4608 Community Health Organization (3) Field trips. Incidence and prevalence of specific community health problems; solutions through coordinated efforts of governmental and voluntary health agencies.

4619 Methods and Materials for Teaching Human Sexuality (3) Prereq: HPRD 1600 and 2600. For the present and future educator. Human sexuality; emphasis on need for education about sexuality, theories of sex education, sequential unit planning, survey and availability of audio-visual materials, and qualifications of the effective sex educator.

4700, 4701 Field Work in Recreation Leadership (4, 4) 1 hr. lecture; 6 hrs. lab. Development of abilities in leadership and programming techniques in recreation activities including arts and crafts, music, drama, social recreation, and sports.

4703 Philosophy of Recreation/Leisure Services (3) Delivering leisure services to the public; factors affecting leisure use; relation of leisure to education, politics, and needs of people; leadership needs of the profession.

4704 School and Community Recreation Programs (3) Program planning for school and community; types of programming using resources of total community for leadership, program, and facilities.

4705 Administration of Recreation and Parks (3) Administration of public recreation and park organizations provided by municipal, state, and federal governments; surveys, policies, legislation, legal aspects, finance, and public relations.

4802 Advanced Dance Composition (3) Theoretical and creative aspects of advanced choreography.

4803 Methods for Teaching Modern, Folk, and Ballroom Dance (2) 1 hr. lecture; 2 hrs. lab. Modern, folk, and ballroom dance material; emphasis on creative approaches.

4804 Dance Theatre (2) 6 hrs. lab. May be repeated for credit every semester. Admission by audition. Experienced modern dancers participate in the modern dance theatre as lead dancers and choreographers in dance productions.

4805 Dance Production (3) Production elements for dance theatre.

4806 History of Dance (3) Development of dance from primitive people through the 19th century.


4808 Music Resources for Dance (3) Aesthetic and functional relationship of music to dance.

4900 Independent Study (1-3) May be repeated for credit for a max. of 6 sem. hrs. Open to advanced undergraduate or graduate students. Reading, research, and/or field work on selected topics.

7501 Advanced Research Methods (3)
7502 Curriculum Construction in Physical Education (3)
7504 Tests and Measurements in Health and Physical Education (3)
7505 Problems in Physical Education (3) May be taken twice for credit when topics vary. Individual study.

7507 Historical and Philosophical Foundations of Physical Education (3)

7508 Advanced Kinesiology (3).

7510 Motor Learning (3)

7511 Administrative Problems in Health, Physical, and Recreation Education (3)

7513 Seminar in Physical Education Professional Preparation (3) Issues and trends in physical education; emphasis on undergraduate and graduate professional preparation.

7514 Pedagogy in Physical Education (3) Prereq: HPRD 7502 and admission to the doctoral program. Theory and research relating to systematized instruction in physical education.

7520 Motor Development (3) 2 hrs. lecture; 2 hrs. lab. Psychomotor development of children; implications for skill learning; analyzing and planning motor development research; motor development in special children; research on youth sports; evaluation and assessment; and perceptual-motor development.

7522 Physical Education for Preschool and Elementary School Children (3) Essentials for a successful movement program for children at the preschool and elementary school level; philosophy, objectives, trends, teaching methods, and materials necessary for program development.

7523 Theories of Motor Skill Acquisition (3) Prereq: HPRD 7510 and 7520. For Ph.D. students in motor learning or motor development. Issues in motor control and learning, i.e., central and peripheral mechanisms, theories of motor learning, motor programs, and short-term memory.

7525 Children and Sport (3) Open to graduate students from any area. Children's involvement in organized sports; understanding of the present structure of youth sports; research in child development, training, injuries, social psychology, skill acquisition, and coaching behavior; implications for children in sport.

7527 Seminar: Developmental Factors in Children's Motor-Skill Learning (3) Prereq: HPRD 7510 and 7520; or equivalent. For doctoral students only. Developmental learning theory and literature; effects of developmental factors on children's motor performance and learning.

7528 Sport Psychology (3) Problems of several areas of social psychology related to sport; research methodology and theories.

7530 Exercise Physiology (3) 2 hrs. lecture; 2 hrs. lab. Physical, chemical, and environmental factors influencing physical performance; bioenergetics, cardiovascular and respiratory adjustments to exercise; research relevant to conditioning and physiological responses to exercise.

7531 Structural and Functional Characteristics of the Developing Child (3) 2 hrs. lecture; 2 hrs. lab. Structural changes of growth of prepubertal and pubertal children related to function in physical activity.

7533 Exercise for Adults: Prevention of and Rehabilitation from Coronary Heart Disease (3) Prereq: HPRD 7530. I
7534 Exercise and Coronary Heart Disease Risk Factors
(3) Prereq: HPRD 7530. Contraindications and valid uses of exercise in mediating risk factors.

7535 Neuromuscular Aspects of Exercise
(3) Prereq: HPRD 7530. Effects of exercise on muscle cell structure and function; neuromuscular integration and neural function in exercise.

7536 Cardiovascular and Respiratory Function in Exercise
(3) Prereq: HPRD 7530. 2 hrs. lecture; 2 hrs. lab. Mechanics of cardiovascular and respiratory function related to exercise.

7537 Exercise and Environment
(3) Prereq: HPRD 7530. 2 hrs. lecture; 2 hrs. lab. Effects of environmental conditions on performance of various types of exercise.

7538 Practicum in Cardiac Rehabilitation
(6) Prereq: HPRD 7530, 7533, 7534, 7551. Pass-fail grading. Minimum on-site requirement is 20 hours per week. Important for exercise specialist, exercise leader, or graded exercise technician certification. Involvement in the practical application of exercise testing, exercise prescription and exercise leadership for cardiac patients.

7539 Laboratory Techniques in Exercise Physiology
(3) Prereq: HPRD 7530; 1 hr. lecture, 4 hrs. lab; exercise physiology and college chemistry recommended. Laboratory techniques in exercise physiology; principles of metabolic measurement and assay procedures for quantification of dynamic changes in blood chemistry during exercise.

7540 Motor Characteristics of Handicapped Children
(3) Prereq: HPRD 4500 or 4540 or equivalent. Structure of gross and fine motor abilities in regular and handicapped children; inter- and intra-individual performance differences and factors associated with them.

7541 Motor Activity Programming for Handicapped Children
(3) Prereq: HPRD 7540. Motor activity programs developed from factor analytical studies contrasted with those of an intuitive base; implications of federal and state regulations.

7542 Program Approaches for Special Physical Education
(3) Prereq: HPRD 7541. Open only to doctoral students. Approaches for eliciting behavior change in handicapped children, from a motor activity frame of reference.

7550 Advanced Exercise Physiology
(3) Prereq: HPRD 7530; 2 hrs. lecture; 2 hrs. lab; college chemistry, mathematics, physics recommended. Quantitative approach to both systemic and cellular control during exercise.

7551 Exercise Electrocardiography: Principles and Practice
(3) Prereq: HPRD 7530 or consent of instructor. Physiological bases, practical considerations, and rhythm identification of resting and exercise electrocardiograms.

7600 Advanced Personal and Community Health
(3) Prereq: HPRD 7530. Changing Health Behavior (3) Motivation and determinants of health behavior; behavior change strategies designed for utilization in individual and group health education programs; promoting innovative health education programs in schools and the community.

7602 Philosophic and Historical Foundations of Health Education
(3) People, events, institutions, and ideologies influencing the historical development of health education; current philosophical perspectives and ethical issues in the health field.

7605 Problems in Health Science
(3) May be taken twice for credit when topics vary. Individual study.

7620 Epidemiological Approach to Community Health
(3) Prereq: EXST 4001 or equivalent. Vital health statistics via the disease model and its determinants; community organization and program development related to community health education, both qualitatively and quantitatively.

7700 Organization and Administration of Recreation
(3)

7701 Workshop in Recreation
(3) 2 hrs. lecture; 3 hrs. lab.

7705 Problems in Recreational Studies
(3) May be taken twice for credit when topics vary. Individual study.

7805 Problems in Dance
(3) May be taken twice for credit when topics vary. Individual study.

7900 Introduction to Research Methods
(3)

7999 Seminar in Selected Topics in Health, Physical Education, Recreation, and Dance
(1-3) May be repeated for a max. of 6 sem. hrs. credit. Topics vary.

8000 Thesis Research
(1-12 per sem.) "S"/"U" grading.

8900 Independent Research
(1-9) May be repeated for a max. of 9 sem. hrs. credit. Pass-fail grading.

9000 Dissertation Research
(1-12 per sem.) "S"/"U" grading.

HEBREW (HEBR)

Biblical Hebrew
(3,3) HEBR 4001 is prerequisite for 4002. Grammar, syntax, and vocabulary; readings of narrative portions of the Old Testament.

HISTORY (HIST)

History of Western Civilization
(3) An honors course, HIST 1002, is also available. Ideas, trends, and institutions in western civilization from earliest times to the Reformation.

HONORS: History of Western Civilization
(3) Same as HIST 1001, with special honors emphasis for qualified students with consent of instructor. Independent reading and study.

History of Western Civilization
(3) An honors course, HIST 1004, is also available. Development of western civilization from the Reformation to the present.

HONORS: History of Western Civilization
(3) Same as HIST 1003, with special honors emphasis for qualified students with consent of instructor. Independent reading and study.

Great Figures in World History
(1) Lives and times of selected men and women who influenced events, institutions, and thought of world history.

Great Figures in American History
(1) Lives and times of selected men and women who influenced events, institutions, and thought of American history.

History of the Ancient Orient and Greece
(3) Ancient Near East and Greece; emphasis on cultural phases and development of Athenian democracy.
2002 History of Rome (3) Roman history from the beginnings to Emperor Constantine.

2011 English History (3) English history from Roman times to the Glorious Revolution (1688).

2012 English History (3) English history from 1689 to the present.

2021 Modern European History (3) Political, economic, and social developments and diplomacy from the Renaissance to the revolutionary movements of 1848.

2022 Modern European History (3) Political, economic, and social developments and diplomacy from the unification movements in Germany and Italy to the present.

2023 The World Since 1960 (3) Major events since 1960 in the U.S., U.S.S.R., and selected nations of western Europe, the Middle East, Latin America, Africa, and Asia; emphasis on social, economic, and political conditions affecting individuals born about 1960.

2055 American History (3) Prerequisite for all advanced courses in American history. An honors course, HIST 2056, is also available. American history from the earliest times to 1865.

2056 HONORS: American History (3) Same as HIST 2055, with special honors emphasis for qualified students.

2057 American History (3) Prerequisite for all advanced courses in American history. An honors course, HIST 2058, is also available. American history from 1865 to the present.

2058 HONORS: American History (3) Same as HIST 2057, with special honors emphasis for qualified students.

2061 History of Blacks in America (3) Social, cultural, and economic role of black people in the U.S. from 1619 to the present; African heritage, slavery, antebellum free people of color, Reconstruction revolution, and the modern black protest movement.

2071 History of Louisiana (3) Political, economic, social, and cultural development of Louisiana.

2075 German Civilization (3) German majors in culture and thought option may receive credit. Knowledge of German not required. Also offered as GERM 2075.

2085 Colonial Latin America (3) Colonial period emphasizing the European background, explorations, political and economic systems, and wars of independence.

2086 Latin America Since Independence (3) Latin American countries in the 19th and 20th centuries; search for political stability, economic and social progress, and international relations.

2095 History of East Asian Civilization to 1800 (3) Interdisciplinary and cultural approach to the civilization of East Asia, particularly China and Japan, from antiquity to early contacts with the West.

2096 History of East Asian Civilization Since 1800 (3) Modern Asian civilization; emphasis on contacts with the West, and the rise of nationalism and communism.

2101 The History of Science to 1600 (3) Scientific thought from the ancient Orient and Greece to the Renaissance; origins of the scientific revolution; science in the age of Galileo; emphasis on the connections between the history of science and the histories of technology, magic and astrology, art, philosophy, and religion.

2102 History of Science from 1600 (3) History of physical sciences, biology, and medicine from the 17th century to the present; impact of Newtonian and Darwinian science on 18th and 19th century culture; science and scientific institutions since the 17th century; recent trends in high-energy physics, molecular biology, and artificial intelligence.

2135 Introduction to Russian Culture and Civilization (3) See RUSS 2075.

3100 HONORS: Approaches to History (3) Open to honors students having credit for 6 sem. hrs. of history and to others with consent of instructor. Scope and meaning of history; biographies and writings of famous historians from the earliest times to the present.

3109 HONORS: Proseminar (3) Open to qualified honors students having credit for 12 hours of history and consent of instructor. Candidates for the honors degree in history will select an honors thesis topic before the end of the semester. Supervised reading in an assigned field of historical study; discussion of historical methods and research.

3110 HONORS: Senior Thesis Research Seminar (3) Prereq: HIST 3109. Open to honors students with consent of seminar director. Thesis writing under supervision of the seminar director; on completion of the thesis, the student will be examined orally by a committee of three or four faculty members on the thesis and on his or her general field of historical interest.

3119 Undergraduate Proseminar (3) Prereq: consent of instructor. Open to students with at least 6 sem. hrs. of credit in history and with an overall 3.00 gpa. May be taken twice for credit when topics vary. Supervised reading and research in an assigned field of historical study.

4001 Greece of the City State (3) Political, social, and cultural evolution of the Greek world from the Bronze Age to the foundation of the Macedonian Empire of Alexander the Great; attention to growth of democratic institutions.

4003 History of the Roman Republic (3) History of the Roman state, culture, and society from the origins of the city to the dictatorship of Julius Caesar.

4004 History of the Roman Empire (3) Roman history, including the growth of absolute government, spread of Christianity, and other political, cultural, and social movements from the establishment of the Principate to the fall of the Western Empire.

4005 History of the Christian Church: 50-450 (3) See REL 4005.

4006 History of the Christian Church: 450-1350 (3) See REL 4006.

4007 The Early Middle Ages, 300-1100 (3) History of Europe from the decline of Rome to the 12th century; development of medieval society and institutions.

4008 The Later Middle Ages, 1100-1500 (3) History of Europe from the First Crusade to the discovery of America; developments in social and political institutions and intellectual life.

4009 The Renaissance (3) Italian society and thought from Dante to Michelangelo, with emphasis on the medieval foundations of Renaissance culture; northern Europe from the Hundred Years War to the Reformation, with emphasis on political and economic development.

4011 The Age of the Reformation (3) 16th-century Europe, with emphasis on Protestant and Catholic reform movements.

4013 Europe in the Age of Absolutism (3) Political, economic, and institutional history of Europe, 1560-1660.

4014 The Old Regime and the Enlightenment (3) Institutions of the Old Regime, with emphasis on the Enlightenment, 1660-1760.
4015 French Revolution and Napoleon (3) Background, constructive developments, and territorial changes resulting from wars of the period, with emphasis on Europe's emergence into a new era.

4016 19th-Century Europe (3) The period 1815-1870.

4018 Europe Since the First World War (3) The interwar period; crisis of the democratic state and emergence of totalitarian governments in Europe.

4020 Modern Italy (3) Intellectual, economic, social, and political history of Italy from the Enlightenment to present; emphasis on national unification, Fascism, and World War II; post-war economic development and terrorism.

4021 History of France (3) Cultural, political, economic, and social survey of France from earliest times to Louis XIV.

4022 History of France (3) Cultural, political, economic, and social survey of France from Louis XIV to the present.

4023 History of Spain (3) Political, economic, and social development from the earliest times to the present.

4025 Germany from the Reformation to Bismarck (3) German political, social, and cultural development from 1500 to 1890; the Thirty Years' War; the rise of Prussia; the nationalism of the nineteenth century.

4026 Twentieth-Century Germany (3) The five states that have existed in Germany since 1890; the Wilhelminian Empire; the Weimar Republic; the Third Reich; and the two Germanies of today.

4029 History of Eastern Europe, 1700-1914 (3) Intellectual, social, and political history of Eastern Europe from 1700 to 1914, with emphasis on rise of nationalism in the 19th century.

4030 History of Eastern Europe, 1914-Present (3) Intellectual, social, and political history of Eastern Europe from 1914 to the present; emphasis on rise of the nation-states during and after World War I, impact of Fascism in the inter-war period, and Communist takeover following World War II.

4031 History of the Balkans, 1453-1878 (3) Origins of the Balkan peoples, development of the Ottoman Empire, and rise of the autonomous Balkan nation-states.

4032 History of the Balkans, 1879-Present (3) Events leading up to and including World War I, problems of the inter-war period, World War II, and rise of Communism in Southeastern Europe.

4033 History of Russia to 1861 (3) Kievan Rus, the Tsardom of Muscovy, and Imperial Russia to the emancipation of the serfs; emphasis on distinctive features of Russian historical development: autocracy, serfdom, Russian Orthodox Christianity, ambivalent attitudes toward Western culture, literature as social protest.

4034 History of Russia Since 1861 (3) Reaction and reform from 1861 to 1905; failure of parliamentary democracy amid war and revolution; Leninism and Stalinism; relaxation of totalitarian rule since Stalin's death.

4035 The Revolutionary Tradition in Russia (1790-1905) (3) Revolutionary ideas and activity in 19th-century Russia; native Russian socialist tradition as a basis for understanding the unique characteristics of Russian Marxism.

4036 The Development of Soviet Communism (3) Soviet Communism from the beginning of the 20th century to the 20th Party Congress in 1956; ideology and institutions and their inter-relations.

4039, 4040 English Constitutional History (3,3) Origin and development of English legal institutions; their influence on American legal institutions.


4044 Stuart England (3) Period of transition from kings who would be absolutist, through the crisis of civil wars, to the beginnings of parliamentary dominance; from a few settlements abroad in America to the beginnings of true empire; from a feudal economy to mercantilism; from the Elizabethan to the Augustan eras in society, literature, and the arts.

4045 Hanoverian England (3) Political, economic, social, and intellectual history of England in the 18th century—from the accession of George I to about 1793.

4046 19th-Century Britain (3) From the outbreak of the French Revolutionary Wars to the end of the Victorian Era; transformation of Great Britain from an agrarian to an industrial nation; establishment of a laissez-faire economy; transition from aristocracy to democracy; reform of traditional institutions; emergence of a class system; evolution of characteristic Victorian beliefs and attitudes; development of scientific, religious, and philosophic thought.

4047 The Age of Churchill (3) Political, social, and economic developments in England and the British Empire during recent times; emergence of the modern social state.

4049 The British Empire and Commonwealth (3) British Empire and development of the British Commonwealth of Nations.

4051 Colonial America, 1607-1763 (3) Political, economic, cultural, and military developments in the 13 colonies.

4052 The American Revolution, 1763-1789 (3) Political, intellectual, economic, and military developments in the formation of a permanent American union.

4053 The Age of Jefferson and Hamilton, 1789-1820 (3) Implementation of the Constitution, adoption of the Bill of Rights, formation of a political party system, and economic and social change.

4054 The Age of Jackson, 1820-1860 (3) Examination of democratization, economic transformation, party development, the reform movement, slavery, and the sectional crisis.

4055 Civil War (3) Secession; social and economic conditions, principal military campaigns.

4056 Reconstruction (3) Political, social, and economic changes in the South from 1865 to 1880.

4057 The Emergence of Modern America (3) Industrialization, party politics, and social life in the U.S. from 1870 to 1900.

4059 The American Teens and Twenties (3) From the inaugural of Woodrow Wilson to the Crash of 1929; Wilson and reform at home and revolution abroad; the Great War and its impact; the Jazz Age, its tension and its collapse.

4060 The Age of Roosevelt (3) From the inaugural of FDR to the surrender of Japan: the Great Depression and the New Deal; the thirties' search for an American culture; the road to Pearl Harbor; America in World War II, at home and abroad.

4061 Intellectual and Social History of the United States to 1865 (3) Ideas and their relationship to American society from the colonial period to the Civil War.

4062 Intellectual and Social History of the United States from 1865 to the Present (3) Ideas and their relationship to American society from the Civil War to the present.

4063 Diplomatic History of the United States, 1776-1914 (3) American diplomatic history to the outbreak of World War I; connections between domestic politics and foreign affairs.

4064 Diplomatic History of the United States, 1914 to the Present (3) Interpretations of American foreign policy in the
20th century; emphasis on public opinion and relationship of business investment to foreign policy.

4065 History of Contemporary America (3) History of America since 1945, focusing on domestic affairs.

4066 Military History of the United States (3) Military policy and campaigns, war economy, and organization of the armed forces.

4067 The Negro in America (3) Negro life and history from 1619 to 1876; African background of American Negroes.

4068 The Negro in America (3) Negro life and history from 1876 to the present; emphasis on the 20th century as an era of change.

4069 The Early American Frontier (3)

4070 The Later American Frontier (3)

4071 The Antebellum South (3) Economic, social, intellectual, and political development of the South up to 1860.

4072 The New South (3) Political, economic, social, and intellectual history of the South since 1877.

4073 History of Louisiana to 1815 (3) Political, economic, and social development of Louisiana.

4075 American Economic History to 1860 (3) Also offered as ECON 4075. American economic growth and development from the colonial period to 1860, including the railroad, slavery, technology, and nature of the industrial revolution; findings and method of the "new" or quantitative economic history.

4076 American Economic History, 1860 to the Present (3) Also offered as ECON 4076. American economic growth and development from 1860 to the present; economic impact of the Civil War, technological change, mechanization of agriculture, railroads, automobiles, war, the Great Depression, and multinational corporations; findings and method of the "new" or quantitative economic history.

4081 History of the Caribbean, 1492-1830 (3)

4082 History of the Caribbean, 1830 to the Present (3)

4083 Great Powers of Latin America: Mexico (3) Political, economic, and social developments since independence.

4085 History of Argentina (3) Political, social, and economic development from the colonial period to the present.

4087 Mexico: The Colonial Era (3) Colonial social, economic, political, and intellectual events; emphasis on those that gave rise to the socioeconomic and political problems of modern Mexico.

4089 History of Brazil (3) Political, economic, social, and diplomatic developments from 1500 to the present.

4091 History of China (3) Political, economic, and cultural life of China from antiquity to 1800.

4092 History of China (3) Western impact on Chinese civilization; political and cultural developments.

4093 History of Pre-Modern Japan (3) Japanese political and cultural history and civilization from the beginnings to the close of the Japanese middle ages.

4094 History of Modern Japan (3) Japanese history from 1600 to the present; emphasis on historical and cultural roots of Japan's modernization in the late 19th century and quest for empire in the 20th; cultural and intellectual developments in modern Japan.

4095 History of the Middle East to 1800 (3) F History and culture of the Arab people in the Middle East and the Maghrib from the pre-Islamic period to the end of the eighteenth century; emphasis on the interrelation of socio-economic structures and intellectual developments in science, religion, and philosophy; demographic factors, especially the changing ratios of population to resources (land, water, capital).

4096 Modern Middle Eastern History—19th and 20th Centuries (3) Major problems of the Middle East and North Africa in the modern period; internal Arab social, economic, and intellectual developments; Muslim responses to European colonialism; modern Arab nationalism and political trends; Islamic reformist and revivalist movements; problem of Palestine.

4097 History of Africa to 1800 (3) African social and historical development from prehistory to the beginning of the 19th century.

4098 History of Africa from 1800 to the Age of Independence (3) African societies in the 19th and early 20th centuries; emphasis on internal African developments, including European colonization and the beginnings of independence movements on the continent.

4105 Studies in Classical History (3) Selected periods and problems in Greek and Roman history; methods and materials of ancient scholarship.

4111 Early Modern European Institutions (3) Emphasis on early modern European history.

4113 European Intellectual History since 1789 (3) European thought affecting society in the last 200 years; romanticism, socialism, Darwinism, psychoanalysis, existentialism.

4130 History of World War II (3) Origins, evolution, and consequences of the most devastating conflict in modern times; emphasis on diplomacy, the role of espionage, counter-espionage, propaganda and resistance, and the social impact of war; war as a global phenomenon, with primary focus on Europe and the United States.

4151 Historical Archaeology (3) See ANTH 4018.

4161 History of Religion in the United States (3) Also offered as REL 4161. Religion in the U.S. from the colonial period to the present; relation between changing religious beliefs and behavior of American people and political, social, economic, and intellectual developments; Puritanism, revivalism, response to Darwinian evolution, social gospel, and civil religion.

4191 Religions of China and Japan (3) Also offered as REL 4191. Major religious traditions of East Asia; Confucianism, Taoism, Mahayana Buddhism, Shinto, and Chinese and Japanese folk religion; religion in the context of Chinese and Japanese cultural history.

4195, 4196, 4197 Special Studies in History (3, 3, 3) Prereq: consent of department. Topics vary.

4901 Independent Study (3) Prereq: open to advanced students of high academic standing by consent of department. Reading and research on selected topics.

4902 Independent Study (3) Prereq: open to advanced students of high academic standing by consent of department. Reading and research on selected topics.

7000 History and Criticism: Its Nature and Meaning (3) Origin and evolution of concepts of history; emphasis on problems involved in both writing and philosophy of history.

7901 Introduction to Historical Research (3) Required of candidates for the M.A. degree in history. Use of bibliographical aids.

7904 American Historiography and Criticism (3) Required of candidates for the M.A. degree with concentration in American history. American historical writing from the colonial period to the present.
7910 Research Seminar in European History (3) V May be taken twice for credit when topics vary. Methods, sources, and bibliography; reports on original research.

7915 Reading Seminar in Medieval Europe (3) V

7916 Reading Seminar in Renaissance and Reformation (3) V

7917 Reading Seminar in Early Modern Europe (3) V

7918 Reading Seminar in Eighteenth-Century Europe (3) V

7919 Reading Seminar in Nineteenth-Century Europe (3) V

7920 Reading Seminar in Twentieth-Century Europe (3) V

7921 Reading Seminar in Special Topics in European History (3) V May be taken twice for credit when topics vary.

7951, 7952 Seminar in American History (3,3) Prereq: consent of instructor. Sources and bibliography; reports on original research.

7955, 7956 Seminar in American History (3,3) Prereq: consent of instructor. Sources and bibliography; reports on original research.

7981, 7982 Seminar in Latin American History (3,3) Sources and bibliography; reports on original research.

7983, 7984 Seminar in Latin American History (3,3) Sources and bibliography; reports on original research.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

HOME ECONOMICS (HEC)

In the School of Home Economics the third digit of the course number denotes the subject area of the course as follows: 1 and 2—human nutrition and food; 3 and 4—clothing, textiles and merchandising; 5 and 6—family life and environment; 9 and 0—general courses (except 7094 which is a nutrition course).

GENERAL HOME ECONOMICS

1000 Home Economics as a Profession (3) Attributes which identify home economics as a profession; historical and philosophical view of its mission, interrelationship of its various specializations, and competencies and commitments necessary in the various specializations.

3000 Seminar (1) For home economics majors; open to others with consent of instructor. The professional home economist in today's society; relationship of the various areas in home economics to the overall objectives of the field; current issues in home economics.

3091 Independent Reading and Research in Home Economics (3) Open to advanced students of high academic standing by consent of the director. May be taken twice for credit. Students are responsible for registering with a faculty member with whom they will select the area of reading and research.

4091 Special Topics in Home Economics (1-3) Prereq: consent of director. May be repeated for credit for a max. of 6 hrs. when topics vary. Lectures and/or laboratories on selected topics not covered in other home economics courses.

7900 Research Methods in Home Economics (3) Philosophy of home economics research; issues and trends; design and methodology.

7901 Independent Reading and Research in Home Economics (3) May be taken twice for credit. Directed individual reading and research in a selected area of home economics.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

CLOTHING, TEXTILES, AND MERCHANDISING

1030 Clothing and Human Behavior (3) Uses and roles of clothing and textiles as affected by economic, social, and psychological forces.

1032 Design for Living (3) 2 hrs. lecture; 2 hrs. lab. Design elements and principles related to the environment and daily living.

2035 Basic Clothing Construction (3) 1 hr. lecture; 4 hrs. lab. For students with limited experience in clothing construction. Credit will not be given for both this course and HEC 2037. Basic principles of clothing construction applied to selected practice problems and specific garment types.

2036 Intermediate Clothing Construction (3) S Prereq: HEC 2035 and 2040. 1 hr. lecture; 4 hrs. lab. Credit will not be given for both this course and HEC 2037. Principles of garment fit and pattern alteration; fabric characteristics related to garment design and construction techniques.

2037 Comparative Techniques of Apparel Production (3) Prereq: HEC 2040. Credit will not be given for both this course and HEC 2035 or 2036. Basic principles of clothing construction, pattern alteration, and fitting applied to selection of ready-to-wear apparel.

2040 Textile Science (3) Prereq: 3 hrs. credit in physical or biological sciences. Basic physiological, biological, and chemical characteristics of fibers, yarns, and fabrics; selection, maintenance, and performance of textiles.

2041 Textile Science Laboratory (1) Prereq: credit or registration in HEC 2040. 3 hrs. lab. Introduction to basic physical and chemical testing of textiles.

2044 Directed Participation in Fashion Merchandising (1-3) 1 hr. lecture; field experience. May be repeated for credit for a max. of 6 sem. hrs. when experiences vary. Pass-fail grading. Structured educational situations that provide opportunities to observe and/or participate in professional practices of various careers within the local fashion industry and throughout the U.S.

2045 Fashion and the Clothing Industry (3) Fashion origin and movement including current trends; influence of fashion and designers on apparel manufacturing.

3032 Textile Design and Decoration (3) 1 hr. lecture; 4 hrs. lab. Creative experience in structural design and surface enrichment of textiles.

3036 Basic Tailoring (3) Prereq: HEC 2036. 1 hr. lecture; 4 hrs. lab. Principles of tailoring applied to suits and coats.

3037 Pattern Design (3) Prereq: HEC 2036. 1 hr. lecture; 4 hrs. lab. Apparel design by the flat pattern method; emphasis on relationships between body form, pattern shape, and fabric interpretation.

3040 Household and Institutional Textiles (3) Prereq: HEC 2040. 2 hrs. lecture; 2 hrs. lab. Household and institutional textiles; selection, serviceability, and maintenance.

3043 Quantitative Fashion Merchandising Concepts (3) Prereq: HEC 2045, MATH 1025 and 1100, and MKT 3401;
3044 Apparel Merchandise Selection and Costing (3) Prereq: HEC 2040, 2045, and either 2036 or 2037. Factors affecting the wholesale cost of apparel; specification buying and merchandise selection.

3045 Fashion Promotion (3) Prereq: HEC 1030 and 2045. Fashion promotion and salesmanship; advertising; display techniques, public relations, and personal selling.

3046 Apparel Merchandising (3) Prereq: HEC 3043, 3044, 3045, and MKT 4431; or equivalent. Principles of buying and managing fashion merchandise.

3047 Apprenticeship in Retailing (8) Prereq: senior standing with an overall GPA of at least 2.00 on all work taken at LSU; and credit or registration in HEC 3046. 2 hrs. lecture and supervised experience in representative phases of retailing in designated Baton Rouge stores. Pass-fail grading.

4031 History of Dress and Adornment to 1500 (3) F Male and female dress and adornment from earliest times to 1500; emphasis on styles of western civilization.

4032 History of Dress and Adornment Since 1500 (3) S Male and female dress and adornment from 1500 to present; emphasis on styles of western civilization.

4035 Clothing Design—Draping (3) Prereq: 9 sem. hrs. of clothing construction courses or equivalent. 1 hr. lecture; 4 hrs. lab. Designing garments by draping on the dress form.

4038 Advanced Techniques of Clothing Design and Construction (3) Prereq: HEC 3037 or 4035. 1 hr. lecture; 4 hrs. lab. Students design and construct garments for themselves and a client; one garment adapted to factory production.

4041 History of Textiles (3) Cultural, functional, and technological developments of textiles by selected periods and countries.

4042 Textile Analysis (3) S Prereq: HEC 2041. 2 hrs. lecture; 2 hrs. lab. Fabric structures and their relationships to performance and end-use characteristics; textile product specification and standard test methods for evaluating physical, aesthetic, comfort, performance, and functional aspects of textiles.

4043 Advanced Textiles (3) F Prereq: HEC 2041. 2 hrs. lecture; 2 hrs. lab. Characteristics of natural and manmade textile fibers; physical and chemical modifications to meet consumer needs; textile dyes and finishes; methods of fiber identification and chemical testing of textiles.

4070 Entrepreneurship in the Fashion Industry (3) Prereq: senior standing or consent of instructor. Nature and requirements of independently owned, small retail institutions; external constraints, governmental regulations, and guidelines for evaluation of performance.

7031 Social-Psychological Influence in Clothing (3) Psychological and cultural factors in selection and use of clothing.

7032 Comparative Studies in World Costume (3) F Prereq: HEC 7031 or equivalent. Same as ANTH 7032. Relationship between man and dress in different cultural settings; emphasis on non-western costume; western ethnic and folk traditions in dress; impact of cultural exchange and western culture on world dress.

7041 Current Advances in Textiles, Clothing, and Fashion Merchandising (3) Pre or Coreq: HEC 7090. Analysis of scientific research in textiles, clothing, and fashion merchandising.

7042 Research in Textiles (3) 1 hr. lecture; 4 hrs. lab. Research methods applied to fabric analysis and testing; trends and recent developments.

7043 Seminar: Textiles, Clothing, and Fashion Merchandising (1) May be taken twice for credit if topics vary. Reports and discussion of current literature and research.

7044 Selected Topics in Clothing, Textiles, and Fashion Merchandising (3) Prereq: consent of instructor. May be taken twice for credit when topics vary. Analysis and discussion of selected research topics which go beyond present course offerings; topics to be announced.

7049 Advanced Individual Field Experience in Clothing, Textiles, and Fashion Merchandising (3) Pre or Coreq: HEC 7091; or consent of instructor. May be taken twice for credit if topics vary. Advanced individual, supervised, field-based study in selected areas of clothing, textiles, and fashion merchandising; emphasis on analysis, synthesis and critique of research data applicable to selected businesses, industries, agencies and institutions.

FAMILY LIFE AND ENVIRONMENT


2055 The Young Child and the Family (3) 2 hrs. lecture; 2 hrs. lab. Observations and practical experiences in classroom situations in the School of Home Economics Preschool Laboratory; growth and development of the young child; adult-child relations.

2065 Management in Personal and Family Development (3) Discussion and field experiences. Fundamental elements of management; emphasis on goal setting, normative decision making procedures, and resource identification.

3060 Family Finance (3) Prereq: ECON 2030 or AGEC 2073 or equivalent. Credit will not be given for both this course and ECON 2510. Development of bases for decision making related to family income, saving, and spending.

3061 The Family in a Consumer Society (3) Prereq: ECON 2030 or AGEC 2073 or equivalent. Family consumer opportunities and problems in contemporary society.

3062 Families and the Law (3) Federal and state "consumer bills," one's status as a family member; effectiveness of warranties and the judicial process regarding consumers' rights; responsibilities delegated to consumers.

3070 Housing Fundamentals (3) F Housing functions, choices, economics, and trends.

4050 Dynamics of Family Living (3) The family in a democratic society; emphasis on establishment and maintenance, relationships, and environmental influences.

4051 The Adolescent and the Family (3) Growth, development, and guidance of the adolescent in the home, family, and community.

4055 Principles and Practices in Kindergarten Education (3) Prereq: HEC 2055 or PSYC 2076; 2.50 gpa required for registration; same as EDCI 4055. Classroom organization and instructional management using preacademic objectives for the kindergarten as an entry point into the elementary school.

4056 Foundations of Reading Concept Development (3) Prereq: HEC 2055. 3 hrs. lecture; 2.50 gpa required for registration; experiences in the School of Home Economics Preschool Laboratory. Theories, processes, and models for the young child's concept formation; social and physical environmental factors of the family, the preschool, and society...
affecting basic cognitive processes and preparedness for reading.

4057 Methods of Teaching Nursery School and Kindergarten (3) Prereq: HEC 2055 or equivalent; 2.50 gpa required for registration; 2 hrs. lecture; 2 hrs. lab. Same as EDCI 4057. Essentials needed for successful involvement with children from various socioeconomic and cultural groups at the nursery/Kindergarten level; philosophy, teaching methods, and materials providing optimum learning experiences for the child under six.

4058 Student Teaching in the Kindergarten (5) Prereq: prior application, EDCI/HEC 4057, and credit or registration in EDCI/HEC 4055 for undergraduates; credit or registration in EDCI/HEC 4055 for students with elementary certification. 1 hr. seminar; 12 hrs. lab. 2.50 or better gpa required for registration. Same as EDCI 4058. Supervised experiences in planning and guiding children’s activities in kindergarten programs for varied cultural groups and socioeconomic levels.

4059 Student Teaching in the Nursery School and Other Early Childhood Settings (5) Prereq: prior application required: HEC/EDCI 4057. and credit or registration in HEC/EDCI 4055; 2.50 or better gpa required for registration. 1 hr. seminar; 12 hrs. lab. Supervised experiences in planning and guiding children’s activities in nursery school and other early childhood programs for varied cultural groups and socioeconomic levels.

4060 Organization and Administration of Early Childhood Programs (3) Prereq: HEC/EDCI 4057 or equivalent; 2.50 gpa required for registration. Historical, cultural, and philosophical foundations; finances, budgeting, staff duties, policies and legal aspects, equipment and physical plant, parent education and communication, public relations.

4065 Home Management (3) Senior standing recommended. 2 hrs. lecture; 2 hrs. lab. Resource creation and use, management processes and value orientations involved in family ecological systems; laboratory provides opportunity to study and observe management in family situations.

4066 Household Equipment (3) 2 hrs. lecture; 2 hrs. lab. Construction, performance, care, and selection of equipment for home use; types of energy and their relative merits.

4067 Apprenticeship in Family Service Agencies (6) Prereq: 24 sem. hrs. of home economics courses including HEC 2065, senior standing with an overall 2.50 gpa in work taken at LSU, and consent of instructor. 8 hrs. lab; 2 hrs. discussion and conference. Application must be made at registration one semester in advance of proposed enrollment. Pass-fail grading. Supervised observation and experience in an agency, institution, or business program providing services to homes and families.

7050 Research Seminar in Family Studies (1) May be taken twice for credit. Research goals and methodology.

7051 Seminar: The Family (3) The family, its change, and effects on family integration.

7052 Topics and Issues in Family Studies (3) May be taken twice for credit if topics vary. Lectures and research on topics not covered in other family life courses.

7053 Infant Behavior and Development (3) F-O Infant personality, development, and socialization; major transactions in the infant’s life; family and home; child-care facilities and caregivers; support systems within larger societies.

7054 Child Guidance and Behavior (3) S-E Normal, age-related behavior patterns; child guidance practices and their consequences; techniques and procedures for successful parenting and for improved classroom management; theoretical bases.

7055 Human Development (3) Prereq: consent of instructor. May be taken twice for credit. Dynamics of human development and practical implications.

7056 Theories of Child Development (3) Research and theory in child development; relation to the major domains in the child’s ecology—child development, the family, services, and the environment.

7058 Adulthood and Aging (3) Prereq: HEC 4050 and 7051; or equivalent. The lifespan, with emphasis on adulthood; early and middle adulthood, and old age.

7059 Parent Involvement in Early Childhood Education (3) Su Prereq: EDAF/EXST 4006 or EXST 7003. 2 hrs. lecture; 2 hrs. lab. Interpersonal relationships and involvement of parents in early childhood education programs; research and existing models of parent involvement.

7061 The Consumer in the Economy (3) Interrelationships among consumer knowledge and responsibility of the family, consumer legislation and protection, and competitive market processes.

7062 Family Financial Counseling (3) Prereq: HEC 3060. Personal, social, and legal climates affecting family financial decisions; skills designed to assist families to become self-sufficient in money management.

7065 Management of Family Resources (3) Individual and family resources, including identification and evaluation; principles of resources and management satisfaction for individuals and families.

HUMAN NUTRITION AND FOOD

1010 Introduction to Human Nutrition (3) Credit will not be given for both this course and HEC 2010. Nutrition needs of people; meeting these needs in different ways; weight control; evaluating dietary faddism.

2010 Nutrition in Health and Disease (3) Prereq: Chem. 1002 or 1202. Credit will not be given for both this course and HEC 1010. Primarily for students planning to enter the health field. Principles of normal nutrition and dietary modifications related to disease conditions.

2015 Principles of Food Preparation (3) 2 hrs. lecture; 2 hrs. lab. Basic principles and techniques of food preparation; use and comparison of available types of food products.

2016 Meal Management (3) Prereq: HEC 1010 and 2015 or equivalent. 2 hrs. lecture; 3 hrs. lab. Selection, purchase, preparation, and service of food for individuals and groups with emphasis on management functions, cost control, time management, and energy conservation.

3019 Quantity Food Production (4) Prereq: HEC 2016, and MBIO 2051 or equivalent. 2 hrs. lecture; 4 hrs. lab. Principles of food production illustrated by demonstrations, experiments, observations and laboratories; use and care of quantity production equipment; menu planning and other operational controls; safety, sanitation, and motion economy.

3020 Food Systems Purchasing (3) Prereq: AGEC 2075 or equivalent and HEC 3019 or equivalent. Development of appropriate procedures and standards for procurement, receiving, storage and allocation of food and non-food products for a quantity food service system.

4010 Human Nutrition (3) Prereq: ZOOL 2160 and 2161; BCH 2083 and 2084. Energy metabolism and the functions, requirements, and food sources of the nutrients.

4011 Nutrition and Disease (3) Prereq: HEC 4010 and BCH 2083 and 2084. Biochemical and physiological changes during disease which require clinical diet modification.
4012 Human Nutrition During the Life Cycle (3) Prereq: HEC 4010 or equivalent. Special problems in nutrition during pregnancy, infancy, early childhood, adolescence, adulthood, and later years.

4013 Clinical Diet Modification in Disease (2) S Pre or Coreq: HEC 4011 or equivalent. 1 hour lecture; 2 hrs. lab. Clinical diet modification relevant to biochemical and physiological changes during disease.

4015 Food Theory and Experimentation (3) Prereq: HEC 2015 and CHEM 2060. 2 hrs. lecture; 3 hrs. lab. Chemical and physical bases of food preparation; rationale for procedures and phenomena; evaluation of quality using experimental methods.

4016 Cultural Food Patterns (3) Prereq: HEC 1010 or equivalent. Cultural and ecological influences on the food practices of peoples.

4023 Food Systems Management (4) Prereq: HEC 3020 and MGT 3159. 2 hrs. lecture; 4 hrs. lab. Functions of management applied to food service systems in child nutrition programs, health care nutritional services, university food service programs and commercial food service facilities.

HOME ECONOMICS

2008 Individual Field Experience in Occupational Home Economics (1-3) Prereq: consent of instructor. A max. of 3 sem. hrs. of credit may be earned in each occupational area. Pass-fail grading. Individual, supervised, field-based study in selected businesses and industries; emphasis on business practices, procedures, and regulations in a specific occupational home economics area.

4003 Independent Reading and Research in Home Economics Education (1-3) Prereq: consent of director and instructor. May be repeated for a max. of 3 sem. hrs. credit. Students are responsible for registering with a faculty member with whom they will select the area of reading and research. Faculty-directed individual study.

4004 Methods in Home Economics Education for Nondiscipline Majors (3) 2 hrs. lecture; 2 hrs. lab. Open to senior and graduate home economics majors. Methods and organization of home economics programs outside the secondary school which incorporate various socioeconomic levels.

4007 Organization and Administration of Home Economics Occupational Programs (3) Prereq: VED 2001 or equivalent. Principles of operating Home Economics Related Occupational (HERO) programs; emphasis on developing student employability in wage earning areas of home economics; includes program standards, requirements, and procedures, curriculum, public relations, teaching materials, and evaluation of preparatory (in-school laboratory) and cooperative home economics programs.

4008 Advanced Individual Field Experience in Occupational Home Economics (1-3) Prereq: consent of instructor.

4024 Food Systems Equipment and Layout Design (3) Prereq: HEC 3020. 2 hrs. lecture; 2 hrs. lab. Planning of food systems layout; equipment selection and arrangement influenced by needs of the system.

7010 Food and Nutrition Seminar (1) May be taken twice for credit. Reports and discussion of current literature and research.

7011 Current Advances in Food and Nutrition (3) Recent research and developments.

7015 Nonmicrobial Deteriorative Mechanisms (3) Prereq: HEC 4015 or equivalent. Chemical, biochemical, and physical reactions involved in the deterioration of food; means of control.

7017 Advanced Human Nutrition (3) Prereq: HEC 4010 and BCH 4094. Human requirements, evaluation of nutritional status, and problems related to kind and amount of food consumed.

7018 Proteins in Nutrition (3) Prereq: BCH 4094. Nutritional aspects of proteins and amino acids; deficiencies, interrelationships, requirements, and metabolic pathways.

7094 Seminar in Nutrition (1) Same as ANSC 7094, DAR 7094, FDSC 7094, PLSC 7094. May be taken twice for credit.

EDUCATION (HEED)

A max. of 3 sem. hrs. of credit may be earned in each occupational area. Pass-fail grading. Advanced individual, supervised, field-based study in selected businesses and industries to learn management strategies, personnel supervision, promotion techniques, and executive planning in a specified occupational home economics area.

4464 Adult and Nonformal Home Economics Education (3) 2 hrs. lecture; 2 hrs. lab. Working with adults and youth in community agencies and other programs with clientele outside the formal school system.

4869 Special Topics in Home Economics Education (1-3) Prereq: consent of instructor. May be repeated for a max. of 6 sem. hrs. credit. Current practices and technological advances in vocational home economics.

7162 Program Development in Home Economics Education (3) V Principles and applied practices in developing programs in home and family life education for multicultural groups.

7164 Program Improvement in Home Economics education (3) Principles and procedures for evaluating and improving home economics programs for diverse groups.

7862 Current Problems in Home Economics Education (3) V Study of social, legislative, and educational problems.

7866 Seminar in Home Economics Education (1) May be taken 4 times for credit. Research reporting and topics of current interest.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

HONORS (HNRS)

1001 Seminar in Ancient Western Civilization (3) Prereq: ENGL 1001 or equivalent. Coreq: HNRS 1003. Credit will not be given for this course and HNRS 1101. Curricular equivalent of ENGL 1002, 1003 or a humanities elective. The ancient world; ancient Hebrew and Greek civilizations, including literature, history, philosophy, religion, government, and fine arts.
2050 General Horticulture (4) 3 hrs. lecture; 2 hrs. lab. Science and art of modern horticultural plant production, including propagation, fertilization, pest control, and pruning; major groups of garden crops including vegetables, fruits and nuts, ornamentals, houseplants, and florist crops; lab includes propagation and culture of garden plants in field and greenhouse.


2076 Foliage Plants and Greenhouse Management (3) F 2 hrs. lecture; 2 hrs. lab. Managing commercial and home greenhouses; identification and study of major greenhouse foliage plants.

3010 Research Problems (3) F,S,Su May be repeated for a max. of 6 sem. hrs. credit. Independent research under a faculty advisor culminating in an oral and written research report.

4021 Florist Crop Production (3) S Prereq: HORT 2076 or equivalent. 2 hrs. lecture; 2 hrs. lab. Principles and practices involved in production of a range of floricultural crops, including potted plants and cut flowers; post-harvest treatment and marketing practices.

4051 Processing of Fruits and Vegetables (3) Su only Prereq: FDSC 1049 or HORT 2050 or equivalent. 2 hrs. lecture; 2 hrs. lab. Methods of processing horticultural crops; includes canning, freezing, dehydration, and fermentation.

4064 Principles of Plant Breeding (4) See AGRO 4064.

4071 Nursery Management (3) F Prereq: BOTY 3060 or equivalent. 2 hrs. lecture; 2 hrs. lab. Principles and practices involved in commercial production, management, and marketing of nursery crops.

4083 Principles and Practices in Olericulture (4) F Prereq: AGRO 2051 and HORT 2050. 3 hrs. lecture; 3 hrs. lab. Review of U.S. commercial vegetable industry; seed handling, field microclimate modification, transplant handling, stand establishment, influence of soil chemical and physical properties, and greenhouse vegetable production.

4085 Principles and Practices in Fruit and Nut Production (4) S Prereq: HORT 2050 or equivalent. 3 hrs. lecture; 2 hrs. lab. Physiological principles involved in growing pomological crops; overview of state, U.S., and worldwide fruit and nut industry; marketing and production strategies.

4086 Turfgrass Management (3) See AGRO 4086.
4096 Post-Harvest Physiology (4) Prereq: PLHL 3060. 3 hrs. lecture; 2 hrs. lab. Physiological changes associated with storage and handling of fruits and vegetables; current practices used in extending shelf-life; basic and applied laboratory analysis techniques.

7010 Philosophy of Horticultural Research (3) S-O Prereq: credit or registration in EXST 7014 or equivalent. 2 hrs. lecture; 2 hrs. lab. Scientific methods in horticultural research; research support and dissemination of research results; career development in horticulture.

7020 Application of Cytogenetics to the Improvement of Crop Plants (4) Prereq: BOTY 4026 or equivalent. 2 hrs. lecture; 4 hrs. lab. Also offered as AGRO 7020. Chromosome behavior; relationships underlying inheritance of traits and influencing methods of breeding agricultural crops.


7023 Growth and Development of Horticulture Crops (3) F-E Horticultural plant constituents, their occurrence, transformation, and metabolism; changes induced in plants by variations in water, light, temperature, etc.

7025 Current Topics in Olericulture (3) S-O Survey of scientific information; emphasis on response of different crops to day length, temperature, growth regulators, etc.; fruiting and production of vegetable crops.

7026 Current Topics in Pomology (3) S-E Seminar dealing with research publications topics in pomology.

HUMANITIES (HUMN)

7000 Humanities: Methods of Inquiry (3) Interdisciplinary study in the humanities; modes of inquiry in different disciplines, common themes in the humanities, and means of integrating these into the whole.

7900 Humanities: Themes and Commonalities (3) Major ideas in the humanities as reflected in exemplary published studies and student research; the cultural function of the humanities.

INDUSTRIAL AND AGRICULTURAL TECHNOLOGY (IAT)

2001 Introduction to Internal Combustion Engines (1) F,S 3 hrs. lab. Proper and safe use of tools; fundamentals of equipment operation; trouble-shooting and general maintenance of two- and four-stroke gasoline engines.

2011 Light Building Construction Technology (3) F,S,Su 2 hrs. lecture; 3 hrs. lab. Methods and materials applied to residential, light commercial, and farm structures; use of equipment, tools, and materials in modern construction; conventional and mass production techniques; emphasis on problem solving.

2021 Metal Manufacturing Process (3) F,S 2 hrs. lecture; 3 hrs. lab. Production of metals, materials, and fabrication procedures; includes foundry, forging, separation, forming, and combining process with hand and power equipment.

2051 Occupational Safety (3) F,S,Su Identification of accident-producing conditions and practices in plant facilities, materials handling, machine safeguarding, hand tools, and occupational health.

2059 Farm and Shop Mechanics (3) F,S 6 hrs. lab. Use of hand and power tools for school and shop; maintenance of basic tools used for carpentry, sheet metal, soldering, pipe fitting, masonry, wiring, and welding.

2066 Agricultural Field Machinery (3) F,S Selection of individual and combinations of field machines based on design and operating characteristics.

2094 Agricultural Chemicals Applications (2) S Selection of safe methods of chemical application; types of equipment and chemicals; cost of use; certification of applicators.

3022 Advanced Metal Manufacturing Processes (3) F,S Prereq: IAT 2021. 2 hrs. lecture; 3 hrs. lab. Metal machine manufacturing processes and equipment; development of skills and technical knowledge using power and power-controlled equipment; forming and heat treatment of metals; foundry processes.

3024 Welding Technology (3) F,S,Su 2 hrs. lecture; 3 hrs. lab. Foundry, forging, heat treating, and practical metallurgy; machine practices involving manual and computer-controlled metal working equipment.

3061 Soil and Water Technology (3) F Prereq: MATH 1022. For majors in general studies, natural sciences, and agr-
ment for handling, drying, and storage of biological products such as grain, forage, fruits, vegetables, hay, and fertilizer.

4065 Regulatory Considerations in Occupational Safety (3) F-O Major legislation affecting the occupational safety and health field; Occupational Safety and Health Act (OSHA), Worker Compensation laws, Consumer Product Safety Act (CPSA), and Mine Safety and Health Act (MSHA).

4066 Principles of Industrial Hygiene (3) S-O Prereq: IAT 2051 and ZOOL 2160; or equivalent. Industrial hygiene related to environmental factors which produce adverse employee health.

4082 Computer Controlled Manufacturing (3) S Prereq: IAT 2000 and Math 1441 or equivalent. 2 hrs. lecture; 3 hrs. lab. Numerically controlled (NC) manufacturing equipment; relationship of material to machine; conversion of design to machine format; programming of NC machines; use of robotized sprayers and welders.

4350 Mechanical Hydraulics (3) V 2 hrs. lecture; 2 hrs. lab. Hydraulics in mechanical equipment; circuits, pumps, controls, and actuators; analysis of hydraulic circuits to determine mechanical and volumetric efficiencies and energy losses.

4981 Agricultural Mechanization Special Topics (3) F,S,Su

INDUSTRIAL EDUCATION (INED)

1001 Industrial Engines—Maintenance and Repair (3) F,S,Su 6 hrs. lab. Design, construction, operation, and maintenance procedures of industrial engines, including electrical, cooling, lubricating, and fuel systems.

2012 Woodworking Technology (3) S-O 6 hrs. lab. Advanced machine tool operations, job procedures, design and finishing.

2022 Advanced Metals (3) F,S,Su 6 hrs. lab. Founding, forging, heat treatment, and machine tool work.

2030 General Electricity (3) F,S 6 hrs. lab. Fundamental principles of electricity; direct and alternating currents.

2031 Basic Electronics (3) F,S 6 hrs. lab. Basic electronic principles and circuitry as applied to diodes, vacuum tubes, power transformers, inductors, capacitors, resistors, and rectifiers.

2040 Technical Drawing, Reading, Sketching, and Takeoff (3) F,S,Su 1 hr. lecture; 4 hrs. lab. Also offered as CONS 2040. Blueprint reading of the mechanical and building trades; freehand shop sketching, materials takeoff, and estimating.

2041 Industrial Crafts (3) V 6 hrs. lab. Techniques of art metalwork, plastics, and leather-craft.

2045 Fundamentals of Air Conditioning and Refrigeration (3) V 1 hr. lecture; 4 hrs. lab. Principles, parts, components, functions, and application of air conditioning and refrigeration systems; problems in equipment performance, operation, inspection, repair, and maintenance.

2043 Industrial Arts for Elementary Teachers (3) V 1 hr. lecture; 4 hrs. lab. Organization and construction of handicraft activity units and methods of correlating with subject matter of elementary grades.

2055 Occupational Analysis Techniques (3) F Essential elements of an occupation or activity identified for purposes of job classification and instruction.

2057 Methods of Teaching Industrial Subjects (3) S Application of recognized methods of teaching.

3061 Industrial Supervisory Practice (3) F,S The supervisor as a key person in the industrial organization; duties, responsibilities, and successful supervisory practices.
study under the direction of the graduate faculty.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

4049 Engineering Maintenance Management (3) Prereq: IE 2154 and 4510. Design, operation, and monitoring of a system to efficiently control maintenance costs; maintenance organization and systems, preventive maintenance, maintenance planning and scheduling, maintenance work measurement, labor performance measures, and spare parts.

4510 Operations Research in Engineering (3) Prereq: MATH 2085 or 2090 or equivalent; and credit or registration
451 Industrial Simulation (3) Prereq: IE 4510 and either IE 2060 or CSC 1241; or equivalent. 2 hrs. lecture; 3 hrs. lab. Also offered as QBA 4511. Computer used to simulate operating characteristics of industrial systems in time; problems encountered in constructing simulation programs applied to industrial plant operations and service-industry systems.

4516 Plant and Systems Design (3) Prereq: IE 3201, 4425, and 4510. Machine loading, assembly balancing techniques, design of physical-manufacturing systems, integrating materials-handling systems into the plant, design of plant-service systems, site and plant location, and projects involving plant design using optimization techniques.

4540 Reliability Engineering (3) Prereq: IE 3302. Reliability in design; reliability models; reliability assessment during pre-production development and testing; and special problems in maintenance, spare parts, and Markov processes.

4607 Industrial Relations (3) Prereq: senior standing. Industrial organization; personnel forecasting; sources, selection, appraisal, and evaluation; training, compensation, and motivation; labor relations including contract negotiation, administration, and grievance handling.

4785 Special Topics in Industrial Engineering (3) Prereq: senior standing. May be taken twice for credit. Two sections may be taken concurrently if topics vary. Topics in industrial engineering not sufficiently covered in other undergraduate courses.

7201 Advanced Engineering Economy (3) Prereq: IE 3201 or equivalent. Engineering economic analysis, multiple projects and constraints, utility in project selection, preference ordering theory, and capital equipment pricing theory.

7211 Project Engineering (3) Prereq: IE 3201 or equivalent. Large-scale engineering construction or development projects from schematic to online condition.

7408 Industrial Systems Simulation (3) Prereq: IE 4510 and ME 4533; or equivalent. Design, testing, and operation of mathematical models to simulate industrial systems.

7425 Advanced Industrial Engineering Information Systems (3) Prereq: IE 4425 or equivalent. Concepts in systems analysis and systems design with emphasis and assignments related to these industrial engineering functions; includes data processing applications, computer-aided manufacturing applications, and other computer-based decision support systems.

7453 Advanced Quality Control (3) Prereq: IE 4453 or equivalent. Advanced procedures of statistical quality control, statistical analysis of quality control data, economic aspects of quality assurance, human element in quality control, and relationship of quality control to productivity and to ability of American products to compete in world markets.

7461 Ergonomics in Work Design (3) Prereq: IE 4461 or equivalent. 2 hrs. lecture; 3 hrs. lab. Introduction to anthropometry, functional anatomy and physiology, and their application in work design and task assessment.

7463 Industrial Hygiene Engineering (3) Prereq: IE 4461 or equivalent. Evaluation and control of industrial environments; noise, illumination, vibration, radiation, pressure, water and air contaminants, and heat and cold.

7464 Work Physiology (3) Prereq: IE 4461 or equivalent. Study of worker's physiological responses = m cardiovascular, pulmonary, muscular = m work applicable to task design and evaluation, employee selection and placement, and work-rest scheduling.

7465 Occupational Biomechanics (3) Prereq: IE 4461 or equivalent. Principles of biomechanics applied to human movement; applications to work systems such as manual materials handling and tool design.

7466 Human Interaction with Computers (3) Prereq: IE 4461 or IE 4466 or equivalent. Ergonomics of the use of interactive computer systems; general characteristics and requirements of people-oriented computer systems from the perspective of different disciplines and tasks, e.g., text editing.

7470 Artificial Intelligence Manufacturing Systems (3) Prereq: IE 4425 or equivalent. Application of artificial intelligence tools and techniques to computer integrated manufacturing systems including maintenance, product design, process planning, factory scheduling and control, robotics, and intelligent warehouse systems.

7480 Automation and Computer-Aided Manufacturing (3) Prereq: IE 2603, IE 3201, and MATH 1552; or equivalent. Automated flow-line production, numerical control, industrial robots, computer-aided manufacturing, process monitoring and control, group technology, flexible manufacturing systems, and material requirements planning.

7485 Advanced Microcomputer Applications (3) Prereq: IE 4485 or equivalent. 2 hrs. lecture; 3 hrs. lab. Advanced topics in microprocessors/microcomputer control in manufacturing; input/output design; interfacing; hardware and software considerations.

7490 Advanced Maintenance Management (3) Prereq: IE 4490 and 4510; or equivalent. Statistical and operations research applied to maintenance management.

7541 Analysis of Industrial Operations (3) Prereq: IE 4510 or equivalent. Industrial operations research problems; emphasis on quantitative tools of problem analysis; methods, need for data, difficulties, action, and associated results.

7551 Industrial Queuing and Inventory Models (3) Prereq: IE 4510 or equivalent. Industrial waiting-line problems including interference, equipment utilization, and maintenance theory; inventory models including industrial scheduling and reorder systems.

7561 Programming Methods in Operations Research (3) Prereq: IE 4510 or equivalent. Aspects of advanced programming methods for unconstrained and constrained problems; development of goal, zero-one, gert, and multiple objective programming with application to industrial processes and planning.

7642 Administration of Engineering and Technical Personnel (3) Prereq: consent of instructor. Also offered as CHE 7302. Problems encountered by engineering personnel in administering other engineers and/or technical personnel; human relations; engineer as leader, supervisor, and administrator; wage and salary administration.

7720, 7721 Industrial Engineering Problems (3, 3) Student interest in specialized industrial engineering areas such as design and analysis of complex production control, maintenance, quality control, reliability, and work-measurement systems.

7899 Seminar (1) All industrial engineering graduate students are expected to enroll every semester. Only 1 sem. hr. of credit allowed toward degree. Pass-fail grading.

8000 Thesis Research (1-12 per sem.) 'S'/'U' grading.
INTERIOR DESIGN (ID)

1051 Introduction to Interior Design (3) Contemporary practice of interior design as a profession; responsibilities of the interior designer.

1153 Architectural Basic Design (3) See ARCH 1153:

2720 Materials and Furnishings for Interior Design (3) F only Prereq: sophomore standing in the major. Materials, finishes, furnishing types and sources available to the interior designer.

2722 Interior Design Awareness I (3) Not open to interior design majors. Discipline of interior design; principles presented in historical and philosophical contexts; analysis of the use of spatial elements.

2750 Interior Design (3) F Prereq: admission to professional program and concurrent enrollment in ARCH 2151. 1 hr. lecture; 5 hrs. lab. Structured freehand drawing and quick-sketch techniques for decision making in interior design.

2751 Interior Design (3) S only Prereq: ARCH 2151 and ID 2750. 1 hr. lecture; 5 hrs. lab. Aesthetic and spatial decisions analyzed within the context of the interior environment; creative problem solving and communication techniques.

3720 Seminar in Interior Design (3) Prereq: consent of instructor. May be taken twice for credit when topics vary. Special topics not covered in other interior design courses.

3721 Home Planning (3) 2 hrs. lecture; 2 hrs. lab. Not open to interior design majors. Readings, trips, and practical studio problems. Basic principles of design applied to housing; domestic planning and use of materials.

3722 Interior Design Awareness—II (3) Prereq: ID 2722. 2 hrs. lecture; 2 hrs. lab. Not open to interior design or architecture majors. Graphical exercises in the identification of personal needs in interior space, spatial relationships, development of individual expression and objectivity; emphasis on residential space.

3741 History of Interior Design and Decoration—I (3) F-O Interiors, interior architecture, furnishings, and cultural influences of the times, ancient through 17th century.

3742 History of Interior Design and Decoration—II (3) F-E Interiors, interior architecture, furnishings, and cultural influences of the times from 17th century to the present.

3751 Furniture Design (4) Prereq: ID 3752 and consent of instructor. 1 hr. lecture; 7 hrs. lab. Design, materials, construction, and production of interior components.

3752 Interior Design Studio—I (4) F only Prereq: ID 2751 or equivalent. Nonmajors by consent of instructor only, 1 hr. lecture; 6 hrs. lab. Design process involved in programming, space planning, analysis, communication, specification, and construction of interior spaces.

3753 Interior Design Studio—II (4) S only Prereq: ID 3752. Nonmajors by consent of instructor only. 1 hr. lecture; 6 hrs. lab. Interior design problems of a complex nature stressing interrelationship of multiple interior spaces, their equipment, and furnishings.

3754 Interior Design Studio—III (4) F only Prereq: ID 3753. For interior design majors only. 1 hr. lecture; 6 hrs. lab. Advanced interior design problems; experimental and innovative concepts; barrier-free design and behavioral responses to interior design.

3755 Interior Design Synthesis (6) S only Prereq: ID 3754. For interior design majors only. 12 hrs. lab. Individually prescribed advanced interior design study.

3759 Special Studies in Interior Design (1-6) Prereq: consent of instructor. May be repeated for credit for a max. of 6 sem. hrs. Advanced studio work in predetermined areas of specialization.

3760 Professional Practice (3) Prereq: senior standing in the major. Business practices for the interior designer; design contracts, office management, team projects; control, coordination, and supervision of service agencies.

3770 Color for Interior Spaces (3) S only Prereq: ID 2751 or equivalent; nonmajors by consent of instructor only. 1 hr. lecture; 4 hrs. lab. Nature, theories, and application of color.

3771 Lighting for Interior Spaces (3) F only Prereq: junior standing for interior design majors; nonmajors by consent of instructor only. 1 hr. lecture; 4 hrs. lab. Qualitative and quantitative aspects of lighting; application to interior design.

ITALIAN (ITAL)

Italian courses marked with an asterisk (*) may not be taken for credit by native speakers of Italian.

*1001 Elementary Italian (5) F,S,Su Oral approach, with a minimum of formal grammar; emphasis on conversation, supplemented by aural-oral drill in the language laboratory.

*2051 Intermediate Italian (5) F,S Oral approach, supplemented by aural-oral drill in the language laboratory; reading material of moderate difficulty.

*2053 Intermediate Italian (3) F,S Continued audio-lingual drills, reading, vocabulary building, and review of basic principles of Italian grammar.

*2055 Readings in Italian Literature (3) Readings in contemporary and older literature of Italy; emphasis on comprehension as well as oral and written expression.

2061 Advanced Italian Grammar (3) For students majoring in Italian. Italian grammar and syntax.

2062 Advanced Italian Composition (3) Prereq: ITAL 2061. Drill in original descriptive and narrative composition in the language; style, syntax, idioms, and verb forms.

2071 Survey of Italian Literature (3) Development of Italian literature from the beginnings to the Renaissance.

2072 Survey of Italian Literature (3) Continuation of ITAL 2071; principal authors and literary movements from the Renaissance to the present.

3001 Italian Culture and Civilization (3) Taught in Italian. Italian culture and civilization; emphasis on understanding contemporary Italy.

4051 Dante (3) Dante, with emphasis on the Inferno.

4052 The Renaissance (3) Literary origins and productions of the Italian Renaissance; writings of Petrarch, Boccaccio, Lorenzo de' Medici, Poliziano, Sammazaro, and Ariosto.

4915 Independent Work (1-3) F,S,Su May be repeated for a max. of 3 sem. hrs. credit. Readings in Italian literature directed by a senior faculty member.

7971, 7972 Seminar (3, 3) Old Italian language and pre-Renaissance literature; Italian literature of the 18th and 19th centuries.
JAPANESE (JAPN)

3001, 3002 Elementary Japanese (5,5) Available only to students having no prior experience with Japanese. Cannot be used to satisfy an undergraduate foreign language requirement.

JOURNALISM (JOUR)

1700 Introduction to Broadcast Media (3) Y Also offered as SPCM 1700. Structure and function of electronic media including history, regulation, social significance, and responsibilities.

2090 Introduction to the Mass Media (3) F,S,Su American mass media; development, structure, problems, and opportunities; mass communications theory and processes.

2091 History of American Journalism (3) Y Major developments in newspapers from colonial times to the present; history of news broadcasting from the 1920's to the present.

2095 Graphics of Communication (3) F,S Prereq: minimum of 24 hrs. with 2.50 gpa. Creative and practical aspects of typography; layout and design of visual communication through print and electronic media.

2151 Media Writing (3) F,S,Su Prereq: 'B' or better in ENGL 1002 or English proficiency as certified by the College of Arts and Sciences English proficiency test or the English Writing Lab. Typing ability of about 35 words per minute recommended. 1 hr. lecture; 4 hrs. lab. Locating sources of news; interviewing and note-taking; evaluating and organizing facts; writing basic kinds of news stories using wire service style.

2152 News Reporting (3) F,S,Su Prereq: 'C' or better in JOUR 2151. 2 hrs. lecture; 2 hrs. lab. Specialized kinds of news stories; assignments include reporting campus news for The Daily Reveille.

2155 Radio Production (3) F,S Prereq: 'C' or better in JOUR 2151 and at least 2.50 gpa. 1 hr. lecture; 4 hrs. lab. Also offered as SPCM 2720. Principles of radio production and performance; operation of studio and location broadcast equipment; audio-tape editing techniques; writing; equipment operation; program and sales production; announcing.

2156 Broadcast Newswriting and Reporting (3) F,S Prereq: 'C' or better in JOUR 2151 and 2705; gpa of at least 2.50. 2 hrs. lecture; 2 hrs. lab. Writing news stories using specialized broadcast news format; techniques of reporting for radio and television; reporting news for KLSU radio.

3000 Principles of Public Relations (3) Y Pre req: gpa of at least 2.50. Mass communication techniques applied to theories and principles of the public relations function.

3001 Business Journalism (3) V Writing for and editing house magazines, trade journals, and miscellaneous industrial publications; business news reporting for the daily newspaper.

3002 Feature Writing (3) F,S Prereq: JOUR 2151 and 2152. Developing and writing feature stories, vignettes, and other human-interest material.

3030 Principles of Advertising (3) F,S,Su Fundamentals of advertising theory and practice; social and economic role of advertising; functions of advertising in marketing and communication.

3031 Advertising Writing (3) F,S Pre req: JOUR 2151 and 3030. 2 hrs. lecture; 2 hrs. lab. Techniques in the creation of advertising messages; writing strategic reports and finished copy for electronic and printed media.

3065 Photojournalism (3) F Pre req: at least a 2.50 gpa and 'C' or better in JOUR 2151; 2 hrs. lecture; 2 hrs. lab. Photographic principles for communication media.

3150 News Editing (3) F,S Pre req: 'C' or better in JOUR 2151 and 2152. 1 hr. lecture; 4 hrs. lab. Selecting, evaluating, and processing news copy; copy editing, headline writing, and newspaper makeup.

3151 Advanced Reporting (3) F,S Pre req: 'C' or better in JOUR 2151, 2152, and 3150. 2 hrs. lecture; 3 hrs. lab; individually arranged hours conducted at The Morning Advocate/State-Times. Reporting news for The Morning Advocate/State Times.

3700 Telecommunications Law, Regulation, and Public Policy (3) V Pre req: JOUR 1700 or equivalent. Also offered as SPCM 3700. Development of telecommunications media law and regulation through case studies relating to the Federal Communications Act; rules and policy decisions of the Federal Communications Commission and other regulatory bodies; emphasis on current legal issues affecting the telecommunication media; legal documents and literature.

3705 Radio News (3) F,S Pre req: 'C' or better in JOUR 2151, 2705 and 2710. 1 hr. lecture; 4 hrs. lab. Advanced writing and reporting for radio; news gathering techniques; reporting for KLSU radio.

3710 Telecommunications History (3) V Also offered as SPCM 3710. Technical, corporate, economic, regulatory, and programming history of telecommunications media in the U.S.; contributions of key individuals throughout development of telecommunications media in America.

3720 Television Producing and Directing (3) F,S Pre req: 'C' or better in JOUR 2151, 2705, and 2710. 2 hrs. lecture; 3 hrs. lab. Also offered as SPCM 3720. Producing and directing programs for television; basic set design; lighting; operation of studio cameras; microphone use and sound production; operation of studio and control room equipment.

3740 Television News (3) F,S Pre req: 'C' or better in JOUR 2710 and 2730. 1 hr. lecture; 4 hrs. lab. Advanced writing and reporting for television; news gathering techniques; use of video cameras/recorders and video editing equipment; in-studio news presentations.

3750 Reporting Public Affairs for Broadcast (3) F,S Pre req: 'C' or better in JOUR 3705 and 3740. 2 hrs. lecture; 2 hrs. lab. Advanced reporting for radio and television; news coverage of government, courts, education; assignments for KLSU radio.

3998 Practicum (3) F,S,Su Pre req: 3.00 gpa in 12 or more hrs. of journalism; 2.75 gpa overall average; and consent of practicum advisor and school director. Pass-fail grading. At least 15 hours of work a week (28 hrs. in a summer term) under general supervision of a faculty member and direct supervision of a professional in some field of journalism or communication (advertising or public relations agency, newspaper, magazine, journal, or broadcasting station).

4001 Public Relations Writing (3) Y Pre req: gpa of at least 2.50; JOUR 2151 and 3000; and either a grade of 'B' or better in ENGL 1002 or completion of the college English proficiency requirement. Typing ability of 35 words/minute recommended. 2 hrs. lecture; 2 hrs. lab. Developing and writing news releases, speeches, audio-visual scripts, feature stories, and other public relations communications.

4004 Case Studies in Public Relations (3) Y Pre req: gpa of at least 2.50 and JOUR 3000. Theoretical concepts of public
relations practice applied to solution of strategic business, institutional, and organizational problems.

4005 Public Relations Campaigns (3) V Prereq: gpa of at least 2.50 and JOUR 3000 and 4001. 1 hr. lecture: 4 hrs. lab. Developing and implementing public relations communication campaigns; hands-on experience in designing and producing print and audio-visual materials for campaigns; emphasis on use of planning and evaluation techniques.

4010 Magazine Editing and Production (3) Y Prereq: JOUR 2095 and 3152; or consent of instructor. Magazine project required. Techniques of magazine editing and production; analysis of magazine industry and specific magazines and their audiences; editorial objectives and formulas, issue planning, article selection, layout, illustration, typography, printing, and circulation.

4011 Scholastic Journalism (3) Basic journalism techniques and instructional methods for teachers of scholastic journalism; duties of advisors for newspapers and yearbooks.

4031 Advertising Design (3) F,S,Su Prereq: JOUR 2095, 2151, 3030, and 3031. 2 hrs. lecture; 2 hrs. lab. Advertising design techniques for print and electronic media; development of layouts and storyboards; emphasis on creative approaches to advertising problems.

4034 Advertising Media Analysis and Planning (3) F,S Prereq: JOUR 3030. Major analytical plan on current marketing problem required. Quantitative study of techniques and procedures used in determining advertising media selection, budget allocation, and levels of message intensity.

4035 Retail Advertising and Sales (3) Y Prereq: “C” or better in JOUR 3030 and 3031. 2 hrs. lecture; 2 hrs. lab. Retail advertising sales and management; layout and copywriting for retail businesses; advertising production; accounting procedures; case problems.

4036 Advertising Campaigns (3) F,S,S Prereq: JOUR 3030, 4031, and 4034. 2 hrs. lecture; 2 hrs. lab. Team development of advertising campaigns on a competitive basis (simulated advertising agency operation); emphasis on research marketing and advertising problems, budgetary planning, media strategy, and creative design.

4081 Opinion Journalism (3) Y Prereq: JOUR 2151 and 2152. Analysis of various forms of journalistic writing which involve subjective expression: interpretive reporting, news analysis, essays, editorials and columns, critical reviews, and interviews.

4082 Mass Media Law (3) F,S,Su Prereq: gpa of at least 2.50.

4085 Newspaper Management (3) Y General management principles applied to publishing newspapers.

4092 Problems of Contemporary Journalism (3) F,S,Su Prereq: gpa of at least 2.50. Problems in publishing and broadcasting news, opinion, and advertising; roles and responsibilities of the journalist, including journalistic ethics; media criticism.

4093 HONORS: Problems of Contemporary Journalism (1) V Coreq: JOUR 4092 for students enrolled in departmental honors program. Open to other qualified students with consent of instructor. Discussion and analysis of selected contemporary problems in the publishing and broadcasting of news, editorial material, and advertising.

4103 Comparative Media Systems (3) World mass media; news agencies, communication organizations, differing philosophies, international news flow, and political, economic, cultural, and geographical influences.

4141 Public Affairs Reporting (3) F,S Prereq: JOUR 3150. 2 hrs. lecture; 2 hrs. lab. News coverage of public affairs, such as news of the courts and government; assignments with local newspapers and broadcast media.

4170 Television and Radio Writing (3) V Also offered as SPCM 4170. Form and substance of various program types: basic forms of program continuity, promotional and public service announcements, and documentary and dramatic programs for television and radio.

4170 Broadcast Management (3) V Prereq: JOUR 1700. Also offered as SPCM 4170. Problems of managing a radio and television station; general management, programming, sales; engineering matters related to management.

4720 Broadcasting and Society (3) F Also offered as SPCM 4720. Interrelationship of broadcast media and society; social impact of selected kinds of broadcast programming; effects of the broadcast industry, broadcast regulatory bodies, and public interest groups upon one another.

4730 Advanced Television Production and Directing (3) V Prereq: JOUR 3720 and consent of instructor. Also offered as SPCM 4730. Planning, developing, and producing original television productions; studio and control-room work.

4971 Special Topics in Mass Communication (3) V Prereq: consent of instructor. May be taken twice for credit when topics vary. Also offered as SPCM 4971. Analysis and discussion of a selected topic which goes beyond present advanced course offerings; topics to be announced.

4999 Independent Study (3) F,S,Su Prereq: a gpa of at least 3.00 and consent of school director. Approval of written proposal required before enrolling. Pass-fail grading. Readings, projects, conferences, and reports under faculty direction.

7001 Research Methods in Mass Communication (3) F Methods common to most types of communications research; case studies, audiences, agencies of mass communications.

7005 Public Opinion (3) Y Formation and development of public opinion; role of the press in influencing thought and action.

7006 Public Relations Practices (3) Formal and informal models used to formulate and design tasks in the management activities of public relations and its role in social systems.

7007 Public Relations Administration (3) Principles of public relations management and application of project research techniques; strategies of campaign setting; planning, organizing, staffing, leading, and controlling.

7008 Public Relations Programming and Production (3) Prereq: JOUR 2151 and 3152 or equivalent media writing proficiency. 2 hrs. lecture; 2 hrs. lab. Writing and production of public relations messages for print and broadcast and program proposals; practice in writing, graphic design and layout of messages.

7010 Seminar in Communications Literature (3) Y Basic issues and problems in journalism and mass communications as highlighted in relevant journals and books; journal articles and books of a catalytic nature.

7011 Seminar in the American Magazine (3) Role of the magazine in American society from 1741 to the present; problems of publishing and editing; structure of the magazine industry in the U.S.; emphasis on recent history.

7015 Mass Communications and Society (3) Y Roles of the mass media; responsibilities and rights of the communicator; interaction of mass media and society.

7016 International Mass Communications (3) F How nations get their news; organization and operation of press associations, newspapers, magazines, radio, and television.

7017 Media Industries and Behavior (3) Y How industry structures in various media influence decision making; effects
of competition and monopoly on media behavior; economic performance in media and its effect on content.

7018 Legal Problems of the Mass Media (3) F Specific current legal problems affecting the mass media; basic principles of legal research methods.

7020 Electronic Media Systems (3) Integration of traditional electronic media with new media systems; political, economic, and regulatory matters; emphasis on cable television.

7021 Mass Communication Theory (3) S The communication process; attention, perception, effects on individuals and society; beginnings and development of symbolic communication and divergence of language systems; relation of language to thought processes; uses of language in mass communications.

7026 Issues in Advertising (3) Y Exploration of socio-economic, legal, ethical and cultural issues related to advertising as an institution.

JUNIOR DIVISION (JD)

0003 Study Skills (3) Not for degree credit. Pass-no credit grading. Basic learning principles; time management, goal setting, note-taking, listening skills, reading for retention, report writing, preparing for and taking tests, and study techniques; human development exercises, simulations, and discussions to promote self-esteem.

0006 Study Skills (2) 1 hr. lecture; 1 hr. lab. For students in Student Support Services Program only. Not for degree credit. Pass-no credit grading. Basic learning principles; includes time management, goal setting, note-taking, listening skills, reading, theme and report writing, memory, and analyzing study problems.

0010 Developmental Reading— I (4) 4 hrs. lecture and individualized instruction. For students whose diagnostic tests indicate a reading level below 9.0. Not for degree credit.

LANDSCAPE ARCHITECTURE (LA)

1151 Introduction to Landscape Architecture (3) Concerns and responsibilities of landscape architects; overview of the profession; elements and processes of design, and examples of public and private design work.

1153 Basic Design for Landscape Architecture (3) 1 hr. lecture; 4 hrs. lab. Two- and three-dimensional design; two-dimensional surfaces and three-dimensional spaces; materials, time, and meaning in design.

1181 Landscape Architectural Graphics (Freehand) (3) 1 hr. lecture; 4 hrs. lab. Freehand drawing skills and techniques used in illustrating components of the landscape; landscape elements as separate objects; composition and rendering of elements in combination.

1182 Landscape Architectural Graphics (Mechanical) (3) 1 hr. lecture; 4 hrs. lab. Technical drawing for the landscape architect; measured, scaled, and dimensioned drawings to illustrate components of the landscape and landscape materials; use of plans, sections, elevations, isometrics, and orthographic projections.

1651 Introduction to Recreation (3) Same as HPRD 1700. Historical and philosophical foundations of leisure and recreation in modern society; team efforts of landscape architects and recreation specialists in planning, designing, and management of recreational space and programs.

2111 Survey of Landscape Architecture (3) Primarily for non-landscape architecture majors. Awareness and appreciation of home and community problems which can be resolved by landscape architects.

2112 Ecology in Landscape Architecture (3) Ecological principles and relationships as basis for resource, recreation, and landscape planning; natural systems and the interaction between natural and man-made elements of the environment; environmental and conservation ethics.

2121 Plant Materials (3) 1 hr. lecture; 4 hrs. lab. Identification and study of plant materials; ecological and visual characteristics of plants-used in landscape design.

2141 Landscape of the Ancient World (3) Development of the earliest landscape traditions; relationship of man to the landscape in the major culture areas of the ancient world.

2142 The Landscape of Western Civilization (3) LA 2141 recommended. Development of landscape traditions in western Europe and America from the 5th to the 20th centuries.

2143 The Contemporary Landscape (3) LA 2141 and 2142 recommended. Major landscape movements of the 20th century; various aspects of the contemporary practice of landscape architecture.

2145 Historic Preservation for the Landscape Architect (3) Theory and practice of historic preservation as a component of the landscape architect’s responsibility for resource management, analysis, management, and design methodology for cultural resources.
2151 Site Planning Principles (3) 2 hrs. lecture; 2 hrs. lab. Principles of site planning; site sensitivity; source material and design methods; site standards; roles of those concerned with site planning.

2152 Landscape Design Theory (3) Prereq: LA 1153 or equivalent. 2 hrs. lecture; 2 hrs. lab. Application of basic design concepts to landscape architectural design; design processes; sensitivity to role of site, client, materials, and designer.

2171 Landscape Architectural Implementation: Materials (3) Prereq: LA 1182 or equivalent. 2 hrs. lecture; 2 hrs. lab. Technical concepts, materials, and products used in landscape architecture; properties of materials and methods of construction.

2183 Landscape Architectural Design Graphics (2) Prereq: LA 1181 and 1182; or equivalent. 4 hrs. lab. Graphic techniques, tools, and methods used in landscape architectural analysis and design; communication of design ideas.

2652 Evolution of Park and Recreation Planning (3) History of parks in the U.S. from earliest developments to the present; interrelationships of cultural influences.

3000 Landscape Architecture Computer Applications (3) 1 hr. lecture; 4 hrs. lab. Microcomputers in the landscape architect's office; use of small systems and common software.

3122 Plant Materials in Design (3) Prereq: LA 2121 or equivalent. 1 hr. lecture; 4 hrs. lab. Identification and study of plant materials as landscape design elements integrated with and related to theoretical aspects of planting design.

3153 Detail Design (4) Prereq: LA 2121 and 2152; or equivalent. 8 hrs. lab. Comprehensive landscape architectural design; use of earth, structural materials, plants, and other elements.

3154 Site Design (4) Prereq: LA 2151 and 3153; or equivalent. 8 hrs. lab. Arrangement of buildings, circulation, and other landscape design elements; design processes and conceptualization.

3173 Landscape Architectural Implementation: Grading (4) Prereq: LA 2171, MATH 1015 or 1022, and either BAE 2307 or CE 2500 and 2510; or equivalent. 2 hrs. lecture; 4 hrs. lab. Topographic grading, earth volume estimation, and horizontal and vertical roadway alignment.

3174 Landscape Architectural Implementation: Structures (4) Prereq: LA 3173 or equivalent. 2 hrs. lecture; 4 hrs. lab. Design, technical layout, and construction of site structures; specialized aspects such as structural mechanics, wood construction, and retaining walls.

3183 Applied Landscape Architectural Graphics (2) Prereq: LA 2183 or equivalent. 4 hrs. lab. Design and presentation graphics applied to landscape architectural design projects.

4000 Integrated Studio (4) Prereq: consent of instructor. 8 hrs. lab. Project-oriented design studio for landscape architects, architects, and other design majors. Integration of various design professions and student levels on a comprehensive design project.

4112 Environmental Issues in Design (3) Institutional factors and relationships as they affect resource, recreation, and landscape planning and design; assessment and mitigation of the environmental impact of design activities.

4156 Planting Design (3) Prereq: LA 3122 and 3154; or equivalent. 1 hr. lecture; 4 hrs. lab. Plant arrangement for a series of landscape design projects from detailed to regional scale.

4157 Site Master Planning (4) Prereq: LA 3154 and 3173; or equivalent. 8 hrs. lab. Arrangement of complex multiple land uses, buildings, circulation, and other landscape design elements; design processes and conceptualization.

4158 Landscape Architectural Design Implementation (6) Prereq: LA 4156, 4157, and 4175; or equivalent. 2 hrs. lecture; 8 hrs. lab. Synthesis of previous design and construction courses; preparation of sets of design and construction drawings for larger scale projects through an integrated design implementation approach.

4175 Landscape Architectural Implementation: Systems (4) Prereq: LA 3173 or equivalent. 2 hrs. lecture; 4 hrs. lab. Design, technical layout, and construction of site systems; drainage, irrigation, and utilities.

4183 Advanced Landscape Architectural Graphics (4) Prereq: LA 3183 or equivalent. 8 hrs. lab. Professional quality presentation techniques; model building, computer graphics, video, graphic media.

4184 Communication Media in Landscape Architecture (3) Prereq: LA 2183 and 3153; or equivalent. 2 hrs. lecture; 2 hrs. lab. Use of various media to promote exchange of ideas and attitudes among designers; communication of design to the public.

4191 Independent Studies in Landscape Architecture (1-6) May be repeated for a max. of 6 sem. hrs. credit. Problems in landscape architecture adapted to specific needs of students.

4195 Field Studies in Landscape Architecture (1-3) May be repeated for a max. of 9 sem. hrs. credit. Nonrefundable deposit of $100 required at registration. Additional amount required for transportation may be nonrefundable. Balance due no later than one month prior to departure. Field trips to landscape architectural offices, projects, and schools throughout the U.S. and abroad; discussions with professional landscape architects and with students and faculty of other universities to promote exchange of ideas and to observe professional practice.

4250 Comprehensive Design (6) Prereq: LA 4158 or equivalent. 12 hrs. lab. Comprehensive design package relating site planning and detail design with implementation documents.

4251 Design Specialization (6) Prereq: LA 4158. 12 hrs. lab. Approaches to specialized design projects developed around faculty expertise and/or emerging design opportunities.

4252 Independent Study Project (6) Prereq: LA 4158. 12 hrs. lab. Execution of a project selected by the advanced student with guidance of an advisory committee; credit for work in the academic setting or for structured study away from campus.

4276 Landscape Architectural Professional Practice (3) Legal, business, and professional aspects of landscape architectural practice; significance of orderly, ethical procedures in the relationship of landscape architect to clients, contractors, and other consultants.

4291, 4292 Specialized Aspects of Landscape Architecture (2,2) Prereq: consent of instructor. Advanced research, design, and discussion.

4654 Areas and Facilities for Recreation (3) 1 hr. lecture; 6 hrs. lab. Design and management of recreation areas.

5101 Landscape Graphics (2) 4 hrs. lab. Freehand and mechanical graphic techniques, tools, and methods used in illustrating landscape design projects; quick perspective sketching and drafting techniques; application of orthographic projections and the development of a visual vocabulary.

5102 Presentation Graphics (2) 2 hrs. lab. Application of design and presentation graphics to landscape architectural design problems; paired with design studio; emphasis on visual
communication of design ideas through the use of various media.

5123 Landscape Plant Materials (3) 1 hr. lecture; 4 hrs. lab. Identification and study of ornamental plants with special emphasis on their visual characteristics.

5124 Planting Design (3) 1 hr. lecture; 4 hrs. lab. Development of skills in planting design using a series of projects at various scales and levels of detail; visual characteristics and ecological value of plants and conceptual attitudes behind their use.

5141 History of Landscape Architecture (3) Landscape development in western civilization from the earliest cultures through the 19th century.

5142 History of Landscape Architecture (3) Landscape development in the 20th century; evolution of Oriental attitude toward the landscape and contrasts in viewpoint with western civilization.

5151 Landscape Design—I (6) 6 hrs. lab. Basic two and three dimensional design concepts; art elements and principles applied to landscape design; landscape design materials and processes.

5152 Landscape Design—II (4) 8 hrs. lab. Approaches and techniques of site design problems; use of site analysis, design program information, and elements of design form; refinement of visual and verbal techniques of communication.

5153 Landscape Design—III (4) 8 hrs. lab. Approaches and techniques of site and master planning; emphasis on methods of solving design problems; use of site analysis techniques and land use program information; refinement of plan resolution and detail design elements.

5171 Landscape Construction—I (3) 2 hrs. lecture; 2 hrs. lab. Materials and methods of landscape construction; investigation of materials, structural systems, and construction practices in current use.

5172 Landscape Construction—II (4) 2 hrs. lecture; 4 hrs. lab. Development and refinement of knowledge and skill of topographic grading, drainage, earth volume estimation, and roadway alignment.

5173 Landscape Architecture Construction—III (4) Prereq: LA 5172 or equivalent. 2 hrs. lecture; 4 hrs. lab. Comprehensive site engineering problems; synthesis and utilization of previous design and engineering courses; enhancement of skills in design, technical layout, and construction of site structures and systems.

5191 Landscape Architectural Research (3) Prereq: EXST 4011 or equivalent. 2 hrs. lecture; 2 hrs. lab. Research overview and processes related to needs of landscape architects; approaches to research problems; skills needed to conduct research; selection and use of data sources; review of landscape architecture research; application of research to landscape design.

7174 Landscape Architectural Professional Practice (3) 2 hrs. lecture; 1 hr. recitation. General, legal, business, and professional aspects of landscape architectural practice; significance of orderly, ethical procedures in relationships of landscape architect, client, and contractor; the landscape architect’s responsibility to the public.

7352 Advanced Design Studio (4) 8 hrs. lab. May be repeated for a max. of 12 sem. hrs. Comprehensive design projects emphasizing the study of complex problems at one or more of the following scales: personal, neighborhood, community, metropolitan, or regional; multidisciplinary considerations and integration of research and design.

7354 Independent Study in Landscape Architecture (1-6) Enrollment based on faculty acceptance of student’s proposal prior to registration; for the superior and advanced student; supervision by graduate faculty member in case-study situations; faculty evaluations based on periodic reviews, written report, and verbal presentation. Student may work under faculty member with special expertise but who is not teaching a course on the topic; or work with a professional in the community or with a government agency on projects of meaningful academic experience; or engage in individual study away from campus.

7393 Document Survey in Landscape Architecture (1-6) Prereq: LA 5191 or equivalent. Information resource availability and use; literature of landscape architecture; literature and document review of specific problems; individual guidance and group discussion of analysis and reporting techniques and relationship of research to landscape design.

7394 Research in Landscape Architecture (1-6) Prereq: LA 5191. Examination of design determinants or specific landscape architectural problems through selected term research projects; individual and group discussion of research objectives and field methods; application of research to design.

7395 Special Topics in Landscape Architecture (3) Prereq: consent of instructor. 1 hr. lecture; 4 hrs. lab. May be repeated for a max. of 6 sem. hrs. credit. Development of concepts, skills, and techniques related to use of computer, video, and other advanced technologies in landscape architecture research, design, planning, and management.

7398, 7399 Seminar in Landscape Architecture (2, 2) Seminars related to issues and problems in landscape architecture; student presentations and use of informed guests from the university and community.

8000 Thesis Research (1-12 per sem.) “S”/“U” grading.

LATIN (LATN)

1001 Elementary Latin (5) Nonlaboratory reading course in classical Latin; emphasis on comprehension rather than grammar; repetition of controlled vocabulary and contextual clues used to read extensive passages of simple Latin.

2051 Intermediate Latin (5) Reading comprehension approach to language continued in extensive passages of moderate difficulty; vocabulary and basic Latin grammatical constructions.

2053 Intermediate Latin (3) Nonlaboratory comprehension approach includes material of the difficulty of 1st century Latin poetry and prose.

2065 Golden Age Narrative Poetry (3) Readings from the narrative poets, including selections from Virgil’s Aeneid and from Ovid’s Metamorphoses.

2066 Golden Age Prose (3) Readings from Roman prose writers (excluding the historians); the major speeches, letters, and philosophical works of Cicero.

2073 Roman Historians (3) Readings from Roman historians; selections from Livy and Tacitus; differing prose styles and philosophies of history of the authors.

2074 Golden Age Lyric Poetry (3) Readings from the lyric poets; selections from the Catina of Catullus and the Odes of Horace, with attention to emotional content.

2080 Women in Antiquity (3) Knowledge of Greek or Latin not required. The role of women in Greek and Roman society; readings from historical, legal, medical, and religious documents.
2090 Greek and Roman Mythology (3) Taught in English; knowledge of the Greek and Latin languages not required. Credit not applicable toward a major in Latin or classical languages.

4001 Intensive Latin Language (3) A specialized course intended to provide a reading knowledge of Latin. For graduate students and advanced undergraduates for whom a familiarity with another foreign language is strongly recommended. Successful completion of this course will be regarded as sufficient preparation for LATN 4006. Does not count toward satisfying foreign language requirement for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and introductory Latin courses. Syntax, grammar, and lexicology of Latin; graduated readings from representative authors.

4002 Roman Satire (3) Readings from Petronius' Satyricon, Martial, and Juvenal for their humor, with attention to evidence of the lives and language of ordinary Roman people.

4003 Readings in the History of Livy (3) Selections from the History of Livy; literary and historical significance.

LIBRARY SCIENCE (LIBS)

7002 Information Services (3) Core course. Preparation for reference and bibliographic work in public, college, school, and university libraries; selection and use of scholarly general and specialized reference materials in various subject fields; introduction to one machine readable database system.

7003 Library and Information Agencies and Their Resources (3) Core course. Social role of library and information agencies and the profession; principles and techniques for selection of materials and evaluation of collections in the context of user needs.

7004 Principles of Management in Information Agencies (3) Core course. Basic functions of management and their application to library operations.

7008 Computer Fundamentals for Information Management (3) Core course. Computer hardware and software; characteristics and operation of computer input, output, and storage devices; programming; use of packaged software.

7101 Media and Services for Children (3) Aspects of child development and the place of library resources, both print and nonprint, in meeting the needs of children.

7102 Media and Services for Young Adults (3) Specialized area of young adult librarianship; contemporary literature and non-book formats, programming, and services.

7106 Problems in Selection and Evaluation of Library Resources (3) Evaluation of materials and systems by subject, format, special topic, and accessibility.

7200 Resources for the Humanities (3) Literature in major divisions of the humanities; bibliographical and reference materials, audio-visual media, periodicals, and machine readable data bases; fields: art, music, religion, philosophy, and literature.

7201 Resources for the Social Sciences (3) Literature in major areas of the social sciences, including special reference books, pertinent government documents, periodicals, audio-visual materials, and machine readable databases; fields: history, geography, education, economics, political science, sociology, anthropology, business, and law.

7202 Resources for Science and Technology (3) Literature of science; modern concepts and literary works in the major fields of pure and applied sciences; special reference and audio-visual materials, periodicals, and machine readable databases.

7203 Sources of Government Information (3) Federal government publications as products of government activity and as sources of information for libraries.

7204 Information Resources for the Health Sciences (3) History of health sciences literature; resources and bibliographic control; emphasis on the Medical Literature Analysis and Retrieval System of the National Library of Medicine.

7206 Information Resources for Research Libraries (3) Building and maintaining research collections; distribution and extent of these libraries; methods of surveying library facilities; interinstitutional agreements for specialization of collections and other forms of library cooperation; printed catalogs, union catalogs, and bibliographical centers.

7209 Information Resources for Special Subjects (3) May be taken twice for credit when topics vary. Literature and resources found in special libraries such as law, theology, music; one type of literature per semester; sources studied include those useful for both reference work and collection development.

7400 School Media Centers (3) Philosophy and objectives of school library service; development of the school library; its increased responsibilities for new services; its role as a multimedia learning center.

7401 Academic Libraries (3) Libraries in the university community; organization, financing, and administration; materials selection and buying; reference works; reserved books; graduate research; interlibrary loans; instruction in use of the library.

7402 Networking and Cooperative Systems (3) Interrelationships of all types of libraries in a system; management procedures with emphasis on personnel, legal frame of reference of the systems, and use of new technological developments in communication.

7403 Special Libraries and Information Centers (3) Major types of special libraries; their purpose and function in business, government, and other organizations; principles of administration; technical processing; reference services; special methods, routines, and records.

7404 Health Sciences Information Centers (3) Administration, organization, and services of health sciences libraries.
7405 Public Libraries (3) Role of the public library in the past and present; relationship to the community; political and budgetary aspects; major service responsibilities.

7501 Management of Information Systems (3) Development of management thought; application of management functions to library operations; contemporary thinking of library managers; related research.

7505 Analysis of Information Systems (3) Application of systems analysis techniques to management of libraries and information centers; analysis of current operating systems; implementation of more effective manual and/or computerized information processing.

7506 Automation of Bibliographic Control Systems (3) Also offered as CSC 7405. Management of library technical operations—acquisitions, materials organization, serials, and circulation; evaluation and application of integrated automation systems.

7507 Microcomputer Systems for Information Management (3) Use of microcomputers in library processes; use of software, evaluation of user needs, and library management concerns.

7605 Information Science (3) Also offered as CSC 7406. History and philosophy of information science and information retrieval; analysis of existing information retrieval systems; information-system design for library application.

7606 Abstracting and Indexing (3) Also offered as CSC 7407. Abstracting and indexing methods; manual and automated abstracting and indexing systems; problems confronting abstracting and indexing services; question analysis and search strategies; evaluation of search results.

7607 Online Information Retrieval (3) Also offered as CSC 7410. Development of online systems and services in libraries; in-depth training in their use; impact of online services on libraries and information systems.

7608 Cataloging and Classification (3) Core course. Principles underlying the description, classification, and subject assignment of materials; manual and automated methods; AACR2, DDC, and LCC; overview of technical services; relationship of the catalog to other departments in the library.

7609 Cataloging and Classification—Advanced (3) Prereq: LIBS 7608 or consent of instructor. Problems in cataloging and classification for a wide variety of materials; historical and international survey of cataloging codes and classification systems.

7610 Information Retrieval Systems (3) See CSC 7481.

7700 History of Books and Libraries (3) History and cultural relationships of the book and libraries; rise of the modern library since the mid-19th century.

**MANAGEMENT (MGT)**

3000 Petroleum Land Management Practice (1) Open only to petroleum land management majors. Required of petroleum land management majors; waived only by consent of department. Pass/fail grading. A minimum of 6 weeks of full-time employment by a firm participating in the program.

3005 Petroleum Land Management (3) Practical and evidentiary aspects of petroleum land management; principles, and techniques derived from a synthesis of legal and geological sciences; legal effects of various procedures of boundary locations for petroleum properties; petroleum land practices concerning utilization, areal association, and environmental impacts of drilling activity; use of topographical and historic maps, map compilations, historical cartography, air photos, archival records, and field techniques; some focus on coastal Louisiana and the Gulf South.

3126 Management and Organized Labor Relationships (3) Impact of organized labor on personnel and management prac-
tices; emphasis on the nature of union organizations, union certification and decertification elections, contract administration, and government regulation of labor-management relationships.

3127 Collective Bargaining in the Private Sector (3) Prereq: MGT 3126. Limitations placed on managerial prerogatives by collectively bargained agreements in the private sector.

3129 Cases in Personnel and Labor Relations (3) Prereq: MGT 3127 and 4167. Recruitment, selection, training and development, compensation, labor relations, personnel planning, performance appraisal, and job analysis; emphasis on interrelationships among the various personnel functions.

3159 Management Principles and Policies (3) Prereq: admission to the College of Business Administration or approval of the dean; credit will not be given for both this course and MGT 4159. Principles of management; policies, organization, operations, and external relationship.

3190 Business Policies and Problems (3) Prereq: FIN 3715, MGT 3159, and MKT 3401. May be taken only during the final semester of course work. Specific problems in formulation of consistent business policies; maintenance of an efficient organization; actual cases used as basis for discussions and preparation of reports which call for executive decision making.

3193 Business and Society (3) Prereq: senior standing. Social roles of organizations whose primary function is the accumulation of profits; emphasis on current issues; historical development of business-society relationships.

3270 Independent Study: Advanced Management Topics (1-6) Prereq: consent of instructor. May be repeated for credit for a max. of 6 sem. hrs. Independent research under direction of a faculty member.

3471 Employee Selection and Placement (3) Prereq: MGT 4167 and QBA 2000; or equivalent. Staffing requirements, recruitment strategies, development and validation of selection procedures, classification and placement of personnel; problems associated with person-job matching; socialization of new employees.

4110 Management of Innovation (3) The competitive environment; innovative process and invention evaluation; anatomy of successful innovation; management of creativity; patenting innovation; social/cultural, organizational, and governmental influence on innovation.

4120 Managing Technology Transfer (3) Models of technological transfer, mechanisms and barriers to technological transfer, technological transfer and industrial innovation; domestic and international aspects of technology transfer.

4125 Analysis and Design of Management Information Systems (3) See QBA 4125.

4128 Collective Bargaining in the Public Sector (3) Issues in public sector bargaining; aspects different from private sector bargaining.

4130 Government Regulation of Human Resource Management (3) Impact of federal legislation on human resource managers; hiring, retention, and promotion policies of employers.

4140 Multinational Management (3) Prereq: MGT 3159 or equivalent. Management concepts and philosophical bases for international management operations; environmental dynamics, multinational business organizations, cultural constraints, organizational structures and processes, and conceptual systems of international operations.

4159 Analysis of Organizations and Management (3) Offered for the M.B.A. student (and others intending to enter the program) without previous course work in these areas. Credit will not be given for both this course and MGT 3159. Intensive foundation course in organizations and management.

4164 Human Behavior in Organizations (3) Prereq: MGT 3159. Behavioral sciences applied to interpersonal relationships in business; concepts of human aspects of American business as distinguished from economic and technical aspects; influence of these factors on efficiency, morale, and business practices; group dynamics; informal organization as opposed to formal organization.

4167 Personnel—Human Resources (3) Prereq: MGT 3159. Personnel functions, including planning, recruitment, selection, development, maintenance, and reward of employees; relationships with environment and employee associations.

4170 Compensation Administration (3) Prereq: MGT 4167. Quantitative and nonquantitative methods of job evaluation; wage level, wage structure, incentive plans; issues of employee compensation.

5220 Administrative Theory and Behavior (3) Management fundamentals and organizational behavior; structure, processes, behavior in, and development of organizations.

7120 Organizational Innovation and Design (3) Design of complex organizations that are innovative and adaptive; analysis of integrative cases from high-technology and other organizations to study design alternatives.

7140 International Business Management (3) Theories and management of international operations; development of environmental, operational, strategic, and decision making perspectives.

7200 Research Methods and Reports (3) Prereq: QBA 3001 or equivalent. Primary research used in business; major sources of business information; analysis and writing of research reports; problem work in the major forms of business research.

7205 Business and Society (3) Role of business in a broad societal context; changes occurring in business and resulting modifications of the relationship of business to society; roles of business viewed by business and society.

7210 The Development of Management Thought (3) Origin and growth of managerial philosophies, principles, and concepts; contributions of the leaders of the main channels of thought, including scientific management, the process approach, behavioral sciences, quantitative methods, and systems.

7218 Organization Development (3) Strategies and techniques for improving effectiveness of organizations; improved interpersonal and person-group relationships.

7240 Organization Theory (3) Macro aspects of organizations; processes by which organizations are formed, structures used in their elaboration; internal processes; environmental considerations; organizational viability and renewal.

7241 Organizational Behavior (3) Behavior of people within organizations; the environment within which organizations function; components of the behavioral unit; processes, interactions, and outputs of organizational behavior.

7267 Seminar in Personnel—Human Resources (3) Role of personnel executives; their relationships to employees, employee associations, external environment, organizational environment.

7268 Operations Management (3) See QBA 7268.

7269 Systems Management (3) General systems concept, application to understanding of the management of human organizations; isomorphism, entropy, information, cybernet-
provide a top management perspective of the business enterprise.

7300 Labor Management Relations (3) Primarily for master's level students. Collective bargaining and strategies, public policy, and current issues in the public and private sectors.

7380 Research Issues in Strategic Management (3) Prereq: MGT 7280 or equivalent. Strategic planning; issues including environmental scanning, goal formulation, strategic implementation, control, and evaluation in successful organizations.

8000 Thesis Research (1-12 per sem.) "S"/'U' grading.

8900 Predissertation Research (1-9) May be repeated for credit. Pass-fail grading.

9000 Dissertation Research (1-12 per sem.) "S"/'U' grading.

### MARINE SCIENCES (MRSC)

2007 Introduction to Marine Sciences—Physical Processes (4) F 3 hrs. lecture; 3 hrs. lab. Does not satisfy major field course requirement for students in natural science curricula. Also offered as BIOL 207 at Southern University in Baton Rouge. Physical processes in marine and aquatic environments; their influence on coastal Louisiana.

2008 Introduction to Marine Sciences—Life Processes (4) S 3 hrs. lecture; 3 hrs. lab. Does not satisfy major field course requirement for students in natural science curricula. Also offered as BIOL 208 at Southern University in Baton Rouge. Life and environmental processes in marine and aquatic settings; their influence on coastal Louisiana.

2095 Introduction to Marine Sciences (4) Su only. Prereq: introductory science course. Four weeks at Louisiana Universities Marine Consortium coastal laboratories. Physical, chemical, geological and biological processes in the oceans and coastal environments and their interactions; interrelationships of man and the marine environment.

4010 Marine Science for Teachers (4) Su only Four week short course offered at various locations by Louisiana Universities Marine Consortium. Credit not applicable to a degree in marine sciences. Survey of the marine sciences; secondary and elementary school levels.

4020 Introduction to Marine Sciences for Graduate Students (3) V Prereq: marine sciences major or minor, or consent of department chairman. Geological, physical, chemical, and biological aspects of marine study; their application to past and present LSU research activities.

4041 Salt Marsh Ecology (4) Su only Prereq: general botany and 10 semester hours of biology. Four weeks at Gulf Coast Research Laboratory, Ocean Springs, Mississippi. Botanical aspects of local marshes; plant identification, composition, structure, distribution, and development of coastal marshes; biological and physical interrelationships; primary productivity and relation of marshes to estuaries and associated fauna.

4086 Marine Food Resources and Technology (3) F-O See FDSC 4086.

4090 Marine Microbiology (3) F-O Prereq: MBIO 2051 or equivalent. Also offered as MBIO 4090. Characterization and distribution of estuarine and open-ocean microorganisms; role of marine heterotrophs in organic and inorganic cycling processes and food web dynamics; microbial contribution to diagenesis, antibiotic, and biominification in the sea; indicator species; microbial activities in marine corrosion, decomposition, and fish pathology and spoilage.

4095 Marine Field Ecology (4) Su only Prereq: general biology, invertebrate or vertebrate zoology, introductory chemistry, and consent of instructor. Five weeks at Louisiana Universities Marine Consortium coastal laboratory. Also offered as ZOOL 4095. Relationships of marine and estuarine organisms to environmental factors; interactions among organisms; ecological processes of energy and materials flow; field studies of communities and ecosystems of the Louisiana coastal zone.

4126 Chemical Oceanography (3) S See GEOL 4081.

4170 Physical Oceanography (3) S Prereq: CE 2200 and graduate standing or consent of instructor. Physics of the ocean; with emphasis on dynamical problems; physical properties of sea water, marine instrumentation, flow dynamics in the earth's rotating coordinate system, water waves, general circulation.

4171 Coastal and Marine Meteorology (3) F-E Prereq: MATH 1552, PHYS 2102, and either graduate standing or consent of instructor. Dynamic and physical behavior of the atmosphere; application of basic laws and concepts of physics; flow characteristics and thermodynamic processes; chemistry, electricity, and radioactivity of the marine atmosphere.

4210 Geological Oceanography (3) F Prereq: two-semester introductory course in geology. Also offered as GEOL 4210. Principles of marine geology; sediments and sedimentation in the marine environment from the nearshore zone to the abyssal plain; geological effects of bottom currents; sea-level history; geophysical techniques; continental drift and sea-floor spreading; tectonic history of the oceanic crust.

4308 Plants in Coastal Environments (3) V Prereq: one-semester course in biology or ecology; or consent of instructor. 2 hrs. lecture; field trips equivalent to 3 hrs. lab. Also offered as BOTY 4308. Ecology of Louisiana's major coastal plant communities; emphasis on influence of environmental factors controlling plant distribution and productivity; physiological, morphological, and anatomical mechanisms aiding plant survival; man's impact on Louisiana's coastal plant communities.

4372 Estuarine Ecology (3) F Prereq: graduate standing or consent of instructor. 3 hrs. lecture; seminar; field trips to coastal areas. Ecological processes in shallow waters of the sea; emphasis on estuaries.

4395 Marine Field Microbiology (4) Su only Prereq: 12 sem. hrs. of biology including an introductory course in microbiology and consent of instructor. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory. Also offered as MBIO 4395. Estuarine and marine microbes, especially bacteria and fungi; classification, methodology, role in marine ecosystems, biogeochemical cycles, and diseases of marine animals.
4410 Ecosystem Modeling and Analysis (3) Prereq: MATH 1552 and knowledge of a programming language. Mathematical description and analysis of ecological systems; emphasis on systems approach using matter and energy flow models for quantifying and analyzing interdependence and dynamics in ecosystems; linear flow models, dynamic non-linear models, optimization models, stochastic models, and computer techniques for modeling, validation, sensitivity analysis, and parameter optimization.

4464 Marine Resources Law (1-4) V Also offered as LAW 5414. Legal, political, economic, and scientific aspects of exploitation of ocean resources and use of ocean space; concepts of freedom of the high seas, territorial waters, special contiguous zones, ocean boundaries, navigation in the territorial sea and on the high seas, the continental shelf, deep sea bed mining, domestic and international fisheries management, oceanographic research, military interests, pollution of the marine environment, dispute settlement, marine technology transfer, and development of U.S. oceans policy; special emphasis on the work of the Third United Nations Conference on the Law of the Sea.

4465 Seminar in Coastal Zone Management (1-4) S-O Also offered as LAW 5803. Non-law students encouraged to participate. Written and oral presentation required; special projects relating to the primary field of interest permitted. Resources allocation and environmental quality issues in coastal and estuarine zones of the U.S.; evaluating alternative solutions to topical coastal zone issues; preparing legal devices for meeting the issues, such as legislation, regulations, contract provisions, and deed restrictions; traditional law courses in water law, environmental law, natural-resources law, and land-use planning.

4666 Coastal Field Geology (4) Su only See GEOL 4666.

7001 Advanced Topics in Marine Sciences (1-3) V May be repeated for credit for a max. of 9 sem. hrs. when topics vary. Topics determined by instructor's interest.

7010 The Concepts of the Ecosystem (3) S-O Prereq: one-semester course in ecology or consent of instructor. Structure, function, diversity, and succession of ecosystems viewed as a whole and as applied to major biomes.

7016 Coastal and Shallow-Water Literature (3) V Individual and group-assigned readings concerning availability and content of source references.

7020 Marine Microbial Ecology (3) S-O Prereq: one-semester course in microbiology and consent of instructor. Also offered as MBIO 7022. Microbial ecosystems and population dynamics; response of marine microorganisms to physicochemical factors and environmental alterations; microbial interactions; nutrient regeneration processes; nutritional requirements and microenvironments; modeling and systems analysis in marine microbial ecology.

7028 Numerical Modeling of Ocean Circulation (3) V Prereq: MRSC 4170 or ME 4563 or equivalent. Numerical modeling of ocean dynamics; numerical methods; parameterization schemes; review of state-of-art models.

7122 Gravity Waves in Shallow Water (3) V Prereq: MATH 1550, 1552; PHYS 2101, 2102; and consent of instructor. Linear and nonlinear theories of water gravity waves considered by classical mathematical derivation and numerical methods; wave transformation in shallow water, characteristics of boundary layer under wave action; wave-related phenomena in nearshore zone.

7123, 7124 Oceanographic Data Analysis (3, 3) F, S Prereq: MATH 1550 and EXST 2055 or equivalent. Statistical techniques for analysis of oceanographic time and space series data; spectrum analysis, objective analysis, empirical orthogonal functions, and Kalman filters.

7125 Estuarine and Shallow-Water Oceanography (3) V Prereq: consent of instructor. Wind-driven and mass-driven currents in estuaries, turbulence and mixing in estuaries, seiches, storm surges, internal waves, salt balance, and interflows.

7126 Continental Shelf Dynamics (3) V Prereq: MRSC 4170. Kinematics and dynamics of flow on continental shelves; distributions of related properties; exchange of mass with adjacent water bodies.

7127 Dynamics and Sedimentary Response Features of Coastal Environments (3) Su-O Interactions between major dynamical forcing mechanisms and sedimentary-geomorphic responses in major types of coastal environments (delta, sandy coasts, and coral-reef coasts); variability of physical processes and corresponding response features.

7128 Wetland Hydrology and Hydrodynamics (3) S Prereq: CE 2200, CSC 1240, and MATH 1552; or equivalent. Application of hydrology and hydrodynamics to wetland studies; computational approaches, using existing water quantity and water quality models, for quantifying and identifying hydrologic and biologic functions in wetland.

7132 Coastal Physical/Chemical Systems: Analytical Methods (3) F-O Prereq: consent of instructor. 6 hrs. lab. Sampling techniques, proper handling and preservation of samples, identification and determination of mineral components in sediments, qualitative characterization of organic components, and measurements of inorganic nutrients and toxic substances in water and sediments; techniques tested and evaluated in terms of application of results to understanding of natural environmental systems.

7142 Coastal Climatology (3) F-E See GEOG 7942.

7165 Chemistry and Microbiology of Flooded Soils and Sediments (3) S-E Same as AGRO 7165. Chemical and microbiological changes in fresh water, brackish water, and estuarine-flooded soils and sediments affecting availability of nutrients and growth of plants.

7170 Satellite Oceanography (3) F Prereq: MRSC 4170 or equivalent. Oceanographic measurements and observations using satellite borne sensor systems; radiation-ocean-atmosphere interactions, satellite systems, sensor design, and data types; analysis of infrared, visible, and microwave data for deep ocean, coastal, and estuarine phenomena.

7209 Coastal Swamps and Marshes (3) V Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. and field trips. Also offered as GEOG 7909. Morphology, sedimentary processes, and geochemistry in marsh and swamp environments.

7210 Form-Process Relationships in Coastal Environments (3) F Prereq: advanced standing in coastal oceanography or consent of instructor. Also offered as GEOG 7910. Environmental approach to coastal morphology.

7241 Coastal Ecology (3) V See GEOG 7941.

7246 Coastal and Estuarine Resources (3) S-E See GEOG 7946.

7311 Marine and Estuarine Plankton (3) V Prereq: background in ecology, invertebrate zoology, limnology, or physiology; and consent of instructor. 2 hrs. lecture; 1-3 hrs. lab with 2 field trips during lab periods. Structure and function of marine plankton populations; changes related to various environmental factors such as temperature, nutrients, radiation, transparency, currents, and water-masses; aspects of identification, life history, and biodemographic features; sampling theory, collecting techniques, distribution, abundances, production, analytical models, and economic significance.
MARKETING (MKT)

2000 Marketing and Society (3) Not open to students in the College of Business Administration. Marketing aspects of contemporary social issues; emphasis on methods for dealing with societal issues and their impact on marketing activities.

3401 Principles of Marketing (3) Prereq: ACCT 2000 or 2001, and either ECON 2030 or ECON 2010 and 2020. Lecture-discussion, case analysis, marketing-simulation game; the field of marketing; marketing environment, functions, and institutional structure at a macro level; marketing strategy and policies at a micro level; problems of cost and productivity; viewpoints of society, consumer, and marketing manager.

3411 Consumer Analysis and Behavior (3) Prereq: MKT 3401. Dynamics of consumer markets; their significance to marketing executives; identification and measurement of market segments; analysis of their behavioral patterns as a basis for marketing strategy.

3413 Marketing Research (3) Prereq: MKT 3401 and QBA 2000. Formulation of marketing policies; theories, concepts, and methodology involved in applying research to marketing problems.

3421 Marketing Communication: Selling and Advertising (3) Prereq: MKT 3401. Nature and contributions of personal selling and advertising to the firm's problems of demand stimulation; concepts related to integration and organization of promotional effort to facilitate movement of goods.

3427 Buyer-Seller Communication (3) Prereq: MKT 3401. Communication theory and sales principles needed for successful sales career; buyer behavior and sales tactics; sales strategies; communication in buyer-seller relationships.

3431 Retailing Management (3) Prereq: MKT 3401. Store organization, operation, and management; retail method of inventory; problems connected with retail buying and selling.

3433 Distribution Channels, Structure, and Management (3) Prereq: MKT 3401. Distribution channel's functions, structures, and processes; the channel as an economic and behavioral system; relationship between channel members; marketing manager's viewpoint; vertical marketing systems including franchises; channel design; communication information systems; management by different channel members; evaluation of channel performance.

3441 Industrial Marketing (3) Prereq: MKT 3401. Nature and scope of industrial markets; strategies developed by manufacturers to compete for these markets; differences between industrial and final consumer markets; function of industrial purchasing with regard to selection of sources of supply and development of purchasing policies.

4414 Marketing Research Field Project (3) Prereq: MKT 3413. Advanced marketing research problems and theory; client-supplier relations; research proposals and reports.

4423 Sales Management (3) Prereq: MKT 3401. Principles of sales planning and control; organizing sales departments, developing territories, motivating salespersons, and controlling sales operations.

4443 International Marketing (3) Prereq: MKT 3401. Global marketing environment and analytical processes; global marketing as all-encompassing (import-export, joint ventures, foreign subsidiaries, licensing, management contracts); marketing systems in various countries; strategies for international and multinational operations.

4445 Internship in Marketing (1-6) Prereq: consent of department chairman. Primarily for seniors in marketing. On-the-job experience in approved marketing positions.

4451 Marketing Management (3) Prereq: senior standing or consent of instructor. Analytical principles used in development of strategies for solving marketing problems; policy areas of product, price, channels, and promotion integrated in development of the firm's total marketing effort.

4477 Independent Study: Advanced Marketing Problems (1-6) For undergraduate students in the College of Business Administration with a GPA of 3.00 or above. Independent research under direction of a faculty member.

4488 Advanced Topics in Retailing Management (3) Prereq: MKT 3431. Application of retailing theory and management techniques in areas of strategic planning and its interfaces with retailing operations; market area analysis, locational strategies and site selection; merchandising policies and store operations; store management, product distribution, and departmental layout.

7420 Applied Business Research (3) Prereq: QBA 5014. Application of research to business problems from a managerial perspective; problem definition, sources of business information, dealing with research suppliers, evaluating research methodologies, interpreting research reports.

7450 Topics in Advanced Marketing Management (3) Prereq: MKT 7711. May be taken twice for credit when topics vary. Survey of marketing management areas such as distribution channels, pricing, and product management.

7471 Marketing Strategy (3) Design, implementation, and evaluation; corporate marketing models; demand forecasting; marketing programming; product, price, promotion, and distribution policies; information systems; marketing audit; application of economic, quantitative, and behavioral tools as strategic aids to marketing management; model-building approach used to demonstrate tool applications in product, price, promotion, and distribution strategies.

7476 Marketing Theory and Thought (3) Evolution of marketing concepts, terminology, principles, and theory; development of a frame of reference for understanding the meaning and consequences of theory; prediction of future theoretical development.

7477 Seminar in Advanced Marketing Problems (3) May be taken 3 times for credit.
Applications of Marketing Theory (3) Prereq: MKT 7476 and 7713. Marketing theory development and testing; theory operationalization and refinement.

Marketing Models (3) Prereq: MKT 7711 and consent of instructor. Synthesis of theory, content area, and methodology in marketing through the study of modeling; modeling phenomena, functional forms, and analytical techniques of path analysis, simultaneous equation systems, and structural equation modeling.

Marketing Administration (3) Marketing decision making and marketing systems; marketing research and environment of marketing; marketing planning, programming, and forecasting; marketing decision variables; marketing control and evaluation.

Advanced Marketing Research (3) Prereq: MKT 4451 or 7711. Advanced designs and techniques applied to marketing research; theory and assumptions of analytical methods; marketing applications; use of computer programs; marketing strategy; interpretations of empirical results.

Analysis of Consumer Behavior (3) Prereq: MKT 4451 or 7711. Psychological, sociological, social-psychological, and anthropological foundations of consumer behavior; their application to marketing-originated concepts and marketing management decisions and planning.

Advertising Management (3) Prereq: MKT 4421 or equivalent. Systematic approach to advertising decision making and inherent responsibilities and opportunities; identification of needed information, development of a decision framework, delineation of economic and societal interfaces.

Advanced Marketing Research Techniques (3) Prereq: MKT 7711 and 7713. Advanced designs and techniques applied to marketing research; theory and assumptions of analytical methods; marketing applications; use of computer programs; marketing strategy; interpretations of empirical results.

Advanced Seminar in Consumer Behavior (3) Prereq: MKT 7714 and either MKT 4451 or 7711. Open only to doctoral students. Theoretical, conceptual, and methodological issues for selected topics in this area.

Theoretical, Conceptual, and Methodological Issues for Selected Topics in Consumer Behavior.

Thesis Research (1-12 per sem.) "S"/"U" grading.

Predissertation Research (1-9) May be repeated for credit.

Dissertation Research (1-12 per sem.) "S"/"U" grading.

Students may not receive more than nine semester hours of credit in mathematics courses numbered below 1550.
Preparation for College Mathematics—I (4) Prereq: placement by department. 3 hrs. lecture; 1 hr. recitation/lab. For students not prepared to take MATH 0092. Not for degree credit: 4 sem. hrs. will be added to the degree program of any student taking this course. No student who has received credit for a mathematics course numbered 1000 or above may register for this course. Fractions, decimals, percent, ratio and proportion, measurement of simple geometric figures, signed numbers, polynomials, linear equations and inequalities, applications of linear equations.

Preparation for College Mathematics—II (4) Prereq: MATH 0092 or placement by department. 3 hrs. lecture; 1 hr. recitation/lab. For students not prepared to take MATH 1009, 1015, or 1021. Not for degree credit; 4 sem. hrs. will be added to the degree program of any student taking this course. No student who has received credit for a mathematics course numbered 1000 or above may register for this course. Linear equations and inequalities, polynomials and factoring, algebraic fractions, operations on radical expressions, rational exponents, quadratic equations, graphing.

Mathematics for Prospective Elementary School Teachers—I (3) F,S Prereq: MATH 0092 or placement by department. Logic; counting numbers, integers, rational numbers, real numbers; emphasis on field properties; set nomenclature and some number theory; units of measurement.

Mathematics for Prospective Elementary School Teachers—II (3) F,S Prereq: MATH 1009. Continuation of MATH 1009; measurement, informal geometry, systems of equations, introduction to probability and statistics.

Basic Mathematics and Applications (3) F,S Prereq: MATH 0092 or placement by department. This course does not serve as a prerequisite for calculus. Credit will not be given for both this course and MATH 1021, 1022, or 1023. Basic mathematical skills of graphing, formulas for geometric measurement, systems of linear equations and inequalities, review of quadratic equations, logarithms and application to exponential growth and decay, triangle trigonometry and its application to geometry and measurements.

College Algebra (3) F,S,Su Prereq: MATH 0092 or placement by department. Credit will not be given for both this course and MATH 1015 or 1023. Quadratic equations, systems of linear equations, inequalities, functions, graphs, exponential and logarithmic functions, complex numbers, theory of equations.

Plane Trigonometry (3) F,S,Su Prereq: MATH 1021 or placement by department. Credit will not be given for both this course and MATH 1015 or 1023. Trigonometric functions and identities, inverse trigonometric functions, graphs, solving triangles and equations, complex numbers, polar coordinates.

College Algebra and Trigonometry (5) F,S,Su Prereq: placement by department or grade of ‘A’ in MATH 0092. Credit will not be given for both this course and MATH 1015, 1021, or 1022. For qualified students, a replacement for MATH 1021 and 1022 as preparation for calculus.

Mathematics of Commerce (3) F,S Prereq: MATH 1015 or 1021. Interest, discount, annuities, depreciation, and insurance.

The Nature of Mathematics (3) F,S,Su Prereq: MATH 1021 or consent of department. Not for science, engineering, or mathematics majors. For students who desire an exposure to mathematics as part of a liberal education. An honors course, MATH 1101, is also available. Logic; the algebra of logic, computers, and number systems; networks and combinatorics; probability and statistics.

HONORS: The Nature of Mathematics (3) V Prereq: a grade of ‘A’ in MATH 1021 or consent of department. Same as MATH 1100, with special honors emphasis for qualified students. Logic; the algebra of sets, logic, and networks; probability and statistics; game theory; infinities; famous impossibilities and unsolved problems.

Calculus with Business and Economic Applications (3) F,S,Su Prereq: MATH 1021 or equivalent. Credit will be given for only one of the following: MATH 1431, 1441, 1550. Differential and integral calculus of algebraic, logarithmic, and exponential functions; applications to business and economics, such as maximum-minimum problems, marginal analysis, and exponential growth models.

Mathematics for Business Analysis (3) F,S,Su Prereq: MATH 1431 or equivalent. Sets and counting; probability, including conditional probability, discrete and continuous random variables, variance, and normal distributions; matrices and echelon method for solving systems of equations; functions of several variables and partial derivatives.

Calculus with Application to Technology (3) F,S Prereq: MATH 1021 and 1022; or 1023; or consent of department. Credit will be given for only one of the following: MATH 1431, 1441, 1550. Differentiation and integration of algebraic and trigonometric functions; application to technology.

Analytic Geometry and Calculus—I (5) F,S,S, Su Prereq: MATH 1022 or 1023 or consent of department. An honors course, MATH 1551, is also available. Credit will be given for only one of the following: MATH 1431, 1441, 1550. Analytic geometry, limits, derivatives, integrals.

HONORS: Analytic Geometry and Calculus—I (5) F Same as MATH 1550, with special honors emphasis for qualified students.

Analytic Geometry and Calculus—II (5) F,S,Su Prereq: MATH 1550. An honors course, MATH 1553, is also available. Conics, arc length, transcendental functions, coordinate systems, infinite series.

HONORS: Analytic Geometry and Calculus—II (5) S Same as MATH 1552 with special honors emphasis for qualified students.

Fundamentals of Mathematics (3) F,S,Su Prereq: MATH 1550. Historical and logical development of various systems of mathematics, including number theory, Euclidean and non-Euclidean geometries, topology, and calculus.

Multidimensional Calculus (3) F,S,Su Prereq: MATH 1552. An honors course, MATH 2058, is also available. Three-dimensional analytic geometry, partial derivatives, multiple integrals.

HONORS: Multidimensional Calculus (3) F Same as MATH 2057, with special honors emphasis for qualified students.

Elementary Differential Equations (3) F,S,Su Prereq: MATH 1552. Credit will be given for only one of the following: Math 2065, 2090, 4037. Ordinary differential equations; emphasis on solving linear differential equations.

Linear Algebra (3) F,S,Su Prereq: MATH 1552 or 2019 or equivalent. An honors course, MATH 2086, is also available. Credit will not be given for both this course and MATH 2090. Systems of linear equations, vector spaces, linear transformations, matrices, determinants.

HONORS: Linear Algebra (3) V Same as MATH 2085, with special honors emphasis for qualified students.

Elementary Differential Equations and Linear Algebra (4) F,S,Su Prereq: MATH 1552. Credit will be given for only one of the following: MATH 2065, 2090, 4037. Credit will not be given for both this course and MATH 2085. First
order differential equations, linear differential equations with constant coefficients, and systems of differential equations; vector spaces, linear transformations, matrices, determinants, linear dependence, bases, systems of equations, eigenvalues, and eigenvectors.

2901 Selected Topics in Mathematics (3) V Prereq: consent of department. May not be repeated for credit.

3998 Undergraduate Major Seminar (1) V May be taken 4 times for credit. Pass-fail grading. Topics of current interest.

4005 Geometry (3) S Prereq: MATH 2019. The foundations of geometry, including work in Euclidean and non-Euclidean geometries.

4022 Abstract Algebra (3) F Prereq: MATH 2085 or equivalent. Credit will not be given for both this course and MATH 4023. Elementary properties of sets, relations, mappings, integers and rational numbers; groups, subgroups, normal subgroups, quotient groups, homomorphisms, automorphisms, and permutation groups; rings, ring homomorphisms, ideals and quotient rings, polynomial rings, and finite fields.

4023 Applied Algebra (3) S Prereq: MATH 2085 or equivalent. Credit will not be given for both this course and MATH 4022. Finite algebraic structures relevant to computers: groups, graphs, and computer design, group codes, semigroups, finite-state machines.

4024 Mathematical Models (3) S Prereq: MATH 1552 and credit or registration in MATH 2085; or equivalent. Construction, development, and study of mathematical models for real situations; basic examples, model construction, Markov chain models, models for linear optimization, selected case studies.

4025 Optimization Theory and Applications (3) F Prereq: MATH 2057 and credit or registration in MATH 2085; or equivalent. Basic methods and techniques for solving optimization problems; n-dimensional geometry and convex sets; classical and search optimization of functions of one and several variables; linear, nonlinear, and integer programming.

4027 Differential Equations (3) Su Prereq: MATH 2057 and 2085. Ordinary differential equations, with attention to theory.

4031 Advanced Calculus—I (3) F Prereq: MATH 2057 and 2085; or equivalent. Differential and integral calculus of real and vector-valued functions of several real variables.

4032 Advanced Calculus—II (3) S Prereq: MATH 4031 or equivalent. Vector integral calculus, Stokes's Theorem, series, orthogonal functions, selected related topics.

4036 Complex Variables (3) F,S,Su Prereq: MATH 2057. Analytic functions, integration, power series, residues, and conformal mapping.

4037 Mathematical Methods in Engineering (3) F,S,Su Prereq: MATH 2057 or equivalent. Credit will be given for only one of the following: MATH 2065, 2090, 4037. Also offered as ME 4553. Ordinary differential equations, Laplace transforms, and Fourier series; physical applications stressed.

4038 Mathematical Methods in Engineering (3) F,S Prereq: MATH 2065 or 2090 or 4037. Also offered as ME 4563. Vector analysis; solution of partial differential equations by the method of separation of variables; introduction to orthogonal functions including Bessel functions.

4039 Introduction to Topology (3) V Prereq: MATH 4031 or equivalent. Examples and classification of two-dimensional manifolds, covering spaces, the Brouwer theorem, and other selected topics.

4055 Introduction to Probability (3) F Prereq: MATH 2057. Suggested for preparation for actuarial exams. Introduction to probability, emphasizing concrete problems and applications; combinatorial analysis, random variables, conditional probability, special distributions, Law of Large Numbers, Central Limit Theorem, and Markov Chains.

4056 Mathematical Statistics (3) S Prereq: MATH 4055. Suggested for preparation for actuarial exams. Experimental design, sampling methods, nonparametric methods, hypothesis testing, and regression.


4066 Numerical Analysis—II (3) S Prereq: MATH 4065 and one of the following: MATH 2065, 2090, 4027, or 4037. Numerical solutions of initial value problems and boundary value problems for ordinary and partial differential equations.

4153 Finite Dimensional Vector Spaces (3) S Prereq: MATH 2057 or 2085. Vector spaces, linear transformations, determinants, eigenvalues and vectors, and topics such as inner product space and canonical forms.

4158 Foundations of Mathematics (3) V Prereq: MATH 2057 or equivalent. Real number systems, sets, relations, product spaces, order, and cardinality.

4171 Theory of Graphs (3) S Prereq: MATH 2085 or equivalent. Fundamental concepts of undirected and directed graphs, trees, connectivity and traversability, planarity, colorability, network flows, matching theory, and applications.

4172 Combinatorics (3) F Prereq: MATH 2085 or equivalent. Topics selected from permutations and combinations, generating functions, principle of inclusion and exclusion, configurations and designs, matching theory, existence problems, applications.

4181 Elementary Number Theory (3) F Prereq: MATH 2057 or 2085. Divisibility, Euclidean algorithm, prime numbers, congruences, and topics such as Chinese remainder theorem and sums of integral squares.

4340 Partial Differential Equations (3) V Prereq: either MATH 2057, 2090, and knowledge of Laplace transforms; or MATH 2057, 2065 or 4037, and 2085. First-order partial differential equations and systems, canonical second-order linear equations, Green's functions, method of characteristics, properties of solutions, and applications.

4345 Special Functions (3) V Prereq: either MATH 2057 and 2090; or MATH 2057, 2065 or 4037, and 2085. Sturm-Liouville problems, orthogonal functions (Bessel, Laguerre, Legendre, Hermite), orthogonal expansions including Fourier series, recurrence relations and generating functions, gamma and beta functions, Chebyshev polynomials, and other topics.

4470 Error-Correcting Codes (3) V Prereq: MATH 2085 or 2090 or equivalent knowledge of linear algebra. Vector spaces over finite fields, basic properties of codes, examples of important codes and decoding schemes, bounds on sizes and rates of codes, the weight enumerator polynomial, perfect codes, and other topics.

4999 Selected Readings in Mathematics (1-3) Prereq: consent of department. May be repeated for a max. of 9 sem. hrs. credit.

5100 Elements of Calculus (3) Su Prereq: MATH 1550 and 1552; or equivalent. For secondary school teachers; mathematics graduate credit only for the M.A. degree. Limits, continuity, derivatives, integrals, infinite series; review of first-year calculus with a more theoretical emphasis.
5200 Multidimensional Calculus and Linear Algebra (3) F
Prereq: MATH 2057 and 2085; or equivalent. For secondary school teachers: mathematics graduate credit only for the M.A. degree. Three-dimensional analytic geometry, partial derivatives, multiple integrals, linear equations and systems, determinants, vector spaces, linear transformations, review of multidimensional calculus and linear algebra with a more theoretical emphasis.

6300 Topics in Mathematics for Secondary Teachers (1-3) V
Prereq: 6 sem. hrs. of mathematics at or above the level of 2019 or equivalent. May be repeated for a max. of 6 sem. hrs. credit when topics vary. May be taken by M.N.S. and M.A. students in mathematics with departmental approval. Areas of current interest to teachers of secondary school mathematics.

7200 Geometric and Abstract Algebra (3) Prereq: MATH 2085 or equivalent. Linear algebra, rings, finite fields, groups, multilinear algebra, other topics.

7210, 7211 Algebra—I, II (3, 3) 7210 offered F; 7211 offered S
Prereq: MATH 7200 or equivalent. Groups: Sylow Theorems, finitely generated abelian groups; rings and modules: exact sequences, projective modules; fields: algebraic, transcendental, normal, separable field extensions; Galois theory, valuation theory, Noetherian and Dedekind domains, topics from commutative rings.

7280 Seminar in Commutative Algebra (1-3) V
Prereq: consent of department. May be repeated for credit with consent of department. Advanced topics such as commutative rings, homological algebra, algebraic curves, or algebraic geometry.

7290 Seminar in Algebra and Number Theory (1-3) V
Prereq: consent of department. May be repeated for credit with the consent of the department. Advanced topics such as algebraic number theory, algebraic semigroups, quadratic forms, or algebraic K-theory.

7311 Real Analysis I (3) Prereq: Math 4032 or equivalent.
Axiom of choice, Lebesgue measure and integration, convergence theorems, bounded variation and absolute continuity, differentiation, Minkowski-Holder inequalities, Riesz-Fischer theorem.

7312 Real Analysis II (3) Prereq: Math 7311 or equivalent.
Ascoli theorem, Stone-Weierstrass theorem, Hahn-Banach theorem, uniform boundedness theorem, Hilbert spaces, weak topologies, general measure and integration, Riesz representation theorem, other related topics.

7320 Ordinary Differential Equations (3) S
Prereq: MATH 2085 and 7311; or equivalent. Existence and uniqueness theorems, approximation methods, linear equations, linear systems, stability theory, other topics such as boundary value problems.

7330 Functional Analysis (3) V
Prereq: MATH 7312 or equivalent. Banach spaces and their generalizations; Baire category, Banach-Steinhaus, open mapping, closed graph, and Hahn-Banach theorems; duality in Banach spaces, weak topologies; other topics such as commutative Banach algebras, spectral theory, distributions, and Fourier transforms.

7350 Complex Analysis (3) V
Prereq: MATH 7311 or equivalent. Theory of holomorphic functions of one complex variable; path integrals, power series, singularities, mapping properties, normal families, other topics.

7360 Probability Theory (3) F
Prereq: MATH 7311 or equivalent. Probability spaces, random variables and expectations, independence, convergence concepts, laws of large numbers, convergence of series, law of iterated logarithm, characteristic functions, central limit theorem, limiting distributions, martingales.

7370 Lie Groups and Representation Theory (3) V
Prereq: Math 7312, 7200, and 7511 or equivalent. Lie groups, Lie algebras, subgroups, homomorphisms, the exponential map. Also topics in finite and infinite dimensional representation theory.

7380 Seminar in Functional Analysis (1-3) V
Prereq: consent of department. May be repeated for credit with consent of department. Advanced topics such as topological vector spaces, Banach algebras, operator theory, or nonlinear functional analysis.

7390 Seminar in Analysis (1-3) V
Prereq: consent of department. May be repeated for credit with consent of department. Advanced topics such as harmonic analysis, differential equations, Lie group representation theory, several complex variables, or probability theory.

7400 Combinatorial Theory (3) S
Prereq: MATH 7200 or equivalent. Problems of existence and enumeration in the study of arrangements of elements into sets; combinations and permutations; other topics such as generating functions, recurrence relations, inclusion-exclusion. Polya's Theorem, graphs and digraphs, combinatorial designs, incidence matrices, partially ordered sets, matroids, finite geometries, Latin squares, difference sets, matching theory.

7490 Seminar in Combinatorics, Graph Theory, and Discrete Structures (1-3) V
Prereq: consent of department. May be repeated for credit with consent of department. Advanced topics such as combinatorics, graph theory, automata theory, or optimization.

7500 Algebraic Topology (3) S
Prereq: MATH 7200 and 7510; or equivalent. Basic concepts of homology, cohomology, and homotopy theory.

7510 Topology I (3) F
Prereq: Math 2057 or equivalent. Basic notions of general topology, with emphasis on Euclidean and metric spaces, continuous and differentiable functions, inverse function theorem and its consequences.

7511 Topology II (3) F
Prereq: Math 7510. Further development of general topology, including local properties, separation axioms, product and quotient spaces, and two selected areas from point-set topology, function spaces, fundamental group and combinatorial topology, topological groups.

7550 Differential Geometry and Topology (3) F
Prereq: MATH 7200 and 7510; or equivalent. Manifolds, vector fields, vector bundles, transversality, Riemannian geometry, other topics.

7590 Seminar in Geometry and Algebraic Topology (1-3) V
Prereq: consent of department. May be repeated for credit with consent of department. Advanced topics such as advanced algebraic topology, transformation groups, surgery theory, sheaf theory, or fiber bundles.

7680 Seminar in Geometric and Infinite-Dimensional Topology (1-3) V
Prereq: consent of department. May be repeated for credit with consent of department. Advanced topics such as geometric and infinite-dimensional topology, infinite-dimensional spaces and manifolds, geometric manifold topology, ANR and shape theory, or dimension theory.

7690 Seminar in Topological Algebra (1-3) V
Prereq: consent of department. May be repeated for credit with consent of department. Advanced topics such as topological groups, topological semigroups, or topological laces.
MECHANICAL ENGINEERING (ME)

2333 Principles of Thermodynamics—I (3) Prereq: grade of ‘‘C’’ or better in CHEM 1202, MATH 1552, and PHYS 2101; or equivalent courses. Required for mechanical engineering majors. Basic laws of thermodynamics and behavior of gases and vapors.

2733 Materials of Engineering (3) Prereq: CHEM 1202 and credit or registration in PHYS 2102. Students whose curricula require ME 3701 must take ME 3701 and 2733 concurrently. Classification and study of engineering materials, their structure, properties, and behavior; typical metals and alloys, plastics and rubber, and ceramic materials; phase equilibria and manipulation of properties and behavior by adjustment of composition and processing variables; responses of engineering materials to stresses and environmental variables.

2833 Fluid Mechanics (3) Prereq: CE 2450. Same as CE 2200. Statics and dynamics of continuous liquids and gases; control volume laws; conservation of mass, momentum, and energy; dimensional analysis and similarity; applications to pipe flows, boundary layers, isentropic compressible flow.

3103 Engineering Mechanics, Statics, and Dynamics (3) Prereq: Junior standing; PHYS 2101 and MATH 2057 or equivalent. Credit will not be given for ME 3103 and either CE 2450 or ME 3133. Equilibrium, kinematics, and kinetics of particles and rigid bodies in a plane.

3133 Dynamics (3) Prereq: CE 2450 and MATH 1552. 2 hrs. lecture; 2 hrs. recitation. Vectorial treatment of kinematics and kinetics of particles and rigid bodies; force, mass, acceleration; impulse and momentum; work and energy.

3249, 3250 Engineering Practice (1-3,1-3) Su Prereq: consent of instructor. Pass-fail grading. A minimum of 6 weeks of full-time employment by an industry participating in the summer program. Same as ENGR 3049, 3050. Selected engineering problems in an industrial environment.

3333 Thermodynamics (3) Prereq: PHYS 2101 and MATH 1552; or equivalent. Not open to mechanical engineering majors. Basic laws of thermodynamics, availability, perfect gases and pure substances, fluid flow, and basic heat transfer.

3602 Fundamentals of Instrumentation (2) Prereq: EE 3950 and 3951, or equivalent; and proficiency in English as required by the College of Engineering. 1 hr. lecture; 3 hrs. lab. Basic measurement theory; instrumentation fundamentals; analog and digital instrumentation.

3701 Materials of Engineering Laboratory (1) Prereq: proficiency in English as required by the College of Engineering. Coreq: ME 2733. 3 hrs. lab. Demonstrative and participative experiments to develop better understanding of characteristics of metals, ceramics, and plastics.

3752 Material Selection for Mechanical Engineers (2) Prereq: ME 2733 and credit or registration in CE 3405; or equivalent. Analysis of mechanical and other properties of engineering materials required for material selection; advanced engineering materials in mechanical engineering; applications and problems in processing and shaping; materials in selected mechanical systems.

3801 Fluid Mechanics Laboratory (1) Prereq: ME 2833 and 3602. 3 hrs. lab. Demonstrations and experiments in fluid mechanics; experimental procedures and instrumentation in incompressible and compressible fluid flows; pressure, velocity, and force measurements.

8000 Thesis Research (1-12 per sem.) ‘‘S’’/‘‘U’’ grading.

9000 Dissertation Research (1-12 per sem.) ‘‘S’’/‘‘U’’ grading.

3903 Special Projects for Undergraduates (3) Prereq: 2.50 cumulative gpa with consent of department. May be taken 3 times for credit. Library research, comprehensive design problems, and laboratory investigations.

4103 Kinematics and Dynamics of Machines for Technology (3) Prereq: MATH 1550 or equivalent. 2 hrs. lecture; 3 hrs. lab. For basic engineering design technology majors and for students in graduate or undergraduate programs in other colleges; may be approved by petition for use in bachelor’s or graduate programs in the College of Engineering. Kinematic and dynamic analysis of plane mechanisms; calculation of forces in mechanisms.

4133 Machine Design—I (3) Prereq: CSC 2262 and ME 3133; or equivalent. Kinematic and dynamic analysis and synthesis of mechanisms.

4143 Mechanical Vibrations (3) Prereq: CE 3405, MATH 4037, and ME 4133; or equivalent. Basic principles of oscillating systems; single and multiple degrees of freedom; dynamic balancing; applications to mechanical systems.

4153 Kinematic Synthesis of Mechanisms (3) S Prereq: ME 4133 or equivalent. Three-dimensional mechanisms; emphasis on computer solution methods.


4172 Theory and Design of Mechanical Control Systems (2) Prereq: MATH 4037, ME 3602, and credit or registration in ME 4143. Basic principles and concepts of linear feedback control systems; stability analysis; root locus method; frequency response; compensation techniques.

4173 Vibration of Discretized Systems (S) Prereq: ME 4143 or equivalent. Analysis of the oscillation of multi-degree of freedom systems using finite difference, finite element, lumped parameter, and receptance techniques.

4183 Noise Control for Engineers (3) F Prereq: credit or registration in ME 4143 or graduate standing. Basic principles of acoustics; noise measurement; instrumentation; fundamental source theory; application of silencers, barriers, and absorptive materials; case studies.

4201 Mechanical Engineering Design Laboratory (1) Prereq: ME 3602 and 4233 or equivalent; and credit or registration in ME 4143. 3 hrs. lab. Experiments involving basic concepts in machine design.

4202 Mechanical Engineering Design—II (2) Prereq: ME 3752, 4232, 4233, 4343, 4433, and credit or registration in ME 4172. 6 hrs. lab. Principles from heat transfer, thermodynamics, design, fluids, and materials courses utilized to complete the project set forth in the preliminary design outline submitted in ME 4232.

4232 Mechanical Engineering Design—I (2) Prereq: ECON 2030, senior standing in the College of Engineering, and credit or concurrent enrollment in ME 4233 and 4433. Design project, to be completed in ME 4202 will be selected and approved; project feasibility study and outline of the design project will be completed; topics from design philosophy, optimization, product reliability and liability, economics, use of ASME codes, and professional ethics.
4533 Machine Design—II (3) Prereq: CE 3405, IE 2603, ME 3701, and ME 4133; or equivalent. Principles and practice of mechanical design.

4543 Computer Graphics (3) See EGR 4243.

4553 Principles of Thermodynamics—II (3) Prereq: ME 3343 or equivalent. Principles of thermodynamics applied to classical vapor and gas cycles, equations of state, composition, and equilibrium.

4553 Advanced Engineering Thermodynamics (3) S Prereq: ME 4343 or equivalent. Postulational treatment of laws of thermodynamics; equilibrium and maximum entropy postulates; development of formal relationships; principles and application to general systems.

4583 Thermal System Design (3) Prereq: ECON 2020, ME 4343, and ME 4433. Principles and practices concerning the design and optimization of thermal systems.

4601 Heat Transfer Laboratory (1) Prereq: ME 3602 and 4433; or equivalent. 3 hrs. lab. Independent experimentation in conduction, convection, and radiation heat transfer.

4633 Heat Transfer (3) Prereq: ME 2333 or 3333, ME 4553 or MATH 4037, and ME 2833; or equivalent. Principles of heat transfer by conduction, radiation, and convection.

4643 Introduction to Combustion (3) Prereq: ME 4433. Basic principles of combustion and their application in solving engineering problems.

4533 Engineering Use of Electronic Computers (3) F Prereq: CSC 2262 or IE 2060 or equivalent; or graduate standing. General rules of FORTRAN programming with specific details applicable to campus machines; construction of FORTRAN programs to solve mathematical problems common to all engineers; numerical methods including solutions to linear and nonlinear differential equations, least-squares approximation, interpolations, and integration.

4553 Mathematical Methods in Engineering (3) See MATH 4037.

4563 Mathematical Methods in Engineering (3) See MATH 4038.

4611 Mechanical Engineering Laboratory (1) Prereq: ME 3602 and 4433; or equivalent. 3 hrs. lab. System analysis and independent experimentation.

4633 Internal Combustion Engines (3) S Prereq: ME 2333 or 3333 or equivalent. Classification of internal combustion engines, gas turbines, cycles with different components, spark-ignition gasoline engines, detonation, carburetion, compression-ignition engines, combustion and diesel knock, fuel atomization and atomizers, combustion chambers, two- and four-stroke cycle engines, and supercharging.

4643 Thermal Environmental Engineering (3) F Prereq: ME 4343 and credit or registration in ME 4433; or equivalent. Design of thermal environment for humans, animals, processes, and inanimate objects; the means of control.

4663 Power Plant Engineering (3) F Prereq: ME 4343 and 4433; or equivalent. Power plants for industrial and centralization use; emphasis on cycles, design, capabilities, and economics of the plant as a whole; components used in various types of plants.

4673 Introduction to Modern Control Theory (3) S Prereq: ME 4172 or equivalent. State space modeling, controllability, observability and stability, pole placement, optimal control laws via minimum principle and dynamic programming.

4713 Macroscopic and Microscopic Examination of Materials (3) S Prereq: ME 2733 or equivalent. Survey of image forming systems for macroscopic and microscopic examination of materials; optics; photographic and electronic image storage; excitation by photons, electrons, ions, x-rays, and ultrasonic waves; topography and internal structure; demonstration of selected techniques.

4733 Deformation and Fracture of Engineering Materials (3) F Prereq: CE 3405 and either ME 2733 or equivalent. Effect of temperature, strain rate, corrosion, and microstructure on stress-strain behavior and fracture of engineering materials, including metals, ceramics, and plastics.

4743 Principles of Physical Metallurgy (3) S Prereq: ME 2733 or equivalent; and any first course in thermodynamics. Theory of metals; emphasis on solidification and solid state transformation theory and related phenomena; thermodynamic and kinetic models used to describe transformation processes; physical and mathematical models used to describe crystal structure, point and line defects, deformation, and diffusion.

4753 Thermodynamics of Solids (3) F Prereq: ME 2333 and 2733; or equivalent. Application of classical thermodynamics to metallurgical and other solid systems; statistical interpretation of entropy; free energy and its use in explaining phase transformations; solid solutions.

4763 Fundamentals of Corrosion Science and Engineering (3) F Prereq: ME 2733 or equivalent, and any first course in thermodynamics. Corrosion principles; polarization, passivation, inhibition, and other phenomena; principal methods used in corrosion prevention.

4773 Introduction to Tribology (3) S Prereq: ME 2833; ME 3752; ME 4233. Basic laws of Tribology. Plastic-elastic deformation and friction; dry and lubricated wear; atomic and macroscopic transfer; surfaces in relative motion; nature of lubrication experimental techniques; case studies in tribology.

4833 Intermediate Fluid Dynamics (3) S Prereq: MATH 4037 and ME 2833; or equivalent. Derivation of fundamental flow equations; incompressible, two-dimensional and axisymmetric, inviscid and viscous flow analysis; laminar boundary layers; introduction to turbulence.

4843 Gas Dynamics (3) F Prereq: MATH 4037 and ME 4433; or equivalent. Derivation and review of basic equations of compressible fluid flow; reduction of the general problem to 1-D flow; 1-D flow in nozzles with and without friction; 1-D flow with heat addition; normal shock wave, Prandtl-Meyer turn, and oblique shock waves.

4933 Advanced Topics in Mechanical Engineering (3) May be taken twice for credit with consent of department. Two sections may be taken concurrently.

4943 Special Problems in Aerospace Engineering (3) Prereq: senior standing in mechanical engineering or related discipline. Aerodynamic problems of special interest in the analysis and design of water, land, air, and space transportation systems.

7103 Mechanical Analysis (3) Prereq: CE 3405, EE 2950, ME 4201 and MATH 2057; or equivalent. 2 hrs. lecture; 3 hrs. lab. Analytical prediction and experimental verification of strains velocities, accelerations, and jerk in various machines or members (static and dynamic) using a wide variety of instrumentation, simplification, and recording equipment; photoelasticity, brittle coatings, and Moire fringe methods; seismic-response theory.

7133 Optimum Synthesis of Mechanical Systems (3) S Computational design of mechanical engineering components and systems; optimum performance and design using nonlinear programming with constraints.
7143 Theory of Thermal Stress (3) F Prereq: CE 4440 or equivalent. Origin of thermal stress; external constraints, fundamental equations of uncoupled isotropic thermoelasticity; solutions of typical thermoelastic problems; properties of materials at high temperatures; problems in creep.

7153 Vibration of Continuous Systems (3) F Prereq: ME 4143 or equivalent. Analysis of continuous systems using Love's equations, Mushhtari-Vlasov equation, and Galerkin method; shells of revolution, membranes, beams, and wires.

7233 Advanced Machine Design (3) S Prereq: ME 4233 or equivalent.

7243 Bearing Design and Lubrication (3) S Prereq: ME 4773 or equivalent or consent of instructor. Derivation of fluid flow in bearings; principles of hydrodynamics lubrication and application to journal and thrust bearings; effect of environment on type of lubrication systems and lubricants; heat generation in bearing and heat transfer; compressible fluid and solid lubricants.

7253 Advanced Computer-Aided Design (3) F Prereq: CSC 2262 or equivalent. Systematic application and integration of modern interactive computer graphics.

7263 Advanced Computer Graphics (3) S Prereq: ME 4243 or equivalent. Mathematical elements of computer graphics; mathematical modeling of complex geometry in two and three dimensions for design, analysis and display; selected advanced topics in graphics.

7353 Advanced Thermodynamics—Statistical Thermodynamics (3) V Prereq: ME 4343 and 4543; or equivalent. A statistical-mechanical approach to thermodynamics, with emphasis on solution of engineering problems in nuclear engineering, gas dynamics, plasma engineering, etc.

7433 Advanced Heat Transfer—I (3) F Prereq: MATH 4016 or equivalent. Steady and transient heat conduction.

7443 Advanced Heat Transfer—II (3) F Prereq: ME 7843 or equivalent. Convection heat transfer.

7453 Advanced Heat Transfer—III (3) S Prereq: consent of instructor. Radiation heat transfer and advanced topics.

7533 Advanced Engineering Use of Electronic Computers (3) V Prereq: ME 4553 or equivalent. Computer methods used to solve engineering problems; advanced numerical methods.

7603 Advanced Experimental Methods (3) S Prereq: consent of instructor. 2 hrs. lecture; 3 hrs. lab. Applied course in contemporary analog and digital laboratory tools and techniques.

7673 Advanced Mechanical Systems Control (3) F Prereq: ME 4172 or equivalent. Analysis and design of distributed parameter feedback control systems; observability, controllability, and stability of distributed parameter systems; state estimation and optimal control of distributed systems; parameter identification and adaptive control techniques.

7701 Electron Microscopy (2) Same as BOTY 7701, GEOL 7701, MBIO 7701, ZOOL 7701.

7733 Flow and Fracture in Solids (3) S Prereq: CE 4440 or equivalent. Plastic deformation of single crystals and polycrystalline aggregates; theories of ductile and brittle fracture; internal friction; fatigue, creep and stress rupture; residual stresses; plastic forming of metals.

7743 Physical Metallurgy (3) S Prereq: ME 2733 or graduate standing. Quantitative evaluation of metallurgical ideas; atomic mechanisms, statistical mechanics, dislocation theory, and thermodynamic principles.

7753 Advanced X-Ray Metallography and Electron Diffraction (3) S Prereq: ME 2733 or equivalent. X-rays applied to problems in materials science; small-angle x-ray scattering; x-ray diffraction in crystalline and amorphous media; principles of electron diffraction and electron microscopy.

7763 Advanced Corrosion Science and Engineering (3) S Prereq: ME 4763 or equivalent. Advanced topics in corrosion; stress corrosion, high temperature corrosion, hydrogen embrittlement, etc.; thermodynamics of surfaces and corrosion.

7773 Engineering Fracture Mechanics (3) V Prereq: ME 4733 and either CE 4440 or 4460; or equivalent. Fundamentals of linear elastic fracture mechanics; elastic-plastic behavior; applications to brittle fracture, fatigue, and creep; fracture-safe design and control.

7783 Dislocation Mechanics (3) V Prereq: CE 3405, MATH 4037, and ME 2733; or equivalent. Theory of dislocations with applications to strengthening mechanisms; interaction of dislocations with point defects, other dislocations, and grain boundaries and precipitates.

7813 Computation of Boundary Layer Flows and Heat Transfer (3) F Prereq: ME 2833 and 4433 or equivalent, and CSC 1240 or 1241 or 2262 or ME 4533 or equivalent. Finite-difference methods for the solution of parabolic or boundary layer equations; use of a computer program for two-dimensional boundary layers; wall boundary layers, jets and wakes, flows in pipes, annuli, nozzles, and diffusers.

7823 Computation of Fluid Flow and Heat Transfer (3) S Prereq: ME 2833 and 4433 and either CSC 1240 or 1241 or 2262 or ME 4533; or equivalent. Finite-difference methods for solving equations of fluid motions and energy; computer program used to solve complex problems involving fluid flow, heat transfer, and chemical reaction; mathematical models for turbulence, radiation, and combustion; their computing implications; application of prediction procedures for practical situations.

7833 Inviscid Fluid Flow (3) S Prereq: ME 7863 or equivalent. Potential flow theory and gas dynamics; multidimensional compressible flow; computational gas dynamics.

7843 Viscous Fluid Flow (3) S Prereq: ME 7863 or equivalent. Navier-Stokes equations; Stokes and Oseen approximations for low Reynolds number flows; incompressible laminar boundary layer theory; transition; turbulent boundary layers, compressibility effects, and numerical methods.

7853 Advanced Boundary Layer Theory (3) S Prereq: ME 7843 or equivalent. Non-Newtonian and turbulent fluid mechanics.

7863 Fluid Dynamics (3) F Prereq: credit or registration in MATH 4038 or equivalent. Fluid dynamics as continuum mechanics; potential flow using complex variables in two dimensions and superposition in three dimensions; viscous flow and Navier-Stokes equations; compressible flow, including mach waves, shocks, and linearized aerodynamics.

7901 Seminar (1) All graduate students expected to attend this course every semester; only 1 sem. hr. of credit in this course allowed toward degree. Pass-fail grading.

7933, 7943 Mechanical Engineering Problems (3,3)

7953 Advanced Topics in Mechanical Engineering (3) May be taken twice for credit with consent of department. Mechanical engineering treatment of various areas of interest.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.
M ICROBIOLOGY (MBIO)

1001 Microorganisms and Man (3) Credit will not be given for both this course and MBIO 2051. Not open to microbiology majors. Microorganisms and their relationship to people; microbial form and function; role of bacteria in health and disease, ecology, and industry from food production to genetic engineering.

1002 Microorganisms and Man Laboratory (1) Prereq: credit or registration in MBIO 1001. 3 hrs. lab. Credit will not be given for both this course and MBIO 2051. Not open to microbiology majors. Basic laboratory skills for handling and observing microorganisms; demonstration of features of microorganisms discussed in MBIO 1001.

2051 General Microbiology (4) F,S,Su Prereq: CHEM 1001 or 1201. 2 hrs. lecture; 4 hrs. lab. Credit will not be given for both this course and MBIO 1001 or 1002. Structure and function of microbial cells and their relationship to people and the environment.

2155 Morphologic Hematology (3) F,S See BCH 2155.

3115 Advanced General Microbiology (4) F Prereq: MBIO 2051 and organic chemistry. 2 hrs. lecture; 4 hrs. lab. Growth and differentiation of microorganisms; definition, quantitation, regulation, and manipulation of these processes; their importance in basic, applied, and medical research.

4090 Marine Microbiology (3) See MRSC 4090.

4110 Introductory Microbial Physiology (3) F,S,Su Prereq: MBIO 2051 and organic chemistry; or equivalent. Concepts of bacterial nutrition, metabolism, adaptation, and genetics, as related to growth and environment.

4111 Microbial Physiology Laboratory (2) V 6 hrs. lab. Laboratory techniques used to study growth, metabolism, and cellular control of microorganisms.

4121 Immunology and Serology (4) F,Su Prereq: MBIO 2051. 2 hrs. lecture; 4 hrs. lab.

4122 Pathogenic Microbiology (4) S Prereq: MBIO 4121 or equivalent. 2 hrs. lecture; 4 hrs. lab.

4132 Eukaryotic Molecular Genetics (3) Prereq: ZOOL 2153; BCH 4084 recommended. Same as BOTY 4132 and ZOOL 4132. Molecular genetics, primarily in higher eukaryotes; gene structure and packaging in chromosomes; gene transcription and mRNA processing; translation; gene regulation; genetics in development; genetics of cancer; immunogenetics; genetic engineering in eukaryotes.

4146 Genetics of Bacteria and Bacteriophage (3) F,S Prereq: MBIO 4110 or equivalent. Mutation in bacteria, conjugation, transformation, and transduction; physiology of bacteriophage, bacteriophage as genetic material, chemical basis of heredity, and molecular aspects of mutation.

4147 Biology of Eukaryotic Microorganisms (4) Prereq: MBIO 2051, and 3115 or equivalent. 2 hrs. lecture; 4 hrs. lab. Molecular biology, physiology, genetics, morphology, development, and taxonomy of the yeasts, molds, slime molds, algae, and protozoa.

4156 Soil Microbiology (4) See AGRO 4056.

4161 Microbiology of Water, Sewage, and Industrial Wastes (4) V Prereq: MBIO 3115 and 4110; or equivalent. 2 hrs. lecture; 4 hrs. lab.

4162 Microbiology of the Dairy and Food Industries (4) V Prereq: MBIO 2051, and either 3115 or 4110; or equivalent. 2 hrs. lecture; 4 hrs. lab. Also offered as FDSC 4162.

4163 Industrial Microbiology (4) S Prereq: MBIO 3115 or 4110; or equivalent. 2 hrs. lecture; 4 hrs. lab. Microbes used in industrial processes such as production of chemicals, antibiotics, and vitamins.

4180 Cell Culture (3) S Prereq: MBIO 2051. 1 hr. lecture; 4 hrs. lab. In vitro growth and development of cells derived from plants and animals.

4190 Introductory Virology (2) F Viruses and their host cells; role and significance of viruses in the environment.

4395 Marine Field Microbiology (4) See MRSC 4395.

4919, 4920 Current Microbiological Literature (1,1) F,S Prereq: MBIO 3115 or 4110.

4933, 4934 Special Problems in Microbiology (2,2) F,S,Su 1 hr. conference; 4 hrs. lab.

7022 Marine Microbial Ecology (3) See MRSC 7020.

7148 Microbial Anatomy and Ultrastructure (2) V Prereq: MBIO 4110 or equivalent. Structure of various microbial forms.

7150 Special Topics in Microbiology (2) V Prereq: 6 sem. hrs. of microbiology beyond MBIO 2051. May be taken twice for credit when topics vary. Specialized areas of current interest.

7161 Higher Bacteria (3) V Prereq: MBIO 4110 or equivalent. Microbial systematics and ecology; emphasis on morphology and physiology of the higher bacteria.

7162 Molecular Biology of Microorganisms (3) Prereq: MBIO 4146, and either MBIO 4110 or BCH 4094; or equivalent. Synthesis, activity, and interactions of various molecular components of microbial cells; macromolecules and their relationship to cellular function and heredity.

7163 Advanced Technology of Molecular Biology—Genetic Aspects (3) V Prereq: credit or registration in BCH 7280 or MBIO 7162. 1 hr. lecture; 6 hrs. lab. Same as BCH 7163. Laboratory techniques used to study mutation, chromosomal mapping, conjugation, and transduction in bacteria and their phages.

7164 Advanced Technology of Molecular Biology—Biochemical Aspects (3) V Prereq: credit or registration in BCH 7280 or MBIO 7162. 1 hr. lecture; 6 hrs. lab. Same as BCH 7164. DNA cloning (between prokaryotes), mapping of restriction enzyme cutting sites, sequencing, heteroduplex, ultracentrifugation, and gel electrophoresis; principles of genetics emphasized.

7701 Electron Microscopy (2) F Same as BOTY 7701, ME 7701, GEOL 7701, and ZOOL 7701.

7702 Transmission Electron Microscopy Laboratory: Biological Materials (3) S Prereq: credit or registration in MBIO 7701 or equivalent. 9 hrs. lab. Same as BOTY 7702 and ZOOL 7702. Preparation of biological specimens for transmission electron microscopy; use of the electron microscope.

7703 Scanning Electron Microscopy Laboratory: Biological Materials (2) S,Su Prereq: credit or registration in MBIO 7701 or equivalent. 6 hrs. lab. Same as BOTY 7703 and ZOOL 7703. Preparation of biological specimens for scanning electron microscopy; use of the S-500 SEM.

7919, 7920 Advanced Seminar (1,1) F,S,Su Prereq: admission to the Ph.D. program.

8009 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Methods of Research in Microbiology (3) 1 hr. conference; 6 hrs. lab. May be taken twice for credit. Pass-fail grading.
8903 Microbiology for Teachers (4) Su 2 hrs. lecture; 4 hrs. lab. Relation of microorganisms to everyday living; how knowledge of these forms is used in effective teaching of high school science and home economics.

8910 Research Participation (3) Su For high school science teachers.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

MILITARY SCIENCE (MILS)

Nonimmigrant aliens require approval from their governments prior to enrollment in these courses.

1011 Learning to Lead (1) F,S,Su 1 hr. lecture; 1 hr. lab. Leadership dynamics and management techniques; the military as a model; terrorism; military customs; rank structure and role of U.S. Army.

1012 Applied Leadership (1) F,S,Su Prereq: MILS 1011 or equivalent. 1 hr. lecture; 1 hr. lab. Amplification of learning-to-lead concepts presented in MILS 1011; analysis of terrorist; overview of Soviet threat.

2161 Land Navigation and the World (2) F,S,Su Prereq: MILS 1011 and 1012 or equivalent; 2 hrs. lecture; 1 hr. lab. Map symbols and reference systems; military map reading; geographical and political relationships among the U.S., its allies, and adversaries.

2162 Time and Resource Management (2) Prereq: MILS 1011 and 1012 or equivalent; 2 hrs. lecture; 1 hr. lab. Planning, organizing, and managing the activities of small organizations; time management, correspondence; establishment of physical readiness program; international affairs.

3011 First-Year Advanced Army (3) F Prereq: MILS 2161 and 2162 or equivalent. 2 hrs. lecture; 6 hrs. lab. Leadership development, tactics, land navigation, communications, and professional development.

3012 First-Year Advanced Army (3) S Prereq: MILS 3011. 2 hrs. lecture; 6 hrs. lab. Leadership development, small unit tactics, land, navigation, communications, professional development, and physical training.

3061 Second-Year Advanced Army (3) F Prereq: MILS 3012. 2 hrs. lecture; 6 hrs. lab. Staff organization and functions, operations, logistics, leadership training, ethics, professionalism, and physical training.

3062 Second-Year Advanced Army (3) S Prereq: MILS 3061. 2 hrs. lecture; 6 hrs. lab. Professional development, administrative management, military justice, maintenance, command responsibilities, communications, and physical training.

MUSIC (MUS)

Applied Music and Ensemble Courses

Applied music instruction in the MUS 3131-3150 sequence is offered for 3 semester hours for music education students or 4 semester hours for all other music students. Courses in the MUS 3130-3150 sequence consist of 60 minutes of instruction per week; courses in the MUS 3170-3190 sequence consist of 30 minutes of instruction per week. Instructor assignments are made by the School of Music. All applied music and ensemble courses may be repeated for credit every semester. Auditions are required.

APPLIED MUSIC COURSES

60-minute lesson per week; auditions required.

3130 Voice (3)
3131 Piano (3 or 4)
3132 Harpsichord (3 or 4)
3133 Organ (3 or 4)
3134 Harp (3 or 4)
3135 Violin (3 or 4)
3136 Viola (3 or 4)
3137 Cello (3 or 4)
3138 String Bass (3 or 4)
3139 Flute (3 or 4)
3140 Oboe (3 or 4)
3141 Clarinet (3 or 4)
3142 Saxophone (3 or 4)
3143 Bassoon (3 or 4)
3144 Trumpet (3 or 4)
3145 French Horn (3 or 4)
3146 Euphonium (3 or 4)
3147 Trombone (3 or 4)
3148 Tuba (3 or 4)
3149 Percussion (3 or 4)

3150 Guitar (3 or 4)
7000 Graduate Applied Music (variable credit; 3 to 6)

30-minute lesson per week

3170 Voice (2)
3171 Piano (1.5 or 2)
3172 Harpsichord (1.5 or 2)
3173 Organ (1.5 or 2)
3174 Harp (1.5 or 2)
3175 Violin (1.5 or 2)
3176 Viola (1.5 or 2)
3177 Cello (1.5 or 2)
3178 String Bass (1.5 or 2)
3179 Flute (1.5 or 2)
3180 Oboe (1.5 or 2)
3181 Clarinet (1.5 or 2)
3182 Saxophone (1.5 or 2)
3183 Bassoon (1.5 or 2)
3184 Trumpet (1.5 or 2)
3185 French Horn (1.5 or 2)
3186 Euphonium (1.5 or 2)
3187 Trombone (1.5 or 2)
ENSEMBLE COURSES

Auditions for new students are held during registration at the beginning of each semester. These courses are open to freshmen and sophomores.

*These courses will satisfy the requirement to participate in a major ensemble each semester.

**Piano Ensemble (1)**
221 Vocal Chamber Music (1)
222 Woodwind Chamber Music (1)
223 Brass Chamber Music (1)
224 String (or Piano and Strings) Chamber Music (1)
225 Collegium Musicum (1)
226 Percussion Ensemble (1)
227 Marimba Ensemble (1)
228 New Music Ensemble (1)
230 Gospel Choir (1)
231 Swing Choir (1)

4220 Men's Chorus (1)
4233 Women's Chorus (1)
4234 University Chorus (0-1)*
4235 Chamber Choir (1)
4236 A Cappella Choir (1)*
4240 Opera Chorus (1)
4250 Tiger Marching Band (1)*
4251 Wind Ensemble (0-1)*
4252 Concert Bands (0-1)*
4253 Jazz Band (1)
4260 Philharmonia (1)
4261 Symphony Orchestra (0-1)*

General Courses

1001, 1002 Voice Class (2,2) Open to non-music majors with consent of instructor. Group instruction in voice production.

1018, 1019 Diction for Singers—1, 11, 2, 2 (1,1) 1 hr. lecture; 1 hr. lab. Phonetics and phonemes used in singing in different languages; 1018 includes the phonetic alphabet and English diction; 1019 includes the phonetic alphabet and Italian diction.

1107 Secondary Piano (3) 2 half-hour lessons. May be taken twice for credit.

1108, 1109 Piano Class (2,2) MUS 1108 is prerequisite for 1109. 1 hr. lecture; 2 hrs. lab. Open only to non-music majors. Instruction for the beginner and lower intermediate student.

1130, 1131, 1132, 1133 Group Piano—1, 1, 1, 1 (1 each) Open only to music majors. Required of all non-keyboard music majors who do not meet proficiency requirements. Functional use of the piano.

1700 Recital Hour (0) May be repeated. Pass-fail grading. Weekly student recital and music seminar.

1701 First-Year Theory (4) 5-6 hrs. lecture and lab. Lab assignments depend on student's needs. Elements of form, melody, rhythm, harmony, and aural skills.

1702 First-Year Theory (4) Prereq: MUS 1701 or equivalent. 5-6 hrs. lecture and lab. Lab assignments depend on student's needs. Elements of form, melody, rhythm, harmony, and aural skills.

1741 Introduction to Composition—1 (2) Basic compositional techniques, analysis, and audio perusal of selected works.

1742 Introduction to Composition—II (3) Prereq: MUS 1741 or equivalent. Continuation of MUS 1741.

1751 Music Appreciation (3) Primarily for non-music majors. The art of music, with emphasis on listening skills; a non-technical approach to understanding vocabulary and materials of music; correlation of musical literature with other disciplines in the humanities.

1752 Music Appreciation (3) Primarily for non-music majors. The varied facets of the musical arts: folk music, symphony, opera, ballet, vocal, and chamber music.

1753 Survey of Music History I (3) Some prior music experience is desirable. Music of western civilization from ca. 400 to ca. 1730.

1754 Survey of Music History II (3) Some prior music experience is desirable. Music of western civilization from ca. 1730 to the present.

1799 Rudiments of Music (3) Not open to music majors. The grammar of music, including basic notation and elementary construction leading to a study of tonal harmony.

2000 History of Jazz (3) Open to non-music majors. Survey of the evolution of jazz and jazz styles.

2018, 2019 Diction for Singers—11, 11, 11, 11 (1,1,1) Phonetics and phonemes used in singing in different languages; 2018 includes the phonetic alphabet and German diction; 2019 includes the phonetic alphabet and French diction.

2100, 2101 Advanced Keyboard Skills—I, 1, 1 (1) Open only to keyboard majors. Functional use of the piano; emphasis on reading, harmonization, and improvisation.

2170 Music Education in the Elementary School—I (3) Music fundamentals, materials, methods, and skills involved in teaching general music in the elementary school.

2171 Music Education in the Elementary School—I (3) Prereq: MUS 2170 or equivalent. Fundamentals of music theory, advanced materials, methods, and skills involved in teaching general music in the elementary school; emphasis on use of guitar to teach music lessons.

2300 Instrumental Techniques (1-3) May be repeated for credit. For prospective secondary school teachers. Development of fundamental skills in wind and percussion instruments.

2301 Class Strings (3) Open only to strings majors for study of secondary string instruments. Beginning group instruction.

2711 Theory (4) Prereq: MUS 1702. Elements of harmony, melody, rhythm, and keyboard and aural skills.

2712 Theory (4) Prereq: MUS 2711. A continuation of MUS 2711.

2741 Composition Techniques—I (3) Prereq: MUS 1742 or equivalent. Basic part-writing in 20th century idioms; analysis and audition of selected scores.
2742 Composition Techniques—II (3) Prereq: MUS 2741 or equivalent. Continuation of MUS 2741.

2751 Jazz Improvisation—I (2) Prereq: MUS 2712 or equivalent. Introductory performance course in jazz improvisation; emphasis on its theoretical basis.

2752 Jazz Improvisation—II (2) Prereq: MUS 2751 or equivalent. Continuation of MUS 2751.

3000 Honors in Music (1-4) Prereq: junior standing. May be repeated for credit for a max. of 6 sem. hrs. Preparation of an honors project.

3018 Vocal Pedagogy (3) Prereq: 12 sem. hrs. of applied voice study. Principles and processes of voice production; psychology of teaching and studying singing; beginning comparative pedagogy; vocal repertoire for the beginning singer.

3700 Theory Survey (2) Admission by placement examination. 4 hrs. lab. Written and aural aspects of theory.

3711 Form and Analysis (3) Prereq: MUS 2711. Evolution of forms and textures of representative works from various periods of music history.

3741 Composition (3) Prereq: MUS 2742 or equivalent. May be repeated for credit. Composing in various forms and for various media.

3748 Choral Conducting (2) F only Credit will not be given for both this course and MUS 3749. Elements of conducting choral groups.

3749 Choral Literature and Conducting—I (3) Credit will not be given for both this course and MUS 3748. Elements of conducting choral groups; survey of choral literature for secondary school teaching.

3750 Choral Literature and Conducting—II (3) Prereq: MUS 3749 or equivalent. Continuation of MUS 3749.

3757, 3758 Organ Literature, History, and Design (3,3) MUS 3757 is prerequisite for 3758. Evolution and development of the organ and its literature; development of keyboard (organ) forms, techniques, and idiomatic styles; organ mechanism and action; tonal structure; design problems.

3771 Instrumental Conducting—I (2) Elements of conducting instrumental groups.

3772 Instrumental Conducting—II (1) Prereq: MUS 3771 or equivalent. Continuation of MUS 3771.

3997 Directed Studies in Music (1-3) Prereq: consent of departmental faculty concerned and dean of the School of Music. May be repeated for credit for a max. of 6 sem. hrs. MUS 3997 cannot be used in lieu of a required course in any School of Music curriculum.

4000 Music Workshops (1-3) Su only May be repeated for credit when topics vary. Topics announced in advance.

4101 Piano Accompanying (1) 2 hrs. lab. Open to pianists. Principles and practical application of accompanying.

4102 The Advanced Coaching and Accompanying of Art Songs (2) Open to singers and pianists who have completed the sophomore year, or its equivalent, in their major performance areas.

4241 Opera Theater (2) Admission by audition. 4 hrs. lab; 1 hr. individual musical coaching. May be taken 4 times for credit toward the master's degree. May not be taken concurrently with MUS 9007. Because the first production scheduled in the spring semester is cast and rehearsals are begun during the last part of the fall semester, students must schedule this course both semesters unless permission to schedule one semester only is granted by instructor. Except in special cases, fall semester grades will be "I" until the first spring-semester opera has been produced. Techniques of the musical theater, including actual performance.

4351 Song Literature—I (2) The art song repertoire from the classical songs of Haydn and Mozart to the Romantic period.

4352 Song Literature—II (2) The art song repertoire from the French mélodie to contemporary English and American song.

4701, 4702 Organ Practicum (2,2) Prereq: consent of instructor. MUS 4701 is prerequisite for 4702. Techniques of service playing; techniques and materials of organ pedagogy.

4703 The Scientific Bases of Music (2) Musical acoustics; nature and generation of sound; computation of intervals and scales within various systems of tuning and temperament.

4710 Advanced Aural Skills (2) Prereq: MUS 2712. Concentrated work in sight singing with a special emphasis upon skills needed for professional activity in performance, conducting and composition.

4712 Advanced Form and Analysis (3) Prereq: MUS 3711. Complex forms and harmonic techniques of the 19th and 20th centuries.


4719 Styles and Practices of the Late Romantics and Transition to the 20th Century (3) Prereq: MUS 3711. Tonality, harmony, and form from Wagner through the Impressionist period; analysis of selected literature and creative writing in Ultra-Chromatic and Impressionist styles.

4720 Styles and Practices in the 20th Century (3) Prereq: MUS 3711. Study of principal currents of musical composition in this century; analysis of selected works and creative application of techniques, procedures, and formal schemes studied.

4721, 4722 Modal Counterpoint (3,3) Prereq: MUS 2712 or equivalent. MUS 4721 is prerequisite for 4722. 16th-century counterpoint.

4723 Tonal Counterpoint (3) Prereq: MUS 2712 or equivalent. Writing of counterpoint in two and three parts to a given cantus firmus; imitative contrapuntal forms such as the invention and the fugue.

4724 Advanced Tonal Counterpoint (3) Prereq: MUS 4723 or equivalent. Writing of contrapuntal forms in four and five parts with use of advanced contrapuntal techniques and expanded harmonic vocabulary.

4730 Elementary Orchestration (2) Prereq: MUS 2712. Traditional scoring practices.

4731 Intermediate Orchestration (2) Prereq: MUS 4730. Orchestrating for full orchestra including extraordinary instruments; avant-garde orchestral practice.

4732 Band Arranging (2) Prereq: MUS 2712. Scoring for band; transcription from other media and original composition.

4735 Jazz Arranging (2) Prereq: MUS 2712 or consent of instructor. Jazz arranging styles and techniques, from Dixieland to modern jazz.

4743 Electronic Music Composition (3) Prereq: composition in other media and consent of instructor. May be repeated for credit. Use of equipment in the electronic studio; compositional techniques used in construction of electronically assembled works.
4745 Computer Music (3) Prereq: MUS 4743 or equivalent. May be taken twice for credit. Digital sound synthesis; composition with digital synthesizers.

4750 Music of the Middle Ages and the Renaissance (2) Prereq: MUS 1753, 1754. Required of all music majors; open to others with consent of instructor. The history of music from ca. 800 to 1600.

4751 Music of the Baroque and Classic Eras (2) Prereq: MUS 1754 or equivalent. Required of music majors; open to others with consent of instructor. Music of the western world from ancient Greece to ca. 1700.

4752 Music of the Romantic and Modern Eras (2) Prereq: MUS 1753, 1754. Required of music majors; open to others with consent of instructor. The history of music from ca. 1815 to the present.

4753 Folk and Traditional Music—Music History and Literature (2) Background and history of folk and traditional music; emphasis on Anglo-American folksongs.

4754 Folk and Traditional Music—Music History and Literature (2) Prereq: MUS 4753 or equivalent. Unwritten music of folk cultures; emphasis on Afro-American styles.

4755, 4756 Hymnology and Church Music (3,3) Music in worship from the Middle Ages to the 20th century; literary and musical aspects of the hymn and of the liturgy of the divisions of the ecclesiastical year.

4757 Piano Literature—I (3) A survey of the keyboard repertoire from the late renaissance through Haydn and Mozart.

4758 Piano Literature—II (3) A survey of piano literature from Beethoven to the present.

4761, 4762 The Care and Repair of Band and Orchestral Instruments (1,1) Prereq: MUS 2300 or equivalent. 2 hrs. lab. For students with experience in instrumental music and a practical knowledge of the problems in instrumental upkeep.

4763, 4764 Piano Methods and Materials (3,3) Materials and techniques for the piano teacher.

4766 Marching Band Techniques (3) Charting techniques for marching band; emphasis on contemporary drill design; practical projects in charting drill.

4767 Piano Design, Construction, and the Theory of Tuning and Temperament (2) 1 hr. lecture; 2 hrs. lab. Open only to music majors. Piano and harpsichord design, construction, regulation, voicing, and tunings; knowledge important to pianists; laboratory experience in regulation, tuning, and voicing.

4769, 4770 Supervised Studio Instruction (2,2) Program tailored to needs of each student by the major applied teacher who supervised the student's studio teaching program.

4789, 4790 Musical Theatre Production (2,2) Each course may be repeated for credit. Open to advanced musicians interested in producing musical theatre. Various aspects of the lyric theatre: creation of the musical dramatic role, staging techniques for singers, coordination of set design, lighting, makeup, costuming, budgeting, and publicity.

4791 Introduction to Opera (3) Open to majors and non-majors. History, production, and performance of opera from 1600 to the present.

4796 Senior Project in Music Theory (2) A written project on an approved topic in music theory. Required of all theory emphasis students in the composition curriculum.

4797 Senior Recital (1-3) May be repeated for a max. of 3 sem. hrs. credit.

4798 Senior Composition Recital (1) Concert of solo and chamber works.

4799 Coaching in Applied Music (2) Prereq: MUS 4797 and recommendation of the applied-music faculty concerned. May be repeated for credit.

4800 Foundations and Principles of Music Education (3) Historical, philosophical, and aesthetic foundations of music education; derivation of contemporary principles from the practice of music education; current trends and issues.

4801 Psychology of Music (3) Prereq: PSYC 2060 and 4070. Physical and psychological bases of musical phenomena, perception of musical phenomena, musical preferences, musical ability, and musical learnings in the cognitive, affective, and psychomotor domains of learning.

7010 History of Musical Style—I (3) Prereq: MUS 4751 and 4752; or equivalent. History of music in the western world from pre-Christian Greek and Hebrew roots to about 1700 as seen from the perspective of changing musical styles; emphasis on specific characteristics of the various styles as determined from major compositions and treatises of each period.

7011 History of Musical Style—II (3) Prereq: MUS 4751 and 4752; or equivalent. Changing musical styles from the mature baroque (ca. 1700) to the present; the music and ideas of leading composers of western music.

7124 Seminar in String Literature (2) Methods, solos, and chamber music for strings.

7126, 7127 Seminar in Woodwind Literature—I,II (2,2) Methods, solos, and ensemble literature for woodwinds.

7128 Seminar in Brass Literature (3) Methods, solos, and ensemble literature for brass instruments.

7130 Seminar in Percussion Literature (2) Methods, solos, and ensemble literature for percussion instruments.

7170, 7171 Advanced Vocal Pedagogy (2,2) Also offered as EDCI 7170, 7171.

7172 Stringed-Instrument Pedagogy (2) Also offered as EDCI 7172.

7173 Woodwind-Instrument Pedagogy (2) Also offered as EDCI 7173.

7174 Brass-Instrument Pedagogy (2) Also offered as EDCI 7174.

7175 Percussion-Instrument Pedagogy (2) Also offered as EDCI 7175.

7221 Solo Literature for the Voice (3) Prereq: MUS 4351 and 4352; or equivalent. Solo vocal literature in German and French; emphasis on styles of performance.

7222 Solo Literature for the Voice (3) Prereq: MUS 4351 and 4352; or equivalent. Solo vocal literature by English, American, Italian, Scandinavian, Eastern European, Russian, Spanish, and Latin American composers; emphasis on styles of performance.

7500 Advanced Teaching Practicum (1-2) Prereq: MUS 4769 and 4770; or equivalent. May be repeated for credit. A total of 3 sem. hrs. is applicable to the M.M. degree. Supervised teaching internship of instrumental and/or vocal instruction in private and/or group settings.

7501 Piano Pedagogy and Literature—I (2) Prereq: MUS 4763 and 4764; or equivalent. Piano methods and literature at the elementary and intermediate levels.

7502 Piano Pedagogy and Literature—II (2) Prereq: MUS 4763 and 4764; or equivalent. Piano methods and literature at the intermediate and advanced levels.
7701 Pedagogy of Music Theory (3) Techniques for teaching undergraduate music theory and aural skills courses; comparisons of principal philosophies and textbooks.

7703 20th-Century Musical Practices (3) 6 sem. hrs. applicable to the M.M. degree; 6 additional sem. hrs. applicable to the M.D.M. degree. Compositional trends in 20th-century music; discussion of books on composition; analysis of major compositions.

7704 Schenkerian Analysis (3) Introduction to the ideas and practices of tonal theorist, Heinrich Schenker; their effect upon musical thought and performance in this century.

7711 Seminar in 20th-Century Musical Analysis (3) May be taken twice for credit. Analytical study of specific composers, works, or styles.

7721 Survey of Choral Literature—1 (2) A survey of choral literature beginning with Gregorian Chant and ending with the Baroque period of music with an emphasis on preparation for performance.

7722 Survey of Choral Literature—II (2) A survey of choral literature beginning with the Classical period and ending with contemporary music for chorus, with an emphasis on preparation for performance.

7723 Survey of Wind Literature—1 (2) A survey of chamber wind literature (6 to 20 performers) from the late Renaissance to the present day.

7724 Survey of Wind Literature—II (2) A survey of orchestra, large wind ensemble, and large wind band literature (over 20 performers) from the French Revolution to the present day.

7725 Survey of Symphonic Literature—1 (2) A survey of orchestral works beginning with the Baroque period of music and ending with the early Romantic; emphasis on preparation for performance.

7726 Survey of Symphonic Literature—II (2) A survey of orchestral works beginning with the Romantic period and ending with twentieth century music for orchestra with emphasis on preparation for performance.

7749, 7750 Special Studies in Piano Literature (2,2) Each course may be taken twice for credit when piano literature varies. Total amount of credit applicable to M.M. degree limited by student's advisory committee. Works of certain composers for the keyboard as selected concerts.

7751 Ancient and Medieval Music (3) History of music from ancient Greeks and Hebrews through the 14th century.


7753 Music in the Baroque Era (3)

7754 Music in the Classical Era (3)

7755 Music in the Romantic Era (3)

7756 Music in the Modern Era (3)

7757 American Music (3) The most important phases in development of music in the U.S.

7760 Performance Practices (3) Primary and secondary source materials dealing with the performance of music in the 17th and 18th centuries; their application to the interpretation of music.

7762 Measurement and Evaluation in Music (3) Teacher-designed and standardized tests in music; learning theories.

7763, 7764 Comparative Methods in Music Education (3,3) Techniques in teaching music; functional projects; approaches and texts evaluated with emphasis on curriculum construction; 7763 deals with elementary grades, 7764 with secondary.

7766 Supervision of Music Education (3) Aims and functions of supervision in music education; problems of music consultants; in-service procedures; administration of music education programs.

7767 Experimental Research in Music (3) Prereq: EDAD 4006 and MUS 7905. Primarily for doctoral students in music. Systematic investigation of musical behavior and music learning; collection, quantification, and treatment of data; current research.

7771, 7772 Advanced Choral Conducting (3,3) Prereq: previous study of conducting. A study of the techniques required to conduct all styles of choral music with an emphasis on score analysis and performance practices.

7773, 7774 Advanced Band Conducting (3,3) Prereq: previous study of conducting. A study of the techniques required to conduct all styles of wind music with an emphasis on score analysis and performance function.

7775, 7776 Advanced Orchestral Conducting (3,3) Prereq: previous study of conducting. A study of the techniques required to conduct all styles of symphonic music, with an emphasis on score analysis and performance practices.

7777, 7778 Advanced Keyboard Literature—I,II (3,3) Prereq: MUS 4757, 4758, 4759, and 4760; or equivalent. Genres and styles from earliest examples in keyboard literature through the most recent trends.

7798 Master's Recital (1-3) Prereq: MUS 4797 or equivalent. May be repeated for a max. of 3 sem. hrs. credit.

7799 Advanced Coaching in Applied Music (2) Prereq: MUS 7798 or equivalent. May be taken twice for credit.

7800 Introduction to Research (1-2) Required of all doctoral students; recommended for master's students who will write theses. Music education students register for 1 sem. hr. Research, bibliography, and source materials.

7901 Composition (1-3) Individual instruction for graduate composition. Participation in the Composer's Forum is considered part of the course work and is, therefore, required. May be repeated for credit.

7903, 7904 Seminar in Music History (2-3,2-3) Each course may be taken 3 times for credit. Only 6 sem. hrs. applicable to the M.A. degree; only 12 additional sem. hrs. applicable to the Ph.D.; maximum for M.A. and Ph.D. combined is 18 sem. hrs.

7905, 7906 Seminar in Music Education (2-6,2-6) Each course may be taken 3 times for credit. Only 6 sem. hrs. applicable to the M.M.Ed. degree; only 12 additional sem. hrs. applicable to the Ph.D.; maximum for M.M.Ed. and Ph.D. combined is 18 sem. hrs.

7921 Seminar in Music Theory (3) Primarily for master's candidates; May be taken twice for degree credit.

7997 Individual Projects in Music (1-3) Prereq: consent of departmental faculty concerned and dean of the School of Music. May be repeated for credit as follows: for master's degree, 3 sem. hrs.; for doctoral degree, 6 sem. hrs. beyond the master's or a total of 9 sem. hrs. if both master's and doctoral totals included.

8000 Thesis Research (1-12 per sem.) "S"/'U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/'U" grading.

9001 First Doctoral Solo Recital (1-3) Pass-fail grading.

9002 Second Doctoral Solo Recital (1-3) Pass-fail grading.

9003 First Doctoral Lecture Recital (1-3) Pass-fail grading.
NUCLEAR SCIENCE (NS)

Students and staff utilizing facilities of the Nuclear Science Center must take, as their initial training, Nuclear Science 2051, 3411, or 4101, or must have equivalent prior training or experience.

2051 Contemporary Radiological Science (3) F*S Prereq: one semester of chemistry or physics. Radioactivity in nature; synthetic radionuclides and radiation sources; radiological applications in industry, chemistry, biomedical sciences, engineering, and energy production; radiological safety.

3411 Fundamentals of Nuclear Radiation Science (3) F, S Prereq: one sem. of MATH 1021 or equivalent and one sem. of chemistry or physics; 2 hrs. lecture; 3 hrs. lab. Nuclear structure, transmutations, decay, interactions of radiation with matter; radiation detection and measurement.

4101 Tracer Methodology for Biological Sciences (3) F,S 2 hrs. lecture/demonstration; 3 hrs. lab. Specifically for students in the biological sciences. Properties of ionizing radiation, instruments for detecting and measuring radiation, and biological uses of radioisotopes.

4141 Radioecology (3) F Prereq: NS 4101 or equivalent. 2 hrs. lecture; 3 hrs. lab. Also offered as ENVS 4141. Radiotracers, stable tracers, and radiation effects in both natural and laboratory-contained communities of organisms.

4331 Radiation Hazards and Control (4) F Prereq: NS 3411 or 4101 or equivalent. 3 hrs. lecture; 3 hrs. lab. Consequences of human exposure to high-energy radiation; control of radiation hazards, including exposure limits, detection techniques, shielding, laboratory design, emergency action, and federal and state regulations.

4351 Advanced Radiation Detection and Measurement (3) V Prereq: NS 3411 or 4101 or equivalent. 2 hrs. lecture; 3 hrs. lab. Operation, construction, and application of radiation detection systems; selection, calibration, and electronic matching of systems to counting problems; sophisticated systems for counting and for control of engineering systems.

4425 Computer-Aided Nuclear Design (3) V Prereq: CSC 1241 and NS 4527; or equivalent. Application of available computer programs to a broad spectrum of problems in nuclear science.

4481 Industrial Applications of Radioisotopes (3) S Prereq: NS 2051 or 3411 or equivalent. 2 hrs. lecture; 3 hrs. lab. Radioisotope applications pertinent to industry; measuring wear, mixing efficiency, fluid density, solids density, washing efficiency, flow conditions, radiography, bulk inventory, etc.

4991, 4992 Special Problems in Nuclear Science (1-4, 1-4) F,S Prereq: thorough knowledge of mathematics, science, and engineering related to the proposed problem; and consent of instructor and director. Theoretical or experimental problems involving the application of nuclear technology.

7101 Advanced Tracer Methodology for Biological Sciences (3) S Prereq: NS 4101 or equivalent. 2 hrs. lecture; 3 hrs. lab. Qualitative and quantitative aspects of tracer applications in modern biological research; combining tracer techniques with other analytical methods.

7115 N-15 Stable Tracer Methodology for Biological Sciences (2) S-E Prereq: consent of instructor. 1 hr. lecture; 3 hrs. lab. Quantitative N-15 tracer applications and methodology in biological nitrogen systems; combining N-15 procedures with mass spectrometer techniques.

7121 Radiobiology (3) S Prereq: NS 4101 or equivalent. 2 hrs. lecture; 3 hrs. lab. Effects of ionizing radiation on molecular, cellular, and organ system levels of biological orga-
nization; study of x-rays, gamma rays, and accelerator beams in interaction with living systems.

7210 Clinical Principles in Radiation Therapy (3) F Prereq: NS 4101, 7121 or equivalent. Clinical principles utilized in the treatment of malignant disease with external beam irradiation and sealed source brachytherapy techniques.

7270 Technical Methodology in Radiation Therapy (3) S Prereq: NS 4101, 7121 or equivalent. 2 hrs. lecture; 3 hrs. lab. Technical aspects of the treatment of malignant disease; instruments and their limitations; calibration and dosimetry techniques; clinical practice.

7331 Radiation Dosimetry (3) V Prereq: NS 4331 or equivalent. Methods for measuring radiation fields and absorbed radiation doses by ion-collection devices, photographic methods, solid-state systems, chemical systems, and calorimetric methods, as applied to isotopic and machine sources.

7520 Nuclear Reactor Materials (3) V Principles governing structure and properties of materials used in nuclear reactors; radiation effects, problems in selection, fabrication, and use of these materials.

7525 Nuclear Engineering Laboratory (2) S Prereq: credit or registration in NS 7527. 6 hrs. lab. Operation of nuclear counting and spectroscopy systems; measurements of neutron behavior in multiplying and nonmultiplying media; development of design parameters from empirical data.

7527, 7528 Reactor Engineering (3,3) F,S Prereq: consent of department. NS 7527 is prerequisite for 7528. Homogeneous and heterogeneous reactors, diffusion, and transport theories for neutron flux calculations; criticality calculations; two-group and multi-group methods; transient behavior and reactor control; temperature and void effects; perturbation theory.

7530 Nuclear Shielding Analysis and Design (2) F Nuclear radiation interactions and their application to the design and analysis of shield systems; calculation of source terms, geometric transformations, attenuation factors, and heating rates associated with photon and neutron shielding.

PETROLEUM ENGINEERING (PETE)

2020 Introduction to Petroleum Engineering (3) Scientific bases of petroleum geology and chemistry, exploration, drilling, production, reservoir engineering, and refining.

2060 Use of Microcomputers in Petroleum Engineering (2) Prereq: EGR 1001, MATH 1552, and PETE 2020. Non-majors by consent of department only. 4 hrs. lab. Operating system, high-level programming languages, wordprocessing, and spreadsheets; elementary numerical methods; applications to elementary petroleum engineering problems.

3025 Economic Aspects of Petroleum Production (3) Prereq: PETE 2020 and either PETE 2600 or QBA 2000 and either MATH 1431 or 1550. Mineral ownership and leasing in Louisiana; profitability analysis; risk analysis; evaluation of petroleum properties.

3031 Petrophysics (3) Prereq: PETE 2060 and PHYS 2102. Steady-state flow and fluid distribution in reservoir rock as influenced by porosity, permeability, fluid saturations, and wettability; electrical, elastic, and nuclear properties.

3032 Phase Behavior of Hydrocarbon Systems (3) Prereq: PETE 2060 and ME 3333. Theory and application of phase behavior and thermodynamics to reservoir and surface systems of complex hydrocarbon mixtures.

3034 Rock and Fluid Properties Laboratory (1) Prereq: credit or registration in PETE 3031 and 3032. 3 hrs. lab.

7555 Nuclear Reactor Analysis (3) S Prereq: MATH 4036, 4340, and NS 4527; or equivalent. Numerical methods and solutions to multigroup diffusion and transport equations; Monte Carlo techniques and their application in nuclear engineering; fission reactor kinetics, feedback analysis, neutron system analysis; advanced energy systems.

7566, 7567 Advanced Nuclear Reactor Systems (3,3) F,S Prereq: NS 4527 or equivalent. Engineering aspects of fission reactor systems, including fuel behavior, energy removal, materials selection, and core interface with the balance of the plant.

7652 Radiation Effects on Nonmetals (4) V Prereq: NS 3411 or 4101; and CHEM 2261, 2262, 4491, and 4492. 3 hrs. lecture; 3 hrs. lab. Theoretical principles and practical consequences of effects produced by irradiation with high-energy radiations on nonmetals.

7662 Nuclear Activation Analysis (2) V Prereq: NS 3411 or 4101 or equivalent. 1 hr. lecture/demonstration; 3 hrs. lab. Nuclear transmutations, radiation detection-measurement, data reduction, and laboratory techniques.

7991 Advanced Projects in Nuclear Science and Engineering (1-3) Prereq: NS 4101 or 4331 or 4527, and consent of director. Theoretical or experimental problems involving the application of nuclear technology.

7992 Advanced Topics in Nuclear Science and Engineering (3) Prereq: consent of director. May be taken twice for credit when topics vary. Advanced treatment of a specific area of nuclear technology of current interest.

7995 Seminar (1) F,S Required every semester for degree candidates in nuclear engineering. Only 1 sem. hr. of credit may be counted toward degree.

7999 Report Investigation (1-6) Prereq: NS 4101 or 4331 or 4527; and consent of instructor. May be repeated for credit. Detailed analysis of a technical problem or a comprehensive design project.

8000 Thesis Research (1-12 per sem.) "S"/"I"/"U" grading.

3036 Introductory Well Logging (3) Prereq: EE 2950, PETE 3031. Qualitative and quantitative formation evaluation by means of electric, acoustic, and radioactive well logs.

3037 Petroleum Field Operations (1) Prereq: credit or registration in PETE 3036; 3 hrs. lab. Field operations required for well logging; cement design and testing; subsurface pressure measurements; well surveys; and cleaning of drilling fluids.

3053 Petroleum Engineering Aspects of Subsurface Geology (3) Prereq: GEOL 1003, GEOL 1601, and PETE 3036; or senior status in geology. Engineering aspects of petroleum geology; interpretation of subsurface data; reservoir mapping; determination of reservoir volume.

3990 Independent Research (1-2) May be repeated for credit for a max. of 3 sem. hrs. Number of hours, outline of proposed work and name of faculty supervisor must be stated at time of registration. Individual research or engineering studies with faculty supervision.

4045 Drilling Engineering (3) Prereq: CHEM 1212, CE 3400, ME 2833, and PETE 3032, 3034, and 3037. Rotary drilling equipment; composition and properties of drilling fluids and cements; annular and pipe flow of Newtonian and non-Newtonian fluids; optimization of jet bit hydraulics; blowout prevention.
4046 Well Design—Production (3) Prereq: ME 3133 and PETE 4045. Analysis and design of well production systems, well pumping, gas lift, hydraulic fracturing, surface separation, and treating equipment.

4051 Reservoir Engineering (3) Prereq: PETE 3031, 3032, 3034, and 3037. Quantitative study and behavior prediction of volumetric and water-drive reservoir systems by material balance.

4052 Reservoir Engineering (3) Prereq: PETE 4051. Flow and displacement dynamics of single and multiphase fluid systems in homogeneous and heterogeneous porous media in both steady and unsteady states.

4056 Numerical Methods and Reservoir Simulation (3) Prereq: MATH 2057 and PETE 2060, and credit or registration in PETE 4052. Advanced concepts in programming and computer use; numerical techniques used in the solution of problems in drilling, production, and reservoir engineering; theory and practice of computer reservoir simulation.

4057 Petroleum Production Laboratory (1) Prereq: PETE 3032 and 3034, 3 hrs. lab. Instruments, equipment, and systems used in oil and gas production; pollution prevention and safety systems in off-shore production operations.

4058 Reservoir Engineering Laboratory (1) Prereq: credit or registration in PETE 4052. 3 hrs. lab. Accompanies PETE 4052.

4059 Drilling Fluids Laboratory (1) Prereq: credit or registration in PETE 4045. 3 hrs. lab. Accompanies PETE 4045.

4060 Prevention of Oil and Gas Well Blowouts (1) Prereq: credit or registration in PETE 4045, 3 hrs. lab. Causes and detection of well kicks and the proper handling of these kicks to prevent uncontrolled flow (blowout) from the well; methods and techniques currently used in the oil and gas industry.


4085 Advanced Production Engineering (3) Prereq: PETE 3032 and 3034. Operating principles and design criteria for equipment used in field processing of oil and gas, e.g., lean oil gasoline plants, gas dehydration units, gas sweetening units, cryogenic gasoline plants, separators, gas transmission and compression facilities.

4086 Advanced Drilling Engineering (3) Prereq: PETE 4045. Bit selection and evaluation; mathematical modeling of bit wear and penetration rate; optimization of bit weight and rotary speed; determination of formation pore pressure and fracture pressure; selection of well casing and casing setting depths; directional drilling.

4088 Well Logging (3) Prereq: PETE 3026. Quantitative interpretation of electric, sonic, nuclear, and dipmeter logs by overlay, crossplot, and digital evaluation methods; multiple-tool logging programs that provide comprehensive description of reservoir content productivity.


4999 Senior Project (1) Prereq: PETE 4045 and 4051. Written and oral presentation required. Theoretical and/or experimental investigation, including a literature review, of an approved topic in petroleum engineering.

7201 Advanced Reservoir Engineering (3) Prereq: PETE 4052 and 4056, or equivalent. General hydrodynamic equations for flow of fluids through porous media; two-dimensional flow problems and potential theory methods; gravity flow systems; two-fluid systems; systems of non-uniform permeability; multiple well systems using computerized streamline tracking methods.

7202 Advanced Reservoir Engineering (3) Prereq: PETE 4051 and 4052. Unsteady-state flow of reservoir fluids in porous media; application of theory to pressure buildup analysis, well interference testing, pulse testing, pressure drawdown analysis, drill stem testing, and water influx prediction.

7211 Multiphase Flow in Pipes and Annuli (3) Prereq: ME 2833, 3333, and PETE 4046 or consent of instructor. Use of multiphase flow correlations to determine flow rates and pressure traverses in flowing oil wells, gas-condensate wells, gathering systems, and pipe lines; applications of correlations to the design of gas lift systems.

7212 Well Completion Design (3) Prereq: PETE 4046 or consent of instructor. Systems analysis for optimum production by designing best combination of tubing, flowlines, and choke sizes; perforation density and separator pressure; inflow performance of reservoirs; well completion techniques; gravel packing; tubing effects.

7221 Downhole Drilling Data Acquisition and Processing (3) Prereq: PETE 4059, 4060, and 4086. Mud and surface drilling data acquisition and processing; downhole data acquisition with drilling stopped and while drilling, data processing; formation evaluation and data analysis.

7222 Downhole Production Fluid Dynamics (3) Prereq: PETE 4057 and 4085. Wireline sideway core and fluid recovery; data analysis and completion techniques; thermodynamic properties of fluids; downhole production data acquisition and interpretation; cased hole formation evaluation.

7231 Nonthermal Methods of Enhanced Oil Recovery (3) Theory and field practice related to miscible displacement processes and chemical and polymer flooding techniques.

7232 Thermal Methods of Oil Recovery (3) Theory of heat transfer and heat generation applied to the performance prediction of oil recovery by such field processes as forward and reverse in situ combustion, continuous and cyclic hot fluid injection, and production well heating.

7241, 7242 Selected Topics in Advanced Petroleum Engineering (3,3) May be repeated for credit when topic varies; a total of 12 sem. hrs. of credit may be earned in these two courses.

7256 Special Problems in Petroleum Engineering (1-6) May be repeated for a max. of 6 sem. hrs. credit. Individual study and research.

7280 Mathematical Simulation of Petroleum Reservoir Performance (3) Prereq: PETE 4056 or equivalent; and PETE 4051 and 4052. Development and application of mathematical models for predicting petroleum reservoir performance, including multiphase fluid flow in three dimensions.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.
PHILOSOPHY (PHIL)

1000 Introduction to Philosophy (3) Major works on such themes as appearance and reality, man and the world, nature of knowledge, relation of mind and body, right and good, existence of God, and freedom and determinism.

1021 Introduction to Philosophy: Elementary Logic (3) No special background presumed. Formal and informal reasoning; traditional syllogistic logic, modern deductive logic, and scientific method in the natural and social sciences.

1031 Introduction to Philosophy: Nature and Knowledge (3) Origins of natural science, its major philosophical implications, and its effects on modern civilization.

2000 Contemporary Moral Problems (3) Philosophical study of contemporary moral problems such as capital punishment, preferential treatment, sexual equality, sexual liberation, terrorism, war and nuclear arms, animal rights, world hunger, environmental ethics, and the morality of suicide.

2010 Introduction to Logical Theory (3) Primarily for students intending to take additional work in philosophy or logic. Symbolic logic; formal methods of proof, including syllogistics, truth functions, propositional calculus, and elementary predicate calculus; philosophic assumptions underlying logic; relevance of formal logic to philosophic questions.

2018 Professional Ethics (3) Special problems of obligation and valuation related to law, medicine, politics, and education, as well as business, engineering, and architecture; altruism, trust, vocation, codes of honor, professional privilege, and responsibilities for others arising from differential abilities.

2020 Ethics (3) Classical and recent theories of obligation and valuation, including works of Aristotle, Kant, Mill, and Nietzsche; freedom, rights, dignity, and resources for moral judgment.

2023 Philosophy of Art (3) Major aesthetic theories.

2024 Philosophy in Literature (3) Philosophical themes implicit in the writings of eminent novelists, dramatists, and poets.

2025 Bioethics (3) Defining health and disease; deciding on rights, duties, and obligations in the patient-physician relationship; abortion and the concept of a person; defining and determining death; euthanasia and the dignity of death; allocation of medical resources, both large-scale and small-scale; experimentation with fetuses, children, prisoners, and animals; genetic testing, screening, and interference.

2028 Philosophy of Religion (3) Same as REL 2028. Essence and meaning of religion as a pervasive phenomenon in human societies; faith and reason, nature of divinity, arguments for and against God’s existence, religious knowledge and experience, morality and cult, the problem of evil.

2033 History of Ancient and Medieval Philosophy (3) An honors course, PHIL 2034, is also available. Introduction to philosophy through a study of some of the main writings of classical and medieval philosophy.

2034 HONORS: Tutorial in Ancient and Medieval Philosophy (1) To be taken concurrently with PHIL 2033. 1 hr. of tutorial instruction per week for honors students.

2035 History of Modern Philosophy (3) An honors course, PHIL 2036, is also available. Introduction to philosophy through a study of some of the main writings of modern philosophy.

2036 HONORS: Tutorial in Modern Philosophy (1) To be taken concurrently with PHIL 2035. 1 hr. of tutorial instruction per week for honors students.

2953 HONORS: Philosophical Colloquium (3) Prereq: a grade of "B" or higher in at least one other philosophy course; or consent of instructor. Subject drawn from prominent philosophical works.

2963, 2964, 2965 HONORS: Independent Work for Honors Students (1,1,1) Prereq: sophomore standing, completion of at least 3 hrs. of philosophy with a grade of "B" or higher, and a gpa of at least 3.00 in all work taken. Readings, conferences, and reports under faculty direction.

3001 Existentialism (3) Basic themes of existentialist philosophy; the works of Kierkegaard, Nietzsche, Jaspers, Heidegger, Camus, Marcel, and Sartre.

3002 Philosophy and Film (3) Films as philosophical texts.

3020 Special Topics in Philosophy (1-3) May be taken twice for credit when topics vary.

3090 Friedrich Nietzsche (3) See GERM 3090.

3901 HONORS: Directed Readings in Philosophy (3) Prereq: PHIL 2033 and 2035; or equivalent.

3902 HONORS: Examination Tutorial (1) Comprehensive examination of the field of philosophy offered by the department. To be taken during the junior or senior year. Examination is prepared for by means of a structured and supervised tutorial based on reading lists given students entering the departmental honors program.

4010 Logic (3) Prereq: PHIL 2010 or equivalent. Modern symbolic logic, with emphasis on formal axiomatic method and metatheory of formal calculi.

4011 Advanced Logic (3) Prereq: PHIL 4010 or equivalent. Advanced metatheory and the axiomatic foundations and applications of intensional logics.

4013 Philosophy of Biology (3) Prereq: one course in biology or equivalent. History of biology as it illustrates philosophical issues; structure of evolutionary theory; nature of biological laws and theories; issues relating to teleology and reductionism; status of the science of taxonomy; sociobiology and ethics and the study of culture.

4914 Philosophy of Language (3) Prereq: one logic course or consent of instructor. Various theories of meaning, their implications and presuppositions, and their relevance to issues in such areas as theory of perception, theory of truth, metaphysics, ethics, philosophy of mind and action.

4920 Early Greek Philosophy (3) Prereq: PHIL 2033 or equivalent. Early Greek philosophy from Thales through the Sophists, Socrates, and the early "Socratic" dialogues of Plato; emphasis on Anaximander, Heraclitus, Parmenides, and Socrates.

4922 Plato (3) Prereq: PHIL 2033 or equivalent.

4924 Aristotle (3) Prereq: PHIL 2033 or equivalent. Topics from Aristotle’s Metaphysics, Physics, De Anima, and the logical treatises.

4928 Augustine, Anselm and Aquinas (3) Also offered as REL 4928. Study of three major figures in medieval philosophy; emphasis on the development of the patristic, monastic and scholastic traditions.

4931 Descartes, Spinoza, and Leibniz (3) Prereq: 6 hrs. of philosophy or consent of instructor. 17th-century rationalism, with emphasis on epistemology and metaphysics.
4933 Locke, Berkeley, Hume (3) Language, epistemology, ontology, self, God, causation, realism, and idealism in the writings of these British empiricists.

4936 19th-Century Philosophy (3) Prereq: PHIL 2033 and 2035; or equivalent. 19th-century philosophy, with emphasis on German thought; readings in Fichte, Hegel, Marx, Nietzsche, Bergson, and others.

4938 Philosophical Thought in America (3) Late 19th and early 20th centuries; topics from such philosophers as Peirce, James, Royce, Dewey, Santayana, Ward, and Mead.

4940 Aesthetics (3) Meaning and truth in the arts; artistic intention; critical canons.

4941 Philosophy of Mind (3) Prereq: PHIL 2033 and 2035; or equivalent. Recent philosophical treatments of human nature: the mind-body problem, identity of the person in time, the person as rational and volitional, and relation of the person to the world.

4943 Problems in Ethical Theory (3) Prereq: two courses in philosophy or consent of instructor. Recent developments in ethics, including material from analytic and existential-phenomenological traditions.

4944 Philosophical Theology (3) Prereq: two courses in philosophy or consent of instructor. Same as REL 4944.

4945 Political Philosophy (3) Prereq: PHIL 1000 or 2020 or equivalent. Freedom, obligation, authority, justice, law, the state, and revolution.

4946 Philosophy of Law (3) Moral issues in foundations of law and legal authority; nature of law; civil disobedience; principles of punishment; legal liability; morals legislation; "Good Samaritan" laws; moral basis of contract law.

4948 Phenomenology (3) Prereq: PHIL 2035 or 4936 or equivalent. Contemporary phenomenology; reading in Husserl.

4951 Philosophy of Science (3) Prereq: consent of instructor. Philosophical issues related to concept formation and theory construction in the natural, behavioral, and social sciences.

4953 Contemporary Analytic Philosophy (3) Prereq: one logic course and either PHIL 2035 or 4933. Topics from leading philosophers in such contemporary movements as logical empiricism, formalism, and ordinary language analysis, including Moore, Russell, Wittgenstein, Carnap, Goodman, Ryle, Strawson, and Quine.

4954 Recent Speculative Philosophy (3) Prereq: two other philosophy courses or consent of instructor. Theories of being and knowing in recent absolute idealism, process philosophy, and phenomenological existentialism.

7901 Seminar in Contemporary Analytic Philosophy (3) Philosophy of language, metaphysics, realism, anti-realism, and philosophy of logic and mathematics.

7903 Seminar in Continental Philosophy (3) Major figures and/or movements in continental philosophy.

7905 Seminar in History of Philosophy (3) May be taken 3 times for credit when topics vary. Study of a major philosopher or school of philosophy.

7910, 7911 Seminar (3,3) Prereq: consent of department.

7991 Independent Study (3)

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

PHYSICAL SCIENCE (PHSC)

1001 Physical Science (3) Prereq: MATH 1021. Credit will not be given for both this course and any other college-level physics course. First half of a two-semester survey course in the physical sciences; topics in the first semester are taken primarily from the field of physics.

1002 Physical Science (3) Prereq: PHSC 1001. Credit will not be given for both this course and any other college-level astronomy course. Second half of a two-semester survey course in the physical sciences; topics in the second semester are taken primarily from the fields of astronomy, chemistry, and geology.

PHYSICS (PHYS)

Prerequisites: All prerequisites in physics courses should be rigidly observed.

Corequisites: A student may not continue in a course after dropping a corequisite course prior to the last day of the midsemester examination period.

Physics 7223, 7235, 7236, 7260, 7281, 7282, 7343, 7363, 7364, 7373, 7374, 7745, 7753, 7783, 7893, 7895, 7896 are rotation so as to offer a varied curriculum in the fall or spring semesters.

1201, 1202 General Physics for Physics Majors (4,4) F, S Prereq. for 1201: credit or registration in MATH 1550. Prereq. for 1202: PHYS 1201 and credit or registration in MATH 1552. 4 hrs. lecture/demonstration. Primarily for students intending to major in physics. Credit will not be given for these courses and PHYS 2001, 2002 or 2101, 2102. Fundamentals of classical physics and some concepts of modern physics; calculus and vector analysis introduced and used in development of subject matter.

1208, 1209 General Physics Laboratory for Physics Majors (1,1) F, S Prereq. for 1208: credit or registration in PHYS 1201. Prereq. for 1209: credit or registration in PHYS 1202. 3 hrs. lab. Credit will not be given for these courses and PHYS 2009 or 2108, 2109. Labs to accompany PHYS 1201, 1202.

2001, 2002 General Physics (3,3) Prereq. for PHYS 2001: MATH 1022 or 1023; Prereq. for PHYS 2002: PHYS 2001. 3 hrs. lecture/demonstration. Credit will not be given for these courses and PHYS 1201, 1202 or 2101, 2102. Mechanics, heat, sound, light, electricity, and magnetism; topics in modern physics.

2009 General Physics Laboratory (1) Prereq: PHYS 2108 and credit or registration in PHYS 2002. 3 hrs. lab. Credit will not be given for this course and PHYS 1209 or 2109. Lab to accompany PHYS 2002.

2101, 2102 General Physics for Technical Students (3,3) Prereq. for 2101: credit or registration in MATH 1552. Prereq. for 2102: PHYS 2101 and credit in MATH 1552. 3 hrs. lecture/demonstration. For mathematics, chemistry, or engineering majors. Credit will not be given for these courses.

4108 Introductory Physics Laboratory (1) Prereq: credit or registration in PHYS 2001 or 2101. 3 hrs. lab. Credit will not be given for this course and PHYS 1208. Lab to accompany PHYS 2001 or 2101.

4109 Laboratory Work in Technical Physics (1) Prereq: PHYS 2108 and credit or registration in PHYS 2102. 3 hrs. lab. Credit will not be given for this course and PHYS 1209 or 2009. Lab to accompany PHYS 2102.

4111 Elementary Mathematical Physics (3) F Prereq: PHYS 1202 or 2102. Mathematical methods of physics; application to selected problems in physics.

4109 Introductory Modern Physics for Physics Majors (4) F Prereq: PHYS 1202 and 1209. 3 hrs. lecture/demonstration; 2 hrs. lab. Primarily for students planning to major in physics. Elementary modern physics.

2221 Mechanics of Particles and Rigid Bodies (3) S Prereq: PHYS 2111 and credit or registration in MATH 2065; or CHEM 4581 and credit or registration in MATH 2065; or MATH 4037. Single particle dynamics, the harmonic oscillator, Lagrangian mechanics, central force motion, the inertia tensor, and rigid body dynamics.

2221 Electricity and Magnetism (3) S Prereq: PHYS 2111 and credit or registration in MATH 2065; or CHEM 4581 and credit or registration in MATH 2065; or MATH 4037. Electricity and magnetism; static and quasistatic electromagnetic fields in vacua and in dielectric and magnetic media.

2401 Introduction to Concepts in Physics (3) V Prereq: MATH 1021 or an ACT math score of at least 25. Primarily for students in liberal arts and education. Historical evolution and underlying philosophy of principles of physics; provides appreciation of physics; does not develop technical skill.

2995 Research Internship (1) Prereq: consent of instructor and chairman of department. May be repeated for credit. Individual reading and theoretical and/or experimental research on introductory problems in physics.

4055 Atomic and Nuclear Physics for Engineers (3) V Prereq: PHYS 1202 or 2102, and MATH 2065. Atomic and nuclear physics; emphasis on atomic and nuclear structure, nuclear radiation and energy, and applications.

4098 Instrumentation Electronics for Scientists (3) S Prereq: PHYS 1202 and 1209; or PHYS 2102 and 2109. 2 hrs. lecture; 3 hrs. lab. Basic electronic technology and circuits used in scientific instrumentation; circuit analysis, discrete components, operational amplifiers, and digital electronics.

4112 Intermediate Mathematical Physics (3) V Prereq: PHYS 2111 or CHEM 4581; and credit or registration in MATH 2065. Mathematical methods of physics, with application to selected problems in physics.

4112 Mechanics of Periodic and Cyclic Motions (3) V Prereq: PHYS 2221. Continuation of PHYS 2221; emphasis on oscillatory systems.

4125, 4126 Thermodynamics and Statistical Mechanics (3,3) V Prereq: PHYS 2111 and credit or registration in MATH 2065; or CHEM 4581 and credit or registration in MATH 2065; or MATH 4037. PHYS 4125 is prerequisite for 4126. Basic physical concepts and methods appropriate for description of systems involving many particles; unified viewpoint of thermodynamics, statistical mechanics, and kinetic theory.

4132 Electromagnetism and Electromagnetic Waves (3) F Prereq: PHYS 2231. Continuation of PHYS 2231; emphasis on electromagnetic waves and radiation.

4135 Principles of Optics (3) V Prereq: PHYS 2111 and credit or registration in MATH 2065; or CHEM 4581 and credit or registration in MATH 2065; or MATH 4037. Fundamental principles of physical optics and optical instruments.

4141, 4142 Introduction to Quantum Mechanics (3,3) F,S Prereq: PHYS 2111 and credit or registration in MATH 2065; or CHEM 4581 and credit or registration in MATH 2065; or MATH 4037. PHYS 4141 is prerequisite for 4142. Elementary principles of quantum mechanics.

4198 Advanced Modern Physics Laboratory (3) S Prereq: PHYS 2209 or 4055 or 4141. 1 hr. lecture; 6 hrs. lab/computations. Electricity and magnetism, optics, and atomic, nuclear, and solid state physics.


4251 Atomic Physics (3) V Prereq: PHYS 2221 and 4142 and credit or registration in 4132. Modern theory of atomic structure, radiations, and processes.

4261 Introduction to Solid-State Physics (3) V Prereq: PHYS 2209 or 4055 or 4141. Properties of the crystalline state and the free-electron; band theories of metals, insulators, and semiconductors.

4271 Nuclear Physics (3) V Prereq: PHYS 2209 or 4055 or 4141. Nuclear properties, abundance and stability of nuclei, nuclear instrumentation, particle accelerators and detectors, and nuclear reactions.

4399 Research in Experimental Physics (3) F Prereq: PHYS 4198 or consent of instructor and department chairman. Individual research project conducted and reported under supervision of individually selected advisor.

4991 Special Problems in Physics (1-3) Prereq: a thorough knowledge of the fundamentals of physics and mathematics, a demonstrated ability in science, and consent of instructor and department chairman. May be repeated for a max. of 6 sem. hrs. credit. Individual reading and theoretical and/or experimental work on advanced problems in physics.

6111 Mathematical Physics for Teachers (3) Su only-V Prereq: PHYS 2002 or 2102. Not for degree credit for physics majors. Mathematical structure of physics.

6121 Classical Physics for Teachers (3) Su only-V Prereq: PHYS 2002 or 2102. For high school and junior college teachers; part of the M.N.S. degree program. Application of conservation principles to development of classical physics.

6141 Quantum Physics of Atoms, Molecules, Solids, and Nuclei for Teachers (3) Su only-V Prereq: PHYS 2002 or 2102. For high school and junior college teachers; part of the M.N.S. degree program. Origins of quantum theory; application to atoms, molecules, solids, and nuclei.

6191 Research Participation for Teachers (3) Su only-V Prereq: PHYS 2002 or 2102. May be taken 3 times for credit.

6198 Laboratory Methods for Teachers (3) Su only-V Prereq: PHYS 2002 or 2102. 1 hr. lecture; 6 hrs. lab. For high school and junior college teachers; part of the M.N.S. degree program. May be taken 3 times for credit. Analysis of laboratory experiments in current high school physics curricula; selected experiments in modern physics.

6991 Seminar in Current Developments in Physics Curriculum Materials (1-3) Su only-V Prereq: PHYS 2002 or
PLANT HEALTH (PLHL)

3060 Introductory Plant Physiology (4) F Prereq: BOTY 1001, 1002; and either CHEM 2060 or 2261. 3 hrs. lecture; 3 hrs. lab. Also offered as BOTY 3060. Life processes of plants.

3900 Undergraduate Research in Plant Pathology (1-3) V Prereq: PLHL 4000 or equivalent and consent of instructor. May not be repeated for credit. Research experience for students contemplating graduate study in plant pathology.

3960 Undergraduate Research in Crop Physiology and Weed Science (1-3) V Prereq: PLHL 3060 or equivalent and consent of instructor. May be repeated for credit for a max. of 6 sem. hrs. Research experience for students contemplating graduate study in crop physiology or weed science.

4000 General Plant Pathology (3) S Prereq: BOTY 1001 and 1002; or equivalent. 2 hrs. lecture; 3 hrs. lab. Nature and cause of disease in plants; relation of environment and host-parasite interactions to development of disease symptoms caused by plant pathogenic fungi, bacteria, viruses, mycoplasmas, and nematodes; abiotic causes of disease; methods of disease control; diseases affecting Louisiana crops and ornamentals.

4001 Plant Disease Management and Control (3) F Prereq: PLHL 4000 and either CHEM 2060 or 2261. 2 hrs. lecture; 2 hrs. demonstration/lab. Plant disease management and control using cultural practices, disease resistance, biological control, legislation, therapy, pesticides; identity, properties, chemistry, mode of action, toxicity, and application of fungicides, bactericides, and nematicides; evaluation of chemicals for plant disease control.

4011 Forest Pathology (3) F 2 hrs. lecture; 2 hrs. lab. Major forest-plant diseases and biological deterioration of forest products; nature, etiology, diagnosis, epiphytology, and control measures.

4012 Diseases of Horticultural Crops (3) F-O Prereq: PLHL 4000. 2 hrs. lecture; 3 hrs. lab. Diseases affecting the major horticultural crops; their identification, economic importance, and control.

4013 Diseases of Agronomic Crops (3) S-E Prereq: PLHL 4000. 2 hrs. lecture; 3 hrs. lab. Diseases affecting the major agronomic crops; their identification, economic importance, and control.

4054 Introductory Mycology (4) 3 hrs. lecture; 3 hrs. lab. Same as BOTY 4054. Field service fee.
PHYS 4271. Experiments in high energy particle physics and cosmic rays; theory of electromagnetic interactions, experimental methods, interactions of high energy particles, galactic fields, and solar and galactic cosmic rays.

7282 Cosmic Rays and Meson Physics (3) V

7343 Advanced Quantum Mechanics (3) V Prereq: PHYS 7242. The Lorentz group, relativistic wave equations, introduction to quantum field theory.

7363, 7364 Theory of Solids (3,3) V Prereq: PHYS 7242. PHYS 7363 is prerequisite for 7364. Application of quantum mechanics to solids; lattice vibrations, crystal field theory, energy bands, transport properties, ferromagnetism, and superconductivity.

7373, 7374 Nuclear Physics (3,3) V Prereq: PHYS 4271 and 7241. PHYS 7373 is prerequisite for 7374. Applications of quantum mechanics to the two-nucleon system, to a system of many nucleons, and to nuclear reactions, with comparisons between theory and experimental results.

7745 Advanced Quantum Theory of Particles and Fields (3) V May be taken 3 times for credit.

7753 Atomic Scattering (3) V May be taken twice for credit.

7783 Topics in Astrophysics (3) V May be taken twice for credit.

7857 Seminar in Scattering Theory (1) Pass-fail grading. May be repeated for credit.

7867 Seminar in Experimental Solid State Physics (1) Pass-fail grading. May be repeated for credit.


7895 Selected Topics in Advanced Physics (3) V May be repeated for credit. Pass-fail grading.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

PLANT HEALTH (PLHL)

3060 Introductory Plant Physiology (4) F Prereq: BOTY 1001, 1002; and either CHEM 2060 or 2261. 3 hrs. lecture; 3 hrs. lab. Also offered as BOTY 3060. Life processes of plants.

3900 Undergraduate Research in Plant Pathology (1-3) V Prereq: PLHL 4000 or equivalent and consent of instructor. May not be repeated for credit. Research experience for students contemplating graduate study in plant pathology.

3960 Undergraduate Research in Crop Physiology and Weed Science (1-3) V Prereq: PLHL 3060 or equivalent and consent of instructor. May be repeated for credit for a max. of 6 sem. hrs. Research experience for students contemplating graduate study in crop physiology or weed science.

4000 General Plant Pathology (3) S Prereq: BOTY 1001 and 1002; or equivalent. 2 hrs. lecture; 3 hrs. lab. Nature and cause of disease in plants; relation of environment and host-parasite interactions to development of disease symptoms caused by plant pathogenic fungi, bacteria, viruses, mycoplasmas, and nematodes; abiotic causes of disease; methods of disease control; diseases affecting Louisiana crops and ornamentals.

4001 Plant Disease Management and Control (3) F Prereq: PLHL 4000 and either CHEM 2060 or 2261. 2 hrs. lecture; 2 hrs. demonstration/lab. Plant disease management and control using cultural practices, disease resistance, biological control, legislation, therapy, pesticides; identity, properties, chemistry, mode of action, toxicity, and application of fungicides, bactericides, and nematicides; evaluation of chemicals for plant disease control.

4011 Forest Pathology (3) F 2 hrs. lecture; 2 hrs. lab. Major forest-plant diseases and biological deterioration of forest products; nature, etiology, diagnosis, epiphytology, and control measures.

4012 Diseases of Horticultural Crops (3) F-O Prereq: PLHL 4000. 2 hrs. lecture; 3 hrs. lab. Diseases affecting the major horticultural crops; their identification, economic importance, and control.

4013 Diseases of Agronomic Crops (3) S-E Prereq: PLHL 4000. 2 hrs. lecture; 3 hrs. lab. Diseases affecting the major agronomic crops; their identification, economic importance, and control.

4054 Introductory Mycology (4) 3 hrs. lecture; 3 hrs. lab. Same as BOTY 4054. Field service fee.
4070 Principles of Weed Control (4) F Prereq: PLHL 3060 or equivalent. 3 hrs. lecture; 3 hrs. lab. Weed control in agricultural crops; weed ecology, mechanisms of herbicidal action and selectivity; characteristics of important herbicides.

7000 Phytoneumatology (4) S Prereq: PLHL 4000. 2 hrs. lecture; 4 hrs. lab. Taxonomy, identification, and control of plant parasitic nematodes.

7002 Methods in Plant Pathology (3) S-O Prereq: PLHL 4000 or equivalent. 1 hr. lecture; 4 hrs. lab. Techniques and instrumentation used in research on diseases caused by fungi, bacteria, and viruses.

7003 Disease Diagnosis and Control Practices (3) Su-O Prereq: consent of instructor. 3 hrs. lecture; 6 hrs. lab. Primarily for Ph.D. students majoring orminorring in plant pathology or M.S. students majoring in plant pathology. Diagnosis and control of plant diseases utilizing specimens submitted to the LSU Plant Disease Clinic.

7010 Plant Molecular Biology (3) F Prereq: BOTY 3060, BCH 4093 and 4094, or equivalent. Also offered as BCH 7010 and BOTY 7010. Molecular biology, biochemistry and genetics of higher plants and plant-associated microorganisms; genome organization and structure in nuclei, chloroplasts, and mitochondria; structure and expression of plant genes under control of developmental and environmental signals; plant interactions with pathogenic and symbiotic microorganisms.

7020 Ecology and Control of Plant Nematodes (3) F-O Prereq: PLHL 4000 and 4020; or equivalent. 2 hrs. lecture; 2 hrs. lab. Ecology and economic control of plant nematodes attacking crop plants of greatest importance; practical control measures in Louisiana crop, garden, and turf plants.

7032 Advanced Mycology: Ascomycetes and Deuteromycetes (4) S-O Prereq: PLHL 4054 or equivalent. 3 hrs. lecture; 3 hrs. lab. Also offered as BOTY 7032. Taxonomy, biology and ecology of ascomycetes and deuteromycetes; collection, isolation, and identification of fungi.

7040 Plant Virology (4) F-E Prereq: PLHL 4000 and PLHL 7063; or equivalent. 2 hrs. lecture; 4 hrs. lab. Viruses as causal agents of plant diseases; biological, chemical, and physiological properties of plant viruses; methods of transmission; host-virus and vector-virus relationship.

7051 Advanced Topics in Plant Pathology (1-4) V Prereq: consent of instructor. May be repeated for a max. of 8 sem. hrs. credit.

7052 Seminar (1) S May be taken 3 times for credit for each graduate degree. Topics announced prior to registration.

7056 Advanced Mycology: Lower Fungi (4) Prereq: BOTY 4054 or equivalent. 3 hrs. lecture; 3 hrs. lab. Same as BOTY 7056.

7061 Plant Growth and Development (3) F Prereq: BOTY 3060 or PLHL 3060 and BCH 4083; or equivalent. Also of- fered as BOTY 7061. Effects of naturally occurring growth substances and environmental conditions on plant growth.

7063 Plant Metabolism (3) S Prereq: PLHL 3060 and BCH 4083; or equivalent. Also offered as BOTY 7063. Major metabolic systems of plants and their control.

7065 Transport Processes in Plants (3) S Prereq: BOTY 3060. Same as BOTY 7065.

7067 Selected Topics in Plant Physiology (2) F Prereq: consent of instructor. May be repeated for credit. Same as BOTY 7067. Mineral nutrition, metabolism, growth and development, and herbicides.

7068 Current Literature in Plant Physiology (1) F,S May be taken twice for credit in a master's program and twice in a doctoral program. Also offered as BOTY 7068. Critical analysis of recent and classical papers in the field.

7069 Plant Breeding for Disease Resistance (3) Su-O Prereq: AGRO 7063, AGRO 7065 and PLHL 4000 or equivalent. See AGRO 7069 and HORT 7069.

7070 Field Research Techniques in Weed Science (3) S-E Prereq: PLHL 4070 and EXST 7004; or equivalent. Specific techniques used to conduct field research programs in weed science; includes methods of quantifying vegetative characteristics, sampling techniques, research planning and management, and calibration and utilization of herbicide application equipment.

7071 Plant-Herbicide Interactions (3) F-O Prereq: PLHL 4070 or equivalent. Physiological and physical interactions of herbicides with plants; emphasis on the specific mode of action, entry, movement, metabolism, and selectivity mechanisms of each chemical family of herbicides.

7072 Soil-Pesticide Interactions (3) F-E Prereq: AGRO 2051 and PLHL 4070. Chemical, physical, and biological properties of soils as they affect performance and dissipation of pesticides; fate of pesticides in the environment.

7073 Weed Science Seminar (1) V May be taken 3 times for credit. Topics announced prior to registration.

7080 Host-Parasite Interaction and Disease Resistance (3) S-O Prereq: PLHL 4000 and PLHL 7063; or equivalent. 2 hrs. lecture; 2 hrs. lab. Genetics, physiology, and biochemistry of disease development and disease resistance in plants; mechanisms of pathogenicity and infectivity, tumorigenesis, metabolic consequences of infection, nature of disease resistance, and parasitism.

8000 Thesis Research (1-12 per sem.) ’S’/’U’ grading.

8900 Special Research Problems (1-5) Prereq: consent of instructor. May be repeated for a max. of 9 sem. hrs. credit. Faculty supervised, independent research other than thesis or dissertation.

9000 Dissertation Research (1-12 per sem.) ’S’/’U’ grading.

POLITICAL SCIENCE (POLI)

1001 Fundamental Issues of Politics (3) F,S,Su Central questions at issue in politics; their significance.

1050 Campaigns and Elections (3) V Role of campaigns and elections, using current elections as case studies; campaign strategies, finances, and media techniques; voter participation and characteristics.


2051 American Government (3) F,S,Su Required of all undergraduate majors. An honors course, POLI 2052, is also available. Principles, structures, processes, and functions; emphasis on national government.

2052 HONORS: American Government (3) V Same as POLI 2051, with special honors emphasis for qualified students.

2053 Contemporary Political Systems (3) F,S,Su Government and politics in democratic, communist, and developing systems (Britain, France, the Soviet Union, China, Latin
2856 Government of Louisiana (3) F,S,Su Prereq: POLI 2051 or equivalent. State and local government and politics in Louisiana.

2857 Introduction to International Politics (3) F,S Basic principles, problems, and concepts of international politics; evolution and nature of the nation-state; concepts of sovereignty, power, and national interest; patterns of conflict and cooperation; foreign policies of the major powers.

2860 Introduction to Political Theory (3) F,S Basic concepts of analysis of normative and empirical political thought.

2970 Public Policy Making: An Introduction (3) S Sequential process of policy making from problem identification through policy formulation, adoption, implementation, and evaluation of impact; application to such areas as civil rights, welfare, urban affairs, taxation, and government spending.

3000 HONORS: Thesis (3) Culmination of political science honors program; details available from department.

3060 Politics of the Future (3) F,S Probable political orders of the future: effects of resource availability, scientific and technological advancement, and changing human values; goals of developed and underdeveloped countries; political freedom versus economic security.

3089 HONORS: Seminar (3) Students not enrolled in the honors program may be admitted with consent of the instructor. Subject matter and instructor vary. Details available from the department during registration.

3096, 3897 HONORS: Readings Course (1-3,1-3) Same as POLI 4906, 4997, with special honors emphasis for qualified students.

3901 Undergraduate Internship in Political Science (1-6) F,S Open to undergraduate students nominated by the Department of Political Science. May be counted toward the total number of hours required for a major in political science but not toward fulfilling field requirements. Program of study, research, and work in governmental or private agencies concerned with public policy.

3909 Contemporary Political Issues (3) V For undergraduate political science or other social sciences majors having a 2.70 overall average; also open to well-qualified students in other fields, by consent of department. May be repeated for credit when topics vary. Course content depends on interests of instructor and class.

4010 Principles and Practices of Public Administration (3) F Prereq: POLI 2051. Organization and administrative processes of public bureaucracies; political role of agencies which make and carry out public policies; characteristics of bureaucratic policy making.

4011 Bureaucracy, Politics, and Public Policy (3) S Prereq: POLI 2051 or 4010. Interrelationships between bureaucracy and politics in formulation and execution of public policy; forces and forms affecting these relationships.

4012 Public Personnel Administration (3) V Prereq: POLI 2051. Development, administration, and politics of the U.S. civil service; the merit system; collective bargaining in the public sector and constitutional rights of public employees; comparisons with European civil services.

4013 Ethics and Public Policy (3) V Ethical questions confronting the formulation of public policy; perspectives of the practitioner and the citizen; political corruption and citizen control and compliance; ethics of current policy in areas such as civil rights, health care, education, energy, and national defense.

4014 Budgetary Process and Policy Making (3) Prereq: POLI 2051 or equivalent. Budgeting by public agencies; impact of political actors, institutions and processes on budgetary policies at the national, state, and local levels of government.


4016 Local Government (3) V Prereq: POLI 2051 or equivalent. Form, structure, function, and problems of county, municipal, and district governments in the U.S.

4018 Urban Politics and Policy Making (3) F Prereq: POLI 2051 or equivalent. Political problems in urban governance: the political environment of American cities, private sources of power, political machines and reform, crime and violence, service delivery, metropolitan fragmentation, and the consequences of growth and decay; public policy approaches to complex urban problems.

4019 Intergovernmental Relations and Policy Making (3) V Relationships among national, state, and local governments; grants-in-aid, revenue sharing, governmental lobbying, intergovernmental cooperation and competition; evolution of constitutional federalism; expanding role of national government.

4020 American Constitutional Law (3) F Prereq: POLI 2051 or equivalent. Law of the Constitution and place of the Supreme Court in the American political system; separation of powers, judicial review, federalism, and federal powers.

4021 The American Constitution and Civil Liberties (3) S Prereq: POLI 2051 or equivalent. Political relevance of major federal constitutional limitations; property rights; First Amendment freedoms; rights of criminal defendants and ethnic minorities.

4022 Jurisprudence (3) S Prereq: POLI 2051 or equivalent. Legal philosophies of natural law, positivism, idealism, sociological jurisprudence, and legal realism; relationships of law, morals, and political order.

4023 Judicial Politics (3) F Prereq: POLI 2051. Political role of U.S. state and federal courts; organization, staffing, financing; judicial policy making; public perception of the judicial process.

4030 Political Attitudes and Public Opinion (3) Beliefs and attitudes among the mass public; emphasis on attitude formation and change.

4031 Political Parties in the United States (3) F Structure and function of political parties at local, state, and national levels; voting studies of presidential elections.

4032 Pressure Groups and Public Policy (3) V Interest group politics; effect of voluntary organizations on political behavior.

4033 Religion in Politics (3) V Analysis of religion as a political force; religion as a shaper of political culture, a force for stability and change, and a determinant of political behavior and public policy.

4034 Political Participation (3) Voting behavior, conventional participation, and political protest and violence; political behavior and public policy.

4035 The Legislative Process (3) F Prereq: POLI 2051 or equivalent. Legislative politics; emphasis on the U.S. Congress; effect of party, constituency, and legislative institutions
on legislative behavior and public policy; role of Congress in the American political system.

4036 The American Presidency (3) V Prereq: POLI 2051 or equivalent. The presidency in the American political system; emphasis on process of presidential selection, evolving role of the president, politics of the executive apparatus of the presidency, and presidential interaction with other political institutions and actors.

4037 Political Decision Making (3) V Decision making processes at the subnational, national, and international levels; study and evaluation of decisions; role of situation and context.

4038 Blacks and the American Political System (3) Prereq: POLI 2051. Interaction of blacks with the American political system since World War II; political resources available to blacks; responses of national institutions and leaders to black aspirations.

4041 International Law (3) V Prereq: POLI 2057 or equivalent. Development of international law; law of peace, war, and neutrality; treaty law; recognition, war crimes, law enforcement, state responsibility, and diplomatic immunities under the United Nations.


4043 American Foreign Policy (3) F "National interest" as guiding consideration in development of American foreign policy from the beginning to the present; importance of the constitutional framework; presidential and congressional leadership; pressure groups and public opinion; changing world environment and American response.

4044 The Contemporary International System (3) V Prereq: POLI 2057 or equivalent. Developments and trends in the international system since World War II; classical and modern versions of the balance of power; bipolarity, multipolarity, and other elements of systems theory; concept of deterrence and game theory; decision making theory; integration theory; conflict and conflict-resolution theory.

4045 American National Security (3) F Prereq: POLI 2057 or equivalent. National security and its role in implementation of American foreign policy; issues such as evolution of U.S. strategic doctrine, national security establishment, NATO, counter-insurgency strategies, and nonmilitary components of security; crisis simulation exercise.

4046 Politics of International Economic Relations (3) Prereq: POLI 2057 or equivalent. Theories of international interdependence, dependence, and integration; politics of decision making on protectionism and international finance; role of multinational corporations in world political economy; North-South debate; economic issues and national security.

4064 Comparative Politics of Developing Areas (3) V Problems of development confronted by contemporary states and societies of the Third World; emphasis on role of ethnic pluralism, political parties, bureaucracies, and the military.

4065 Latin American Governments and Politics (3) F Governmental and political processes of Latin America; their contributions to modern government.

4066 Inter-American Relations (3) S United States-Latin American relations; political, economic, and cultural relations among the Latin American states.

4067 The Politics of Asia (3) F Governments and politics of modern Asia, with a focus on China; contemporary nationalism, political development, revolution, and impact of communism, democracy, and capitalism on Asian states.

4068 Democratic Political Systems of Northern Europe (3) Comparative analysis of the structures, functions, culture, socialization, and policies of northern European political systems: Great Britain, West Germany, the Scandinavian, and Benelux countries.

4069 Democratic Political Systems of Southern Europe (3) Comparative analysis of the structures, functions, culture, socialization, and policies of southern European political systems: France, Italy, Spain, Portugal.

4070 Soviet Government and Politics (3) F Contemporary Soviet political institutions and policies; role of the communist party in policy making; influence of internal forces, such as culture and ideology; political, economic, and social problems and policies.

4071 Soviet Foreign Policy (3) S Foreign policy of the Soviet Union in terms of communist ideology, traditional Russian national interest, and Russia's interests as a world power.

4072 Government and Politics of East Central Europe (3) V Political systems of East Europe under Communist regimes; comparison of their common problems and methods; role of these party-states within the Communist system.

4073 Contemporary Communist Movements (3) V Ideologies and operations of major socialist and communist movements; variation from traditional Marxist themes and the established Soviet model; emphasis on left-wing movements of the non-Western world; polycentrism, Maoism, Castroism, African Socialism, and national-liberation movements.

4077 The Middle East (3) S Governments and politics; modern Arab nationalism, major political trends since independence; Arab-Israeli dispute, intra-Arab relations, and role of the region in global affairs.

4080 American Political Thought (3) V Development of the American liberal-democratic tradition, and dissent to that tradition.

4081 History of Political Theory from Plato to Aquinas (3) F Prereq: POLI 2051 or equivalent. Ancient and medieval political thought.

4082 History of Political Theory from Machiavelli to Burke (3) S Prereq: POLI 2051 or equivalent. Early modern European political thought.

4095 Contemporary Political Theory (3) F Political thought of the 19th century; liberalism, idealism, socialism, anarchism, and Marxism.

4096 Contemporary Political Theory (3) S Political thought of the 20th century; liberalism, modern totalitarianism, conservatism, Freudianism, existentialism, and democracy.

4100 Criminal and Related Law (3) See CJ 4100.

4996, 4997 Readings Course (1-3,1-3) Prereq: consent of department. Honors courses, POLI 3896 and 3897, are also available. For junior, senior, and graduate students in the social sciences with a 3.00 average. Individual reading in a specified field of government.

7010 Decision Models for Public Administration (3) See QBA 7010.

7900 Seminar in American Politics (3) V May be taken twice for credit if content varies.

7901 Graduate Internship in Political Science (1-6) F,S Open only to graduate students nominated by the Department of Political Science and accepted by a recognized internship program. May be counted toward total number of hours required in the M.A. program but not toward field requirements. Research and work in governmental or private agencies concerned with public policy.

7902 Seminar in Public Policy (3) Also offered as PADM 7902.
POULTRY SCIENCE (PLSC)

1849 Poultry Science and Production (3) F,S Principles and practices of commercial poultry production.

2040 Techniques of Judging and Evaluating Poultry and Poultry Products (2) F,S 4 hrs. lab. May be taken twice for credit when content varies. Principles and techniques in evaluation of poultry and poultry products.

3001 Apprenticeship in the Poultry Industry (3-6) V Prereq: junior standing with an overall GPA of 2.50 on all work taken at LSU; consent of department head and industry cooperating. May be repeated for credit a maximum of 12 sem. hrs. Pass/fail grading. Supervised work in egg processing, broiler processing, feed manufacturing, hatchery management, or flock supervision for a period of not less than two months.

3900 Poultry Research (1-3) F,S,Su Prereq: consent of department. May be repeated for credit a maximum of 6 sem. hrs. Pass/fail grading. Feeding, breeding, management, and marketing problems.

4004 Market Poultry Products (3) S 2 hrs. lecture; 2 hrs. lab. Preparation of eggs and poultry for market; methods of grading, packing, processing, and storing eggs and poultry.

4031 Incubation and Hatchery Management (2) F-O Prereq: 6 sem. hrs. of biological science or equivalent. 1 hr. lecture; 2 hrs. lab. Chick development and embryology; incubation principles and practices; hatchery equipment and design; hatchery management.

4040 Quality Assurance in the Food Industry (4) See DARY 4040.

4051 Poultry Biology (3) F 2 hrs. lecture; 2 hrs. lab. Structure, conformation, and selection of fowl; emphasis on egg formation and ovisposition; other physiological factors of economic importance.

7910 Seminar in Public Administration (3) F See PADM 7910.

7912 Seminar in Public Personnel Administration (3) See PADM 7912.

7914 Seminar in Public Budgeting (3) Also offered as PADM 7914.

7915 Seminar in State Politics and Policy Making (3)

7917 Seminar in Program Evaluation (3) Also offered as PADM 7917.

7918 Seminar in Urban Politics and Policy Making (3)

7920 Seminar in Public Law (3) V May be taken twice for credit if content varies.

7930 Seminar in Political Behavior (3)

7931 Seminar in Political Parties (3) V May be taken twice for credit if content varies.

7935 Seminar in Legislative Politics (3) V May be taken twice for credit if content varies.

7936 Seminar in Executive Politics (3)

7940 Seminar in International Politics (3) V May be taken twice for credit if content varies.

7943 Seminar in the American Foreign Policy Process (3)

7946 Seminar in the Politics of International Economic Relations (3) May be taken twice for credit if content varies.

7960 Seminar in Comparative Government (3) V May be taken twice for credit if content varies.

7961 Approaches to the Study of Politics (3) F

7962 Seminar in Research Design and Quantitative Techniques (3) S

7963 Advanced Research Methods in Social Science (3) See SOCL 7203.

7965 Seminar in Latin American Government and Politics (3) V May be taken twice for credit if content varies.

7968 Seminar in Western European Politics (3)

7973 Seminar in Communist Studies (3) V May be taken twice for credit if content varies.

7980 Seminar in American Political Thought (3) V May be taken twice for credit if content varies.

7981 Seminar in Classical and Medieval Political Theory (3)

7982 Seminar in Early Modern Political Theory (3)

7984 Seminar in Analytical and Empirical Political Theory (3)

7990 Political Theory—Interpretation and Analysis (3)

7995 Seminar in Contemporay Political Theory (3) V May be taken twice for credit if content varies.

7998, 7999 Readings Course (3,3)

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

4052 Poultry Management (3) S-E Prereq: 6 sem. hrs. of biological science or equivalent. 2 hrs. lecture; 2 hrs. lab. Growth and development of the U.S. commercial egg and broiler industries; principles of nutrition, genetics, housing, management, and marketing; types of integrated operations and contract production.

7003 Vitamins in Nutrition (2) F Prereq: credit or registration in BCH 4087. History, chemistry, function, and evaluation of nutritional status, requirements for various species, assay methods, and interrelationships of vitamins.

7008 Advanced Poultry Physiology (3) S Prereq: consent of instructor.

7016 Advanced Poultry Nutrition (3) S Prereq: DARY 4010 or equivalent. Current nutritional concepts in the scientific feeding of poultry.

7990 Advanced Laboratory Techniques in Animal Research (4) Su-E Prereq: BCH 4087 or equivalent. 2 hrs. lecture; 4 hrs. lab. Chemical and physicochemical methods and techniques; modern laboratory materials and equipment.

7991 Poultry Seminar (1) F,S May be taken 4 times for credit during period of graduate study. Graduate students in poultry science must participate in a report and discussion group on current literature in their field.

7994 Seminar in Nutrition (1) S Same as ANSC 7094, DARY 7094, FDSC 7094, EHC 7094. May be taken twice for credit.

7995 Seminar in Applied Genetics (1) F,S Prereq: consent of instructor. May be taken 3 times for credit. Special topics in advanced breeding and genetics.

7990 Advanced Poultry Research (1-5) F,S,Su Prereq: consent of department. May be repeated for a maximum of 9 sem. hrs. credit. Research in poultry nutrition, breeding, production, and market products.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.
PSYCHOLOGY (PSYC)

2000 Introduction to Psychology (3) An honors course, PSYC 2001, is also available. Understanding, prediction, and control of human behavior.

2001 HONORS: Introduction to Psychology (3) Same as PSYC 2000, with special honors emphasis for qualified students.

2004 Psychology of Adjustment (3) Adjustment mechanisms in normal adults; abnormal behavior and major personality theories.

2011 General Statistics (3) Prereq: eligibility for MATH 1021. 3 hrs. lecture/recitation. Machine computation and elementary theory relating to basic statistical techniques; normal distribution, descriptive statistics, statistical inference, product moment correlation, simple rank order correlation, t test, and simple analysis of variance.

2017 Elementary Experimental Psychology (3) Prereq: PSYC 2011 or equivalent. 2 hrs. lecture; 2 hrs. lab. Senior college standing required. Topics in general experimental psychology; sensation, perception, learning, and motivation.

2040 Social Psychology (3) Prereq: 3 sem. hrs. of psychology or sociology. Cultural forces affecting attitudes, social learning, perception, and communication of individuals and groups.

2060 Educational Psychology (3) Principles of learning, motivation, development, and evaluation as related to the educative process.

2076 Child Psychology (3) Prereq: PSYC 2000 or 2060 or equivalent. Psychological and social development of the child.

2078 Adolescent Psychology (3) Prereq: PSYC 2000 or 2060 or equivalent. Adolescent behavior considered in terms of psychological, social, and physical development.

2676 Field Experience in Developmental Psychology (1) Prereq: concurrent registration in a PSYC 2076 or 2078 section designated as a "practicum section." 2 hrs. per week. Supervised practicum experience in child or adolescent psychology in an approved community setting synthesized with material covered in the concurrent lecture course.

2999 Undergraduate Practicum in Psychology (1-3) Prereq: PSYC 2000 or 2060, and consent of instructor. May be repeated for credit for a max. of 3 sem. hrs. Student responsible for registering with a faculty member. Individually supervised experience in psychological laboratories and community agencies.

3018 Advanced Experimental Psychology (3) Prereq: PSYC 2017 or equivalent. 2 hrs. lecture; 2 hrs. lab. Supervised research in general experimental psychology; selection, design, execution, analysis, and reporting of the psychological experiment.

3020 Psychological Tests and Measurements (3) Prereq: a first course in statistics. Test construction, standardization, validation; intelligence, clerical, mechanical, spatial aptitude tests; interest and personality tests; test batteries.

3033 Evolutionary Psychology (3) Prereq: ANTH 1001 or PSYC 2000 or SOCL 2001; and one year of a biological science. Evolutionary, ecological, and genetical factors in the explanation of human behavior.

3050 Introduction to Personnel and Industrial Psychology (3) Organizational psychology, leadership, job satisfaction, motivation; human relations psychology; human engineering psychology; personnel psychology; industrial, military, and governmental selection, testing, and interviewing; consumer psychology.

3081 Personality (3) Prereq: PSYC 2000 or 2060 or equivalent. Determinants and dynamics of personality; theory and research.

3082 Introduction to Abnormal Psychology (3) Prereq: PSYC 2000 or 2060 or equivalent. Abnormal personality and behavior disorders.


3140 Advanced Social Psychology (3) Prereq: PSYC 2017 or equivalent. Current theories of socialization; existing methodologies and interdisciplinary influences.

3201 Psychological Theories of Religion (3) See REL 3201.

4008 History of Modern Psychology (3) Prereq: 9 hrs. of psychology. Historical survey of psychology, with reference to schools of psychology.

4017 Intermediate Research Methods (3) See SOCL 4211.

4030 Psychology of Thinking and Decision Making (3) Prereq: PSYC 2000 or 2060. Experimental methods and research findings on human thinking, decision making, comprehension, choice behavior, and problem solving.

4031 Sensory and Perceptual Processes (3) Prereq: PSYC 2000 and 2017; or equivalent. Theories, data, and procedures in sensation and perception.

4032 Psychology of Learning (3) Behavior from the standpoint of learning; recent experimental literature in the learning area; major theories of learning.

4033 Psychology of Memory and Forgetting (3) Major theoretical concepts; review of experimental literature in the field of memory and forgetting.

4034 Physiological Psychology (3) Prereq: PSYC 2000 or 2060; or equivalent. Functioning of the nervous system with respect to sensation, perception, learning, and motivation.

4036 Comparative Psychology (3) Behavioral development across and within species; contributions, techniques, and objectives of behavioral scientists.

4038 Emotion and Motivation (3) Prereq: PSYC 2000 or equivalent. Experimental procedures, data, and theories in emotion and motivation; physiological relationships.

4040 Research and Theory in Sexuality (3) Prereq: PSYC 2000 or 2060; HPRD 2600 or consent of instructor; and one additional course in psychology. Sexual behavior viewed from different theoretical perspectives; emphasis on empirical sexual research literature.

4050 Advanced Industrial/Organizational Psychology (3) Prereq: PSYC 2000 and 3050 or equivalent. Research, theory, and applications in industrial/organizational psychology; focus on psychological assessment of job candidates; testing; learning applied to organizational training; emotion, motivation, social processes, cognition in the job setting, and leadership.

4070 Developmental Psychology (3) Theories of development, contemporary issues, and research findings at successive ages of human development; psychological changes throughout the life span.
4072 Developmental Psychology of Adulthood and Aging (3) Prereq: PSYC 2000 or 2060. Theories, issues, and research findings on psychological changes occurring throughout adulthood and later life.

4111 Intermediate Statistics (3) Prereq: Preparation for graduate study in statistics and research design in psychology. Computation procedures and elementary theory in statistics; analysis of variance, correlation (product moment, partial, multiple, and other methods), and nonparametric statistics.

4160 Advanced Educational Psychology (3) Prereq: 6 hrs. of psychology or consent of instructor. Psychological theory and research as applied to the teaching-learning process.

4176 Advanced Child Psychology (3) Prereq: 6 hrs. of psychology or consent of instructor. Psychological theories of child development, child behavior, and research methodology.

4178 Advanced Adolescent Psychology (3) Prereq: 6 hrs. of psychology or consent of instructor. Psychological theories of adolescent behavior and problems.

4999 Independent Reading and Research in Psychology (1-6) May be repeated for a max. of 6 sem. hrs. credit. Open to seniors and graduate students. Student responsible for registering with a faculty member and selecting area of reading or research.

7120 Measurement of Behavior (3) Prereq: PSYC 4111 or equivalent. Techniques and theories of behavior measurement; problems of data collection; reliability, validity, design, and analysis of measurement instruments for the psychological sciences.

7130 Cognitive Bases of Behavior (3) Cognitive processes involved in memory, language, decision making; role of cognitive variables in controlling behavior.

7134 Biological Bases of Behavior (3) Prereq: graduate standing in psychology or consent of instructor. Selected biological systems involved in mediation of behavior.

7140 Social Basis of Behavior (3) Prereq: graduate standing in psychology or consent of instructor. Social, organizational, and cultural influences on human behavior; research in social and organizational psychology.

7160 Professional School Psychology (3) Prereq: graduate standing in psychology or consent of instructor. Roles and functions of the school psychologist.

7111 Advanced Statistics (3) Prereq: PSYC 4111 or equivalent. Machine calculation, coding, measures of centrality and variation, regression, correlation, prediction, probability, statistical inference, analysis of variance, multivariate techniques for the psychological sciences.

7117 Methodology and Research Design (3) Prereq: PSYC 4111 or 7111. Scientific approach to psychological questions, research, design, and methodology; logic and philosophy underlying psychological theory and research; social psychology of the psychological experiment; experimental and quasi-experimental designs; problems in observation and measurement of behavioral variables; methodological and philosophical considerations in analysis of data.

7125 Psychological Assessment—II (3) Prereq: consent of instructor. Clinical assessment techniques including individual tests of intelligence, mental status examination, interview, and behavioral assessment; procedures for both children and adults.

7165 Psychoeducational Assessment (3) Prereq: graduate standing in psychology or consent of instructor. Instruction and practicum in administration and interpretation of individually-administered intellectual assessment measures and diagnostic achievement techniques.

7166 Nonbiased Assessment in the Schools (3) Prereq: PSYC 7165 or equivalent; or consent of instructor. Methods and problems in psychological assessment including theory and research on test bias; alternatives to standardized tests.

7171 Developmental Disorders and Psychopathology of Children (3) Theories, research, and contemporary issues related to normal and problem behaviors of children.

7185 Behavior Therapy (3) Modern treatment and assessment procedures based on learning theories; behavioral analysis and theoretical orientations as applied to a wide variety of clinical disorders.

7640, 7641 Practicum in Social-Industrial Psychology (1-6, 1-6) Prereq: consent of instructor. May be repeated for credit; a max. of 9 sem. hrs. may be earned in this series. Supervised experience in social-industrial psychology.

7660 School Psychological Consultation (3) Prereq: graduate standing in psychology or consent of instructor. Instruction and practicum which provide psychological consultation on short-term behavior and academic problems for teachers and other school personnel.

7668, 7669 Practicum in School Psychology (1-6, 1-6) Prereq: admission to doctoral program in school psychology. Each course may be repeated for a max. of 6 sem. hrs. credit. Pass-fail grading. Closely supervised experience in schools in which students perform psychoeducational assessments, consult with teachers, and function as members of multidisciplinary teams; cases include children with specific learning disabilities, behavior disorders, and mental retardation.

7670, 7671 Practicum in Developmental Psychology (1-6, 1-6) Prereq: consent of instructor. May be repeated for credit; max. of 9 sem. hrs. may be earned in this series. Supervised experience in developmental psychology.

7688, 7689 Practicum in Clinical Psychology (1-3, 1-3) Prereq: consent of instructor and enrollment in clinical psychology training program. A max. of 18 sem. hrs. may be earned in this series; 12 sem. hrs. are required. Supervised experience in the application of clinical psychological assessment and intervention techniques with behaviorally disordered populations (adult, child, medical).

7754 Psycholinguistics: Linguistic Perspectives (3) Prereq: ENGL 4010. Also offered as COMD 7754. Theories of constituent structure and their application; discourse/semantic principles and their application; speech errors and language universals.

7925 Psychological Assessment—II (3) Prereq: PSYC 7125 or equivalent. Administration and interpretation of objective and projective tests of personality and psychopathology; neuropsychological assessment techniques.

7926 Advanced Personality Diagnosis (3) Prereq: PSYC 7925 or equivalent. Interpretation of assessment techniques; practice in determining differential diagnosis; treatment planning based on assessment techniques.

7927 Psychotherapy and Behavior Change (3) Prereq: consent of instructor. Theoretical and empirical considerations relevant to psychoanalytic, humanistic, behavioral, and cognitive-behavioral approaches for treating disordered behavior.

7928 Advanced Techniques in Adult Clinical Psychology (3) Prereq: PSYC 7125, 7185, 7927, and 7982; or equivalent. Common assessment methods and empirically supported treatment procedures for the major adult behavior disorders.

7936 Seminar in Psychopharmacology (3) Prereq: consent of instructor. Neurotransmitters, drugs affecting behavior, addiction, and pharmacotherapy of behavior disorders.

7937 Seminar in Behavioral Neurology (3) Prereq: consent of instructor. Neuroanatomy of central nervous system and
behavorial assessment techniques; neuropathology and diagnostic criteria.

7938, 7939 Seminar in Experimental Psychology (3,3) Each course may be taken twice for credit when topics vary.

7948, 7949 Current Problems in Social Psychology (3,3) Prereq: consent of instructor. Each course may be taken twice for credit when topics vary. Research and methodological issues.

7958, 7959 Current Problems in Industrial Psychology (3,3) Prereq: consent of instructor. Each course may be taken twice for credit when topics vary. Research and methodological issues; topics may include leadership, motivation, organizational development and change, performance appraisal, and selection approaches.

7968 Current Problems in School Psychology (3) Prereq: graduate standing in school psychology program or consent of instructor. Research and methodological issues in school psychology; topics vary.

7969 Internship in School Psychology (1-6) Prereq: satisfactory completion of the general and language examinations and faculty approval. May be repeated for a max. of 12 sem. hrs. credit. One full academic year of supervised internship that is no less than 1200 hours, half of which must be in a school setting; internship requirement may be fulfilled by completing one full academic year or two years of one-half time internship experience; at least one hour per week is devoted to direct supervision of each intern. Pass-fail grading.

7971 Advanced Techniques in Clinical Child Psychology (3) Prereq: PSYC 7125, 7171, and 7925; or equivalent. Theory and principles of assessment and intervention in childhood psychopathology.


7978, 7979 Current Problems in Developmental Psychology (3,3) Prereq: consent of instructor. Each course may be taken twice for credit when topics vary. Research and methodological issues.

7982 Advanced Psychopathology (3) Prereq: PSYC 3082 or equivalent. Theories of psychopathology, specific etiological hypotheses, and pertinent research evidence.

7983 Biological Variables in Psychopathology (3) Prereq: PSYC 4034 or equivalent. Biological variables in major mental disorders; psychological variables in physical disorders.

7984 Advanced Techniques in Behavioral Medicine (6) Prereq: PSYC 7185. Assessment and treatment procedures used by behavioral clinicians in medical settings; issues in medical consultation and liaison.

7985 Current Problems in Personality Psychology (3) Prereq: consent of instructor. May be taken twice for credit when topics vary. Research and methodological issues.

7988, 7989 Current Problems in Clinical Psychology (3,3) Prereq: consent of instructor. Each course may be taken twice for credit when topics vary. Research and methodological issues.

7990 Teaching of Psychology (3) Required of graduate teaching assistants. Seminar and supervised teaching experience; philosophy, theory, and practice in higher education with application to undergraduate instruction in psychology.

7997 Clinical Psychology Internship (3 or 6) Prereq: completion of course work and general examination. Open only to graduate students nominated by the Department of Psychology and accepted by an approved internship program. May be repeated for a max. of 15 sem. hrs. credit. Supervised evaluation and treatment of individuals manifesting mental disorders.

7999 Professional Considerations in Psychology (3) Required of all doctoral candidates. Professional ethics, practice, and responsibility.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8939 to 8999 Independent Research (1-6 each) Prereq: consent of instructor. Each course may be repeated for credit; max. of 15 sem. hrs. in this series allowed toward doctoral requirements. Pass-fail grading. Depending on the area of independent research, students register for research in:

8939 Experimental Psychology
8949 Social Psychology
8959 Industrial Psychology
8979 Developmental Psychology
8989 Clinical Psychology
8999 Personality Psychology

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

PUBLIC ADMINISTRATION (PADM)

5010 Statistical Methods for Public Administration (3) Prereq: college algebra. 2 hrs. lecture; 2 hrs. lab. Open only to students in the M.P.A. program. Also offered as QBA 5010. Descriptive measures for populations and samples; basic probability theory; distributions of discrete and continuous random variables; hypothesis testing and estimation for means, variances, and proportions; measures of association; regression analysis; index numbers; applications in public administration.

5600 Microeconomic Theory for Policy Analysis (3) Open only to students in the M.P.A. program or by consent of instructor. Also offered as ECON 5600. Concepts and analytical tools of microeconomics; their relevance for decision and policy making in public and nonprofit sectors; theories of demand, production, cost, market structures, and distribution; analysis of economic problems and policies, efficiency criteria, social impacts, and limitations of the market system.

7010 Decision Models for Public Administration (3) Prereq: PADM 5010. 2 hrs. lecture; 2 hrs. lab. Open only to students in the M.P.A. program. Also offered as POLI 7010 and QBA 7010. Models for decision making under conditions of certainty, risk, and uncertainty; statistical decision making with and without sample information; linear programming using graphical and simplex methods; transshipment and assignment problems; project management using PERT and CPM; forecasting models; cost benefit analysis; current topics in public administration.

7710 Financial Management for Governments (3) Prereq: ACCT 4421 and QBA 5010. Also offered as FIN 7710.

7800 Independent Study in Public Administration (3) Prereq: prior written approval of faculty supervising work. May be taken twice for credit. Independent study by M.P.A. student.

7850 Public Administration Internship (3) Required of all M.P.A. students. Work within a federal, state, or local government unit, non-profit or private concern interfacing with the public sector; regular meetings with and submission of a research report to a member of the graduate faculty; internships...
7900 Public Administration Colloquium (3) Required of all MPA students in final semester of program; research project required. Legal, ethical, economic, political, and management principles used in assessing public administration topics; policy and administration issues.

7902 Seminar in Public Policy (3) Also offered as POLI 7902.

**QUANTITATIVE BUSINESS ANALYSIS (QBA)**

2000 Statistical Methods and Models— I (3) Prereq: MATH 1431, working knowledge of computer programming, and credits for or enrollment in MATH 1435. Statistical description and inference; data distributions, descriptive measures, index numbers, time series analysis; review and extension of probability theory; probability distributions; standard distributions, including normal and binomial; sampling distributions.

2001 Introduction to Management Science (3) Prereq: MATH 1435 and QBA 2000. Methods of operations research; decision theory, elementary classical optimization techniques, linear programming, and critical path models.

2100 Introduction to Management Information Systems (3) Prereq: ACCT 2001 and one semester of computer programming. Management of information, computers, and systems; utilization of management information systems to improve managerial decision making.

3000 Statistical Methods and Models— II (3) Prereq: MATH 1435 and QBA 2000. Continuation of QBA 2000; statistical inference; additional applications of sampling distribution; the chi-square, student's t, and F distributions; estimation; hypothesis testing; survey sampling; linear regression; simple correlation; analysis of variance; nonparametric tests.

3001 Conceptual Foundation for Statistical Analysis (3) Prereq: MATH 1021 or equivalent. Foundations for advanced work in statistical inference; probability, probability distributions, expected value, sampling distributions; application of sampling distributions to problems of estimation and control.

3002 Conceptual Foundations for Operations Research (3) Prereq: MATH 1021 or equivalent. Not open to undergraduate students in the College of Business Administration. Foundations for work in operations research; fundamentals of analysis, systems of linear equations, selected topics from matrix algebra.

3070 Independent Reading and Research in Statistics and Operations Research (1-2) Prereq: senior standing and consent of instructor. May be repeated for credit for a max. of 4 sem. hrs. Student is responsible for registering with a faculty member and selecting an area of reading and/or research.

3100 Data Organization and MIS Applications (3) Prereq: QBA 2100. Information storage and effective manipulation and processing of data structures with reference to business applications.

3110 Database Processing for Management (3) Prereq: QBA 3100. Structure and function of managerial databases; design options and implementation of database management systems in the firm; laboratory practice includes use of a particular software system.

3115 Operations/Production Management (3) Prereq: QBA 2001. Designing, operating, and controlling productive systems; product design, facility location and layout, inventory control, forecasting, material requirements planning, aggregate planning, scheduling, and quality control; emphasis on applications in manufacturing and service organizations.

3200 Advanced Business Programming (3) Prereq: CSC 2270. Computer programming methods for business systems using COBOL; advanced features of the language; emphasis on programming applications for large-scale business systems.

4000 Introduction to Statistical Theory (3) Prereq: proficiency in basic statistical methods and MATH 1552; or consent of instructor. Concepts of probability distribution and statistical inference; theoretical foundations for estimating and testing hypotheses about means, proportions, and variances; chi-square and F tests.

4010 Basic Forecasting Models (3) Prereq: QBA 3000 or equivalent. Single-equation multiple regression and time series modeling procedures for business and economic forecasting; using time series data in regression models; time series modeling, including classical decomposition procedures and exponential smoothing; use of computer programs for regression and time series modeling and forecasting.

4011 Sample Survey Methods (3) Prereq: QBA 3000 or equivalent. Designing sampling systems; alternative sample designs; problems of bias; techniques of inference from alternative designs; criteria for selecting optimal sampling plans; methods and applications of sample surveys.

4012 Applied Nonparametric Statistics (3) Prereq: QBA 3000 or equivalent. Applied nonparametric statistics including techniques for one-sample problems, comparison of two treatments, paired comparisons, randomized complete blocks, comparison of more than two treatments, tests of randomness and independence, and measures of correlation.

4013 Bayesian Probability and Statistical Methods (3) Prereq: QBA 3000 or equivalent. Assessment of subjective probability distributions; Bayesian estimation and inference; application of Bayesian techniques to business problems.

4020 Fundamentals of Operations Research (3) Prereq: QBA 2001. Continuation of QBA 2001; classical optimization, queuing, and extensions of linear programming including integer and mixed-integer algorithms; applications of operations research techniques to complex management systems; use of computer models.

4021 Foundations of Mathematical Programming (3) Prereq: credit or registration in QBA 4020. Theoretical foundations of linear programming in single and multiple objectives; classical nonlinear optimization of unconstrained and constrained functions; Kuhn-Tucker conditions and quadratic programming.

4023 Applied Decision Analysis (3) Prereq: QBA 3000 and credit or registration in QBA 4020. Formulation of decision problems; construction of utility functions and quantification of prior information; methods of Bayesian decision with applications; multiple decision problems; sequential analysis.
4031 Applied Linear Models (3) Prereq: QBA 3000 or equivalent. Development of a unified approach to estimation and hypothesis testing in linear statistical models; emphasis on appropriate specification and interpretation of models and statistical hypothesis; use of available computer routines and interpretation of results; unbalanced analysis of variance models, linear regression models, and analysis of covariance models.

4110 Database Administration (3) Prereq: QBA 3110 or equivalent. Information resources management; database management systems; data dictionary/directory systems; database control and protection; distributed databases; laboratory practice includes use of a particular software system.

4125 Analysis and Design of Management Information Systems (3) Prereq: QBA 3110, 3200. Design philosophies and techniques for the creation of information systems for management decision making; conceptual design of actual information systems.

4167 Operations Planning and Control (3) Prereq: QBA 3115 or equivalent. Planning and control of operations in manufacturing and service organizations; aggregate planning, master scheduling, requirements planning, and activity control; emphasis on developing skills through case studies and computer models.

4168 Management and Operation of Inventory Systems (3) Prereq: QBA 3115. Management and operation of independent demand inventory systems; short-term demand forecasting, fixed-order size systems, fixed-order interval systems, single-period order systems, and inventory control systems.

4200 Quality Assurance and Control (3) Prereq: QBA 2000 or equivalent. Credit will not be given for both this course and IE 4453. Principles of quality management; design and application of control charts and acceptance sampling plans for attributes and variables; methods for design quality; basic concepts of reliability.

4501 Management Systems Simulation—I (3) Prereq: QBA 2001, CSC 1240 or 1248. Computer simulation; modeling ongoing systems and using simulation for problem solving; theory of simulation; logic for queueing and inventory applications; simulation languages and SLAM, a network simulation language.

4502 Management Systems Simulation—II (3) Prereq: QBA 3000 and 4501. Advanced computer simulation; design for using simulation models to solve managerial problems; discrete event simulation; validation of simulation models; variance reduction techniques; SLAM simulation language.

4511 Industrial Simulation (3) Prereq: QBA 4020. See IE 4511.

5010 Statistical Methods for Public Administration (3) Prereq: college algebra. 2 hrs. lecture; 2 hrs. lab. Open only to students in the M.P.A. program. Also offered as PADM 5010.

5014 Managerial Statistics (3) Prereq: QBA 3002 or equivalent; and knowledge of a programming language. Open only to students in the M.B.A. program. Statistical description and inference; data distributions, descriptive measures, index numbers, time series analysis; review and extension of probability theory; probability distributions; standard distributions, including normal, binomial, Poisson, and hypergeometric; sampling distributions; estimation of means, proportions, and totals; applications in management.

7000 Statistical Theory (3) Prereq: QBA 4000 or equivalent; and consent of instructor. Continuation of QBA 4000; theoretical basis for topics in statistical inference including tests of hypotheses, experimental design, regression analysis, general linear models, nonparametric statistics, sequential tests of hypotheses, and complex sample designs.

7009 Simulation of Stochastic Processes (3) Prereq: fundamental knowledge of computer programming, statistics, and operations research; and consent of instructor. Simulation models, methodologies, and languages; development of complex models; validation of results; completion of several large-scale projects involving extensive use of digital computer required.

7010 Decision Models for Public Administration (3) Prereq: QBA 5010. 2 hrs. lecture; 2 hrs. lab. Open only to students in the M.P.A. program. Also offered as POLI 7010 and PADM 7010.


7021 Sample Design and Analysis (3) Prereq: QBA 7024 or equivalent. Methodology of designing sampling systems; alternative sample designs; relative efficiency of sampling systems; problems of bias; techniques of estimation; criteria for selecting optimal sampling plans; emphasis on applications with theoretical foundations.

7022 Multivariate Data Analysis (3) Prereq: QBA 7024 or equivalent. Multivariate methods, including principal components, canonical correlation, factor analysis, discriminate analysis, classification procedures.

7024 Advanced Statistical Analysis for Research—I (3) Prereq: proficiency in calculus, linear algebra, basic statistical methods, and computer programming. Methods of statistical inference; testing hypotheses about single and multiple means and proportions; simple and multiple linear regression; design of simple random, stratified, and cluster samples; extensive use of statistical computer programs.

7025 Advanced Statistical Analysis for Research—II (3) Prereq: QBA 7024 or equivalent. Continuation of QBA 7024; advanced regression analysis; experimental design and analysis of variance; nonparametric methods; multivariate techniques; extensive use of statistical computer programs.

7027 Advanced Forecasting Models (3) Prereq: QBA 4010 or 7024 or equivalent background in regression analysis. Advanced topics in forecasting; time-series analysis; emphasis on stochastic parameter models and autocorrelated error structures; univariate autoregressive integrated moving average (ARIMA) models; multivariate models and transfer functions; extensive use of computer programs.

7070 Seminar in Advanced Business Problems (3) May be taken twice for credit when topics vary. Special topics in statistics and quantitative methods.

7101 Introduction to Operations Research Methods (3) Prereq: proficiency in basic statistical methods, calculus, linear algebra, and computer programming. Nature of operations research; general decision models, classical optimization, linear programming, duality and sensitivity analysis, parametric programming, multiple objective programming, network analysis, and simulation; computer used to solve large-scale problems; emphasis on most widely used techniques.

7102 Survey of Operations Research—Deterministic Models (3) Prereq: QBA 4021. Integer and mixed-integer programming, extensions of classical optimization, quadratic programming, separable programming, and dynamic pro-
Religious Studies

1031 Introduction to Religion (3) Ways of being religious; nature of religious experience; and function of religious ritual; influence of religions on the individual and society.

1004 Old Testament (3) Scholarly study of the Hebrew Bible (Old Testament) against the background of the historical and religious life of ancient Israel.


2001 Faith and Doubt (3) Intellectual sources of religious doubt; alternatives to traditional Judeo-Christian religion, including existentialism, feminism, and psychological behaviorism.

2005 Jesus in History and Tradition (3) Search for the historical Jesus; Biblical and non-Biblical sources and influential theories about Jesus.

2007 Eastern Religions (3) Doctrines, practices, and philosophical import of major religions of Southern and Eastern Asia.

2008 Philosophy of Religion (3) Same as PHIL 2028. Meaning of religion as a pervasive phenomenon in human societies; faith and reason, nature of diversity, arguments for and against God’s existence, religious knowledge and experience, morality and culture, the problem of evil.


2101 Judaism (3) Jewish history, faith, and worship; Judaism’s past and present relations with Christianity and Islam.

2103 The Religion of Islam (3) Islam and the various communities and beliefs of Muslims; the prophet Muhammad, the Quran (Koran), excerpts from the leading Islamic theologians, Islamic theories of law and politics, relations to other religions, and the modern impact of Islam.

2201 Fundamentalists, Evangelicals and Charismatics (3) The roots, guiding convictions, methods of biblical interpretation, and mass media activity of these religions in the United States.

2925 Independent Study/Tutorial (1-3) Prereq: QBA 4010 or QBA 7042. May be taken 3 times for credit when topics vary. Readings, conferences, and reports under faculty direction.

3004 Archaeology and the Bible (3) Prereq: QBA 1004 or QBA 1005 or equivalent. Also offered as ANTH 3004. Major figures and discoveries influencing the historical study of the Bible; emphasis on results of excavations and discoveries of written documents and inscriptions.

3005 Paul and Early Christianity (3) Paul’s writings in historical context; assessment of his place in the development of the church; significant themes in his theology.

3010 Special Topics in Religious Studies (3) May be taken twice for credit when topics vary.

3028 Mysticism (3) Mystical religious experience in eastern and western religion; some attention to shamanism and the occult; mystical grounds for belief in God.
3051 Apocalypse: Then and Now (3) The Book of Revelation in its historical and social setting; and in relation to the apocalyptic literature of early Judaism and contemporary culture.

3101 American Judaism (3) American Jewish history; Judaism as a cultural entity and religious faith.

3104 Ancient Hebrew Prophets (3) Prophetic movement in ancient Israel; different modern interpretations of prophecy.

3201 Psychological Theories of Religion (3) Also offered as PSYC 3201. Use of various psychological theories to explain religious belief and practice, conversion experiences, ritual acts, and altered states of mind.

3600 Hinduism (3) A survey of Hinduism from its origins to Gandhi.

3800 Buddhism (3) Fundamental teachings from the Buddha to zen; emphasis on Indian, Tibetan, and South Asian traditions.

4001 History of Early Christian Thought (3) Prereq: one religious studies course. Christian thought from the New Testament period to the split between the eastern and western church.

4003 History of Modern Christian Thought (3) Prereq: one religious studies course. Major figures in the history of Christian thought from the Reformation to the 20th century; conflict of religion and science, 18th century rationalism and pietism, and 19th century roots of modern theology.

4005 History of the Christian Church: 50-450 (3) Also offered as HIST 4005. Christianity's rise to prominence; its struggle against paganism; emphasis on institutional history of the church.

4006 History of the Christian Church: 450-1350 (3) Also offered as HIST 4006. Medieval Latin Christianity; emphasis on central role of the church in culture, politics, and social organization.

4031 Comparative Religions (3) See ANTH 4031.

4051 Gnosticism and Early Christianity (3) Exploration of the Gnostic religious perspective; its origins and the responses of early Christian leaders.

4161 History of Religion in the United States (3) See HIST 4161.

4191 Religions of China and Japan (3) See HIST 4191.

4300 Theories of Myth (3) Theories from anthropology, sociology, psychology and history of religion.

4500 Seminar in Biblical Studies (3) Prereq: one course in Biblical studies. May be taken twice for credit when topics vary.

4928 Augustine, Anselm, and Aquinas (3) See PHIL 4928.

4944 Philosophical Theology (3) Prereq: two courses in philosophy or consent of instructor. Same as PHIL 4944. Major works in philosophical theology by such authors as Hartshorne, Farrer, Tillich.

4990 Independent Reading and Research (3) Open to advanced students with prior approval of faculty member who will direct the course. Student is responsible for selecting area of reading and research and gaining agreement of faculty member to direct the course.

**RUSSIAN (RUSS)**

1001 Elementary Russian (5) Pronunciation, oral-aural practice, elementary grammar, translation.

1020 Russian for Reading Knowledge (5) Specialized course intended to satisfy departmental foreign language reading requirement for graduate students, but carrying no graduate credit. Undergraduates may enroll on pass-fail basis only. Does not count toward satisfying foreign language requirement for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and introductory Russian courses.

2051 Intermediate Russian (5) Pronunciation, oral-aural practice, completion of elementary grammar, translation.

2053 Intermediate Russian (3) Continued oral-aural practice; readings and translation of Russian texts; vocabulary building.

2055 Readings in Russian Literature (3) Russian literature and culture; readings in contemporary Russian materials.

2075 Introduction to Russian Culture and Civilization (3) Credit not applicable toward a major in Russian. Taught in English; knowledge of Russian not required. Also offered as HIST 2135. Geography, history, religion, literature, music, art, architecture, and scientific and technological achievements of the Soviet Union.

3061 Advanced Russian Grammar (3) Prereq: RUSS 2055 or equivalent. Vocabulary building, dictation, and readings of modern Russian prose.

3062 Advanced Russian Composition (3) Prereq: RUSS 3061 or equivalent. Drill in oral and written original composition; attention to style, syntax, idioms, and inflections.

3071 Survey of Russian Literature (3) Prereq: RUSS 2055 or equivalent. Russian literature from the beginning to the late 19th century.

3072 Survey of Russian Literature (3) Prereq: RUSS 2055 or equivalent. Russian literature from the late 19th century to the present.

3401 The Fairy Tale (3) Taught in English; knowledge of Russian not required. Structure and substance of the traditional fairy tale; examples from German and Russian sources.

4002 Russian Language: Phonetics and Phonemics (3) Phonologic elements of Russian; interrelation of consonants and vowels, syllabic division, and structure of the syllable; main types of stress and intonation; Russian script and various systems of phonetic transcription.

4030 Russian Literature: Novel (3) The Russian novel from its beginning to the end of the 19th century.

4031 Russian Literature: Novel (3) Special works of Turgenev, Dostoevski, Tolstoy.

4032 Russian Literature: Drama (3) History of Russian drama; representative plays of Griboyedov, Gogol, Ostrovsky, Chekhov.

4033 Russian Literature: Poetry (3) Russian poetry of the 19th and early 20th centuries.

4061 Soviet Literature (3) Russian literature from 1917 to the present.

4081 Russian Literature in Translation: 19th Century (3) Credit not applicable toward a major in Russian; knowledge of Russian not required. Masterpieces of 19th-century Russian literature, including the works of Turgenev, Dostoevski, and Chekhov.

4082 Russian Literature in Translation: 20th Century (3) Credit not applicable toward a major in Russian; knowledge of Russian not required. Masterpieces of 20th-century Russian literature, pre- and post-Revolution, including the works of
SOCIAL WORK (SW)

Further information concerning the School of Social Work is given in the School of Social Work Bulletin and the Graduate School Catalog.

4915 Independent Work (1-3) May be repeated for a max. of 3 sem. hrs. credit. Readings in Russian literature directed by a senior faculty member.

4000 Introduction to Social Work (3) The profession of social work; history, description of programs in contemporary American society; role of the social worker in meeting social needs.

3000 Perspectives in Contemporary Social Welfare (3) Prereq: SW 2000 or equivalent. Changing concepts of social welfare; issues, policies, and proposals related to meeting economic and developmental needs.

3002 The Child and the Community (3) Common and particular needs of children in the community; social welfare services developed by communities for care and training of children.

3003 Skills in Working With People (3) Basic skills in working with people; understanding attitudes; use of community resources.

3007 Juvenile Delinquency (3) Nature and extent; sociological and psychological factors in causation and treatment of delinquent children; how communities are organized to help troubled youth and to prevent inception and spread of juvenile problems.

3008 Workshop: Services to Families and Children in Trouble (3) Helping families and children meet needs and problems; effects of limited income, separation, unmarried parenthood, mental or physical illness, delinquency, and disturbed family relationships; methods for strengthening family life.

3011 Community Services and the Aged (3) The aged population and their needs; available resources and services in the community; assisting the aged in 4003 Penology (3) Development of the penitentiary in society; punishment versus rehabilitation; problems in operating adult prison units.

4005 Groups and Social Work (3) Use of groups in social work; types of groups, dynamics, decision making processes and worker roles.

4006 The Citizen and Social Change (3) Principles of citizen participation; skills necessary to mobilize community action groups toward solving community social problems.

4007 Social Competency and Social Work Clients (3) Prereq: SW 3003. Means and methods of developing social competency of social work clients.

5101 Human Behavior and the Social Environment (3) Behavioral science base of social work practice; interrelationship of biological, psychological, social, and cultural determinants of functional human behavior.

5102 Social Work Practice I (3) Introduction to social work theory, principles, and intervention skills common to social casework and group work; psychosocial perspectives in intervention.

5103 History and Philosophy of Social Work (3) Evolution of social welfare policies, programs, and the profession within the context of socioeconomic and cultural changes.

5104 Human Diversity (3) Social effects of stigma and prejudices (racism, sexism, ageism, and classism) associated with human diversity; implications of social oppression and structural pluralism for social work.

5105 Maladaptive Process (3) Determinants and modifiability of maladaptive patterns of individuals, families, small groups; and organizational functioning.

5206 Social Work Research (3) Standards and methods of scientific inquiry applied in social work research; concept formulation; research design; sources, collection, and presentation of data.

5326 Social Work Practice II (3) Techniques of working with planning action groups; problem identification, priority assignments, intervention channels, intervention activities, structure analysis, and structure synthesis used to ameliorate social problems in larger populations.

5505 Generic Field Internship I (3) Pass-fail grading. $100 internship fee. Internship in an approved agency.

5506 Generic Field Internship II (3) Pass-fail grading. $100 internship fee. A continuation of SW 5505.

7210 Social Welfare Policy in a Changing Society (3) Nature of social policy; policy formulation and factors influencing social objectives within the framework of goals and values of the social work profession.

7306 Advanced Treatment of Individuals with Internalized Problems (3) Differential diagnostic assessment and treatment of individuals with complex intrapersonal problems.

7307 Direct Practice with Children and Adolescents (3) Maladaptive patterns of behavior in children and adolescents; intervention strategies with children, parents, families, and groups.

7308 Social Work with Groups: Theory and Practice (3) Dynamics of social work with groups; members' behavior and corresponding worker roles and responses.

7309 Advanced Methods of Group Treatment (3) Diagnostic and treatment procedures used in intensive group therapy.

7335 Program and Practice Evaluation (3) Prereq: SW 5206. Types of research, designs, and instruments used in social work; research processes from specification to hypotheses and collection of data.

7402 Social Work Practice in Corrections (3) Social work processes in corrections; population served; existing and needed delivery systems for rehabilitative services; influence of the host setting.

7403 Social Work Practice with the Elderly (3) Demographic characteristics of the aging population; aging as a developmental process with economic, biological, psychological, and socialization aspects; impact of legislative and social service systems.

7404 Social Work Practice in Schools (3) Implementation of social work values, purposes, and methods in a school setting.
7405 Treatment of Marital Pairs and Family Groups (3) Identification and modification of dysfunctional transactional patterns; facilitating communication; improving the quality of marriage and family relations.

7407 Social Work Practice in Child Welfare (3) Historical developments, current issues, and practice standards; social and organizational systems; laws and attitudes which affect child welfare services.

7408 Social Work in the Health Care Policy (3) Methods of social work practice in health care; relevant issues; adaptation of community organization, administration, and research to the requirements of the health care field.

7409 Law and Social Work (3) Relationship of law to social work; statutes, cases, and doctrinal materials in personal and family breakdown; programs for income maintenance; Supreme Court cases concerning criminal justice, juvenile courts, and the rights of the confined.

7410 Comparative Social Welfare (3) Comparative analysis of international social welfare systems; differential cross-national social services; similarities and differences among nations.

7411 Social Work Practice in Mental Health (3) Evaluation and development of mental health services; role of direct and indirect social work services in the mental health delivery system.

7412 Social Work Practice in Medical Care (3) Nature of social work practice in the field of medical care; medical care system and consumer problems; role of medical social workers.

7413 Social Policy and Mental Health (3) Foundations of public social policy in mental health; structure of the mental health service; current issues and trends.

7426 Macrostrategies in Social Work Practice (3) Community intervention methods focusing on administrative, legislative, and political aspects of planned social change; formal and informal political process; intervention through use of expertise, lobbying, public opinion, and media.

7435 Data Analysis and Research Management (3) Data collection, analysis, and general research management; research strategies and analytical techniques; design and execution of selected research instruments; manual and computer processing of data.

7455 Management in Human Services (3) Management used in the effective provision of social services; techniques of modern management; interdisciplinary and practical approaches; unique aspects of human service management; development of critical attitudes and management skills.

7605 Advanced Field Internship I (3) Pass-fail grading. $100 internship fee. Supervised internship in an approved setting related to student's area of concentration.

7606 Advanced Field Internship II (3) Pass-fail grading. $100 internship fee. Supervised internship in an approved setting related to student's area of concentration.

7710 Task-Oriented Group Interaction in Social Work (3) Interaction of small groups in social work practice; emphasis on understanding barriers to goal-directed interaction and on helping groups accomplish tasks.

7800 Special Topics in Fields of Social Work Practice (3) Attributes of practice by fields; organization of the service delivery system; issues and trends; intervention strategies and methods.

7801 Seminar: Family Violence (3) Topics in family violence; their relevance to social work practice; program development and preventive approaches and issues.

7802 Seminar: Current Problems and Issues in Direct Practice in Mental Health (3) Selected topics.

7803 Grant and Proposal Writing for Human Service Organizations (3) Methods of accessing federal, state, and private funds; developing grant and contract proposals.

7804 Seminar: Substance Abuse and Chemical Dependency (3) Selected topics in substance abuse and chemical dependency; their relevance to social work practice.

7806 Policy Issues in Social Welfare (3)

7905 Independent Reading and Research in Social Work Practice (3) Prereq: consent of instructor.

7906 Independent Reading and Research in Social Welfare Policy (3)

7907 Public Policies and the Aging (3) Public policies which affect quality of life for the elderly; Older American Act, Social Security Act, Medicare and Medicaid policies.

7908 Social Development: International Perspectives (3) Concepts of social development; extent of social underdevelopment in the modern world; theories and normative perspectives; social and national planning.


8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

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**SOCIOLGY (SOCL)**

In this department, the second digit of the course number denotes the subject area of the course as follows: 0—general courses; 1—theory; 2—methods and statistics; 3—social organization; 4—social institutions; 5—social issues; 6—social interaction; 7—population and ecology; 8—not used; and 9—reading and research (except for thesis research and dissertation research which are numbered 8000 and 9000, respectively).

1005 Social Life in the United States (3) Open only to international students. An orientation course on people, culture, social institutions, and processes.

2001 Introductory Sociology (3) Major subject areas and principles of sociology.

2091 Selected Topics in Sociology (3) May be taken twice for credit when topics vary.

2201 Introduction to Statistical Analysis (4) 3 hrs. lecture; 2 hrs. lab. Completion of MATH 1021 is strongly recommended before taking this course. Same as EXST 2201. Variables used in sociological research, level of measurement, distributions, measures of association and correlation, simple linear regression, probability, sampling distributions, interval estimation and tests of hypotheses, and simple analysis of variance.

2211 Methods of Sociological Research (3) Prereq: SOCL 2001 and 2201; or equivalent. Scientific methods and their application in sociological research, including problem selec-
designs, measurement, sampling procedures, observation, data collection procedures, coding, data processing, and analysis procedures.

4301 Social Organization (3) Prereq: SOCL 2001 or equivalent. Structure and function of social systems and institutions.

4311 Complex Organizations (3) Prereq: SOCL 2001 or equivalent. Bureaucracies and complex formal organizations; theories, goals, structure, processes, organizational behavior, and interaction of organizations with the environment.

4321 The Community (3) Prereq: SOCL 2001 or equivalent. Classical and contemporary perspectives on the community; theoretical and methodological issues associated with community studies.

4331 Social Stratification (3) Prereq: SOCL 2001 or equivalent. Class and rank structure in society; determinants of social class, mobility, and changes in class position of both individuals and groups; attitudinal and behavioral consequences of class position.

4341 Social Change (3) Prereq: SOCL 2001 or equivalent. Major theoretical and empirical problems in the study of social change.

4351 Rural Social Organizations (3) Prereq: SOCL 2001 or equivalent. Social organization in rural societies: groups, organizations, institutions, and communities.

4361 Latin American Societies (3) Prereq: SOCL 2001 or equivalent. Social structure, change, and development.

4401 The Family (3) Prereq: SOCL 2001 or equivalent. The family as a social institution.

4411 Sociology of Work (3) Prereq: SOCL 2001 or equivalent. Work and the division of labor in industrial society; sociology of occupations and professions.

4421 Political Sociology (3) Prereq: SOCL 2001 or equivalent. Comparison of social movements and political parties.

4431 Sociology of Education (3) Prereq: SOCL 2001 or equivalent. Education as an institution of society; the school as a social system and socialization within schools.

4441 Sociology of Religion (3) Prereq: SOCL 2001 or equivalent. Nature of religion; societal and cultural factors in religion; role of religion in social change and in contemporary society.

4451 Sociology of Medicine (3) Prereq: SOCL 2001 or equivalent. Sociological analysis of the structure and function of health agencies and occupations; social and cultural factors in the cause and treatment of illness.

4461 Criminology (3) Prereq: SOCL 2001 or equivalent. Crime, the criminal justice system, and penology.

4471 Sociology of Law (3) Prereq: SOCL 2001 or equivalent. Law and social change; evolution of legal institutions; group conflict and law; influence of legal controls and sanctions on human behavior.

4481 Science, Technology, and Society (3) Prereq: SOCL 2001 or equivalent. Scientific institutions and development; nature of technological decision making; reciprocal effects of scientific and societal change.

4501 Social Trends and Social Problems (3) Prereq: SOCL 2001 or equivalent. Contemporary social trends; social problems such as deviance, crime, ethnic relations, poverty, inequality, urbanization, and technology.

4511 Minority Peoples in the United States (3) Prereq: SOCL 2001 or equivalent. Analysis of past and present contributions of ethnic and racial minority groups in the U.S.
4521 Sex Roles in Contemporary Society (3) Prereq: SOCL 2001 or equivalent. Changes in sex roles and sex-related behavior of males and females, including institutional and structural changes.

4531 The Aged in Contemporary Society (3) Prereq: SOCL 2001 or equivalent. Social, demographic, psychological, cultural, and health factors related to the aging process in contemporary society.

4551 Sociology of Development (3) Prereq: SOCL 2001 or equivalent. Central concepts, perspectives, and research themes in sociocultural developmental change.

4601 Personality and Social Structure (3) Prereq: SOCL 3601 or PSYC 3140 or equivalent. Interaction of social structures, such as the family, peer group, and school, with the personalities of individuals; processes by which each affects the other.

4611 Attitudes and Attitude Change (3) Prereq: SOCL 3601 or PSYC 3140 or equivalent. Analysis of attitudes; social factors in their formation and change.

4621 Small Groups (3) Prereq: SOCL 3601 or PSYC 3140 or equivalent. Analysis of groups, their structure and functions.

4701 Population (3) Prereq: SOCL 2001 or equivalent. Processes that influence size and composition of human populations; determinants and consequences of demographic trends.

4711 Human Ecology (3) Prereq: SOCL 2001 or equivalent. Exposition and evaluation of theory of social organization; emphasis on interdependence of population, technology, and organization in adaptation of a population to its environment.

7121 Seminar: Classical Sociological Theory (3) Prereq: consent of instructor. Historical survey of sociology with primary emphasis on European (Marx, Weber, and Durkheim) and early American (Mead and Park) sociologists.

7131 Seminar: Contemporary Sociological Theory (3) Prereq: SOCL 7121 or equivalent. Current theoretical perspectives in sociology ranging from structural-functionalism to ethnomethodology.

7201 Research Methods in Sociology (3) Prereq: SOCL 2201 or equivalent. Introduction to inferential methods in sociological research; emphasis on interpretation and current research.

7203 Advanced Research Methods in Social Science (3) Prereq: SOCL 7201 or equivalent. Also offered as POLI 7963. Survey of advanced methodology in the social sciences; emphasis on general linear model and causal models.

7211 Seminar: Methods of Social Investigation (3) Prereq: EXST 7003 or equivalent. Research methods in the social sciences; interplay of theory and methods of research; formulation of research problems and design; measurement and scaling, sampling; ethics in research; and critiques of social science research.

7221 Seminar: Methodological Issues in Sociology (1) Prereq: SOCL 7211 or equivalent. Assumptions central to scientific study of society; sociology and language, meaning and objectivity; technical and philosophical orientations.

7231 Seminar: Measurement Issues in Sociology (1) Prereq: SOCL 7211 or equivalent. Measurement issues in sociological research; levels, basic approaches, sources of invalidity and error.

7241 Seminar: Topics in Research Design (1) Prereq: SOCL 7211 or equivalent. May be repeated for a max. of 4 sem. hrs. credit if content varies. Specialized areas in sociological research design.

7251 Seminar: Topics in Research Techniques (1) Prereq: SOCL 7211 or equivalent. May be repeated for a max. of 4 sem. hrs. credit if content varies. Specialized areas in sociological research techniques.

7351 Seminar: Topics in Rural Sociology (3) Prereq: consent of instructor. May be repeated for a max. of 9 sem. hrs. credit if content varies. Specialized areas in rural sociology.

7391 Seminar: Topics in Social Organization (3) Prereq: consent of instructor. May be repeated for a max. of 12 sem. hrs. credit if content varies. Specialized areas in social organization.

7491 Seminar: Topics in Social Institutions (3) Prereq: consent of instructor. May be repeated for a max. of 12 sem. hrs. credit if content varies. Specialized areas in social institutions.

7591 Seminar: Topics in Social Issues (3) Prereq: consent of instructor. May be repeated for a max. of 9 sem. hrs. credit if content varies. Specialized areas in social issues.

7691 Seminar: Topics in Social Interaction (3) Prereq: consent of instructor. May be repeated for a max. of 9 sem. hrs. credit if content varies. Specialized areas in social interaction.

7791 Seminar: Topics in Population and Ecology (3) Prereq: consent of instructor. May be repeated for a max. of 6 sem. hrs. credit if content varies. Specialized areas in population and ecology.

7901, 7902 Independent Reading and Research (3,3) Prereq: successful completion of at least one year of graduate work.

7903 Proseminar in Sociology (1) Required twice of both master's and Ph.D. candidates. Pass-fail grading. Contemporary research and critical issues in sociology.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Research in Sociology (1-6) Open only to students engaged in a specific, organized research project under faculty supervision. Student must be engaged in design and implementation of research and analysis and interpretation of data.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

SPANISH (SPAN)

Spanish courses marked with an asterisk (*) may not be taken for credit by native speakers of Spanish.

*1001 Elementary Spanish (5) For students with no preparation in Spanish. Credit will not be given for both this course and SPAN 2050. Oral approach, with a minimum of formal grammar; emphasis on conversation, supplemented by aural drill in the language laboratory.

*1002 HONORS: Elementary Spanish (5) Same as SPAN 1001, with special honors emphasis for qualified students.

*1020 Spanish for Reading Knowledge (5) S Specialized course intended to satisfy departmental foreign language reading requirement for graduate students, but carrying no graduate credit. Undergraduates may enroll on a pass-fail basis only. Does not count toward satisfying foreign language requirement for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and introductory Spanish courses.
2050 Intensive Elementary and Intermediate Spanish (10) Alternative to SPAN 1001 and 2051 sequence. Credit will not be given for both this course and SPAN 1001 or 2051. Basic speaking, comprehension, reading and writing skills; fundamental Spanish grammar; emphasis on spontaneous oral expression.

2051 Intermediate Spanish (5) An honors course, SPAN 2052, is also available. Credit will not be given for both this course and SPAN 2050. Oral approach to the language, supplemented by aural/oral drill in the language laboratory; reading material of moderate difficulty.

2052 HONORS: Intermediate Spanish (5) Same as SPAN 2051, with special honors emphasis for qualified students.

2053 Intermediate Spanish (3) Prereq: a grade of "C" or above in SPAN 2051 or equivalent. An Honors course, SPAN 2054, is also available. Continued reading and oral work, vocabulary building, review of the basic principles of grammar.

2054 HONORS: Intermediate Spanish (3) Same as SPAN 2053, with special honors emphasis for qualified students.

2055 Readings in Spanish Literature (3) An honors course, SPAN 2056, is also available. Readings in contemporary Spanish prose; emphasis on comprehension and oral and written expression in the language.

2056 HONORS: Readings in Spanish Literature (3) Same as SPAN 2055, with special honors emphasis for qualified students.

2058 Spanish Conversation for Non-native Speakers (3) Prereq: SPAN 2053. Does not count toward satisfying the foreign language requirement. Language practice to develop fluency and conversational skills.

2061 Advanced Spanish Grammar (3) F Spanish grammar and syntax.

2062 Advanced Spanish Composition and Syntax (3) S Prereq: SPAN 2061. Drill in original descriptive and narrative composition; emphasis on style, syntax, idioms, and verb forms.

3041 Introduction to Spanish-American Literature (3) Reading and analysis of representative selections from the principal Spanish American writers.

3071 Survey of Spanish Literature (3) F Spanish literature from its beginning to the 18th century.

3072 Survey of Spanish Literature (3) S Main authors and literary movements from the 18th century to the present.

3073 Advanced Readings on Spanish Civilization (3) F Ethnological, geographical, historical, political, economic, and sociological factors necessary for understanding Spanish literature.

3074 Advanced Readings on Hispanic-American Civilization (3) S Parallels SPAN 3073, but focuses on the Hispanic-American countries.

3980 Special Topics in Spanish (3) Prereq: either SPAN 3041 or 3071 and 3072. May be taken twice for credit.

4005 Structure of the Spanish Language (3) Spanish morphology and syntax; structuralist, sociolinguistic, and generative-transformational analyses and applications.

4007 Spanish Medieval Literature (3) Spanish literature from its beginnings to the end of the 14th century; emphasis on the mester de juglaría, mester de clerecía, and masterpieces of prose and poetry of the 14th century.

4020 Spanish Poetry of the Golden Age (3) Spanish poetry from the mid-16th century to the close of the Golden Age; the mystics, the culteranistas and conceptistas and other satiric, epic, and lyric poets of the Siglo de Oro.

4021 Spanish Lyric Poetry of the 18th and 19th Centuries (3)

4033 Spanish Literature of the 18th and 19th Centuries (3) Literature and thought of the 18th and 19th centuries; neoclassicism, romanticism, and realism; drama, poetry, essay, and novel.

4050 Cervantes’ Don Quixote (3) Analysis of Miguel de Cervantes’ masterpiece Don Quixote.

4051 Spanish Prose of the Golden Age (3) Prose fiction of the Siglo de Oro—picaresque, pastoral, and historical, culminating in Cervantes; mystic prose and the early historians of the Indies.

4052 Dramatic Literature of the Golden Age (3) The Spanish comedias; readings from the works of Lope de Vega, Calderón de la Barca, Rojas Zorrilla, Tirso de Molina, and Ruiz de Alarcón.

4061 The Generation of 1898 (3) Principal writers of the Generación del 98 in the fields of poetry, the novel, the stage, and criticism.

4062 Spanish Literature of the 20th Century (3) Poetry, drama, and prose fiction in Spain from the Generation of 1898 through the contemporary period.

4081 Modern Spanish Prose Fiction in Translation (3) Credit not applicable toward a major in Spanish. Taught in English; knowledge of Spanish not required. Selected outstanding novels and short stories of modern Spanish literature from the 16th- and 17th-century Spanish-American literature to the present; includes The Life of Lazarillo de Tormes and works by Cervantes, Pérez Galdós, Ugamuno, Valle-Inclán, Pérez de Ayala, Cela, Laforet, and Gironella.

4082 Modern Spanish-American Prose Fiction in Translation (3) Credit not applicable toward a major in Spanish. Taught in English; knowledge of Spanish not required. Selected outstanding Spanish-American prose works by García Márquez, Cortázar, Fuentes, Carpenter, and Borges.

4141 Spanish-American Literature: Colonial to the Romantic Period (3) Prereq: SPAN 3041 or equivalent. Spanish-American literature from the early chronicles to the romantic period.

4142 Spanish-American Literature: Romantic Period to 1930 (3) Prereq: SPAN 3041 or equivalent. Spanish-American literature from the romantic period to 1930.

4143 Spanish-American Literature: 1930 to the Present (3) Prereq: SPAN 3041 or equivalent. Spanish-American literature from 1930 to the present.

4166 Spanish Phonetics (3) Spanish phonetic systems; corrective and fluency drills in the language laboratory; problems of teaching Spanish pronunciation to English-speaking students.

4160 Spanish Linguistics (2) Prereq: SPAN 2061. Structure of the Spanish language and its application in the classroom.

4915 Independent Research in Spanish or Spanish-American Literature (1-3) May be repeated for a max. of 3 sem. hrs. credit. Readings in Spanish or Spanish-American literature directed by a senior faculty member.

4917 Independent Research in Spanish or Spanish-American Linguistics (1-3) May be repeated for a max. of 3 sem. hrs. credit. Readings in Spanish or Spanish-American linguistics.
7003 Readings in Old Spanish Literature (3) Spanish literature of the 13th, 14th, and 15th centuries.
7941 to 7945 Seminar in Spanish-American Literature (3 each)
7941 Colonial Literature
7942 Romanticism and Realism-Naturalism
7943 Modernism
7944 Poetry of the 20th Century
7945 20th-century Prose
7952 to 7955 Seminar in Golden Age Drama (3 each)
7952 Spanish Dramatists before Lope de Vega
7953 Lope de Vega
7954 Tirso de Molina, Alarcón, and other Contemporaries of Lope
7955 Calderón and his Contemporaries.
7960 Special Topics in Language and Peninsular and Spanish-American Literature (3) When topics vary, may be repeated for a max. of 6 sem. hrs. for the master's degree and 9 sem. hrs. for the doctorate. Topics to be announced.

**SPEECH COMMUNICATION (SPCM)**

1061 Speech Fundamentals (3) May not be taken by students who have credit for SPCM 2060. An honors course, SPCM 1062, is also available. Selection of subjects; gathering materials; structure, style, and vocal and physical attributes of delivery; practice in communicative speaking.

1062 HONORS: Speech Fundamentals (3) Same as SPCM 1061, with special honors emphasis for qualified students (students with ACT scores which qualify for ENGL 1003 and students with 3.00 cumulative GPA).

1700 Introduction to Broadcast Media (3) Y See JOUR 1700.

2010 Interpersonal Communication (3) Theories and research in human communication; one-to-one interactions.

2012 Introduction to Film (3) Nature and function of film as a mode of communication; film theory and criticism; historical and technological development of the film industry; selected films screened and studied.

2040 Interpretable Reading (3) Reading literature aloud intelligently, with naturalness and individuality.

2060 Public Speaking (3) Theory and skills needed by the effective communicator and critical consumer of speech; analysis of other speakers and practice in public speaking.

2061 Speech Communication for Business and the Professions (3) For students in the professional colleges, particularly the College of Business Administration. Speech communication used in business and professional organizations; proposal presentations, group decision making, parliamentary procedure and interviewing.

2063 Argumentation and Debate (3) Prereq: SPCM 1061 or 2060. Principles of argumentation and debate; analysis, briefing, evidence, reasoning, and refutation; debating on vital questions.

2064 Discussion and Conference Speaking (3) Aspects of group leadership; group discussion and the problems of communication in human relations.

2065 Parliamentary Law (1) Standard parliamentary practices by which self-governing groups determine their courses of action; basic philosophy underlying parliamentary procedures.

2200 Practicum in Speech Communication (1) Prereq: consent of instructor. May be repeated for credit for a max. of 3 sem. hrs.; however, no more than a total of 3 sem. hrs. in SPCM 2200 and 4200 may be taken for undergraduate credit. May not be used to satisfy an area requirement for majors. Pass/fail grading. Practical experience in major departmental activities outside the classroom under direct faculty supervision.

2720 Radio Production (3) F,S 2 hrs. lecture; 3 hrs. lab. See JOUR 2705.

2862 HONORS: Contemporary Public Address (3) Effectiveness of public address in contemporary society; limitations on free speech; influence of mass communications on public address; rhetorical practices in politics, education, religion, business, and minority and pressure groups.

3012 History of Film (3) Film as a mode of communication and an artistic form from 1895 to the present; classic films screened and studied.

3040 Advanced Interpretation of Literature (3) Prereq: SPCM 2040. Analysis and performance of selected short stories and poems.

3107 Rhetoric of the Contemporary Media (3) Various forms of media (television, pulp novels, pop music); their promotion of cultural values and modes of conduct; study of major rhetorical critics and theorists.

3700 Telecommunications Law, Regulation, and Public Policy (3) V See JOUR 3700.

3710 Telecommunications History (3) V See JOUR 3710.

3720 Television Production and Directing (3) F,S 2 hrs. lecture; 3 hrs. lab. See JOUR 3720.

3900 Selected Topics in Speech (3) Prereq: consent of instructor. May be taken twice for credit. Topics will vary; consult Schedule of Classes for current offering.

4012 Problems in the Use of Language: Symbolic and Communicative Behavior (3) Misunderstandings in interpersonal relationships; more effective communication.

4100 Political Communication (3) Factors and strategies in contemporary political communication in the U.S.; emphasis on electronic communication, candidates and images, campaign management, speechesmaking, and advertising; study of recent and current elections.

4101 Communication in Organizations (3) Not a performance course. Speech communication theory and practice in
organizations; research used to identify and solve communication problems; analyses of organizational communication.

4113 Advanced Discussion (3) For teachers and directors of discussion, people in industry, and other advanced students.

4114 Contemporary Theories of Communication (3) Current methods and theories of human communication; research literature; behavioral antecedents and consequences of messages and their variations; how messages interact with communicators to produce behavioral outcomes.

4119 Nonverbal Communication (3) Prereq: SPCM 2010 or equivalent. Nonverbal message systems such as kinesics and proxemics; relationship between nonverbal and verbal communication.

4140 Interpretation of Literature (3) Poetic theory applied to oral presentation of poetry.

4141 Interpretation of Literature (3) Oral presentation of narrative and dramatic forms; techniques of adaptation and oral book reviewing.

4142 Oral Interpretation of Special Literary Texts (3) May be taken twice for credit when topics vary. Oral presentation of specific literary styles or periods.

4145 Readers' Theatre (3) Prereq: SPCM 4140 and 4141; or equivalent. Exploration of literature through group performance; theory and techniques for performing prose fiction, nonfiction, poetry, drama; script creation; staging techniques; performance design; directing the production.

4160 Persuasive Communication (3) Prereq: SPCM 1061, 2060, 2063, or equivalent. Nature of persuasive speaking.

4164 Advanced Argumentation (3) Prereq: SPCM 2063 or 4160 or equivalent. Argumentation in different types of speaking situations; trends in argumentation theory; argumentation in practice.

4165 History and Criticism of American Public Address (3) Prereq: SPCM 2060 or 2063 or 4160. American public address from colonial times to the present; speeches of outstanding American statesmen, lawyers, and clergymen and sources of their effectiveness.

4166 History and Criticism of British Public Address (3) Prereq: SPCM 1061, 2060, 2063, or 4160. British public address from the 18th century to the present; speeches of outstanding British statesmen from Pitt to Churchill.

4167 Contemporary Rhetorical Theory (3) Prereq: SPCM 1061 or 2060 or 4160 or equivalent. Developments in rhetoric from contemporary theoretical and critical perspectives; key concepts in the philosophy of rhetoric.

4170 Television and Radio Writing (3) V See JOUR 4170.

4200 Practicum in Speech Communication (1) Prereq: consent of instructor. May be repeated for a max. of 3 sem. hrs. credit; however, no more than a total of 3 sem. hrs. of SPCM 2200 and 4200 may be taken for undergraduate credit. May not be used to satisfy an area requirement for undergraduate majors; may not satisfy minimum course requirements for graduate degrees. Pass-fail grading. Practical experience in major departmental activities outside the classroom under direct faculty supervision.

4710 Broadcast Management (3) V Prereq: JOUR 1700. See JOUR 4710.

4720 Broadcasting and Society (3) F See JOUR 4720.

4730 Advanced Television Production and Directing (3) V Prereq: JOUR 3720 and consent of instructor. See JOUR 4730.

4971 Special Topics in Mass Communication (3) V Prereq: consent of instructor. See JOUR 4971.

7900 Introduction to Graduate Study in Speech (3) Required of all master's students and of doctoral students on advice of their major professors.

7902 Independent Research: Speech Education (1-3) Prereq: consent of instructor. May be repeated for a max. of 6 sem. hrs. credit. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7910 Seminar in Interpersonal Communication Theory (3) Prereq: SPCM 4012 or equivalent. May be repeated for a max. of 6 hrs. credit. Current theoretical approaches to interpersonal communication, including developmental approaches, cognitive and relational theories.

7911 Modern Trends in Speech Communication (3)

7913 Seminar: Contemporary Theories of Speech Communication (3) Prereq: SPCM 4114 or equivalent. May be taken twice for credit when topics vary. Criticism, interpretation, and validation of specific theories in speech communication; different theoretical perspectives.

7915 Seminar: Research in Communication Theory (3) Prereq: SPCM 4114 or equivalent. May be repeated for a max. of 9 sem. hrs. credit. Research literature on advanced topics in communication theory.

7916 Independent Research: Communication Theory and Research (1-3) Prereq: consent of instructor. May be repeated for a max. of 6 sem. hrs. credit. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7941 Seminar: History and Theory of Interpretation (3)

7942 Independent Research: Interpretation (1-3) Prereq: consent of instructor. May be repeated for a max. of 6 sem. hrs. credit. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7945 Seminar: Contemporary Theories and Research in Oral Interpretation (3) Prereq: SPCM 4140 or 4141 or 4142 or equivalent. May be taken twice for credit when topics vary. Topics related to solo and group performance, criticism and evaluation of performed literature, and interrelationships of literary and performance theory.

7961 Seminar: Evolution of Rhetorical Theory, Classical Period (3)

7962 Seminar: Rhetorical Criticism (3) Prereq: consent of instructor. Types of speech criticism, criteria, and measures of effectiveness of public address.

7963 Seminar on Southern Oratory (3) Prereq: SPCM 4165 and 7962. Oratory of the South from about 1860 to the present; significant speakers of a given historical period (students select period studied).

7964 Seminar: Evolution of Rhetorical Theory, British and American (3) Developments in rhetorical theory in Britain and America from about 1529 to the present; discussion of major works by Campbell, Blair, Whately, and Kenneth Burke.

7965 Independent Research: Rhetoric and Public Address (1-3) Prereq: consent of instructor. May be repeated for a max. of 6 sem. hrs. credit. For advanced graduate students who wish to pursue research on problems exclusive of thesis or dissertation.

7966 Problems in Rhetorical Theory, Criticism, and History (3) Prereq: at least 12 hrs. (four courses) in public address. May be repeated for a max. of 6 sem. hrs. credit. Selected problem which goes beyond present advanced course offerings in public address; topic to be announced.
8000 Thesis Research (1-12 per sem.) ‘S’/‘U’ grading.

SYSTEMS SCIENCE (SYSC)

7090 Systems Science Design Project (1-9) Prereq: minimum of 12 sem. hrs. earned toward the systems science degree. Individual design, development, implementation, and documentation of a project applying systems techniques, possibly involving computing, to a problem in the student’s specialization.

8000 Systems Science Thesis Research (1-12 per sem.) ‘S’/‘U’ grading.

THEATRE (THTR)

1020 Introduction to Theatre (3) The arts of the theatre and its artists; acting, directing, costume and scenic design; playwriting, architecture.

1021 HONORS: Introduction to Theatre (3) Same as THTR 1020, with special emphasis for qualified students.

1025 Acting: Improvisation (3) Exploration, through theatre games and movement training, of the actor’s problems of intention, listening, physical expression of emotion, concentration, and mime.

1029 Stage Movement—I (3) Prereq: THTR 1025. 2 hrs. lec; 2 hrs. lab. Beginning stage movement for the actor, including flexibility, realignment, spatial awareness, gesture and body composition, and physical characterization.

2022 Introduction to Play Production (3) Prereq: concurrent registration in THTR 2026. Acting, directing, staging, lighting, costinguming, and other aspects of producing a play.

2023 Stage Makeup (1) Fundamentals of straight and character makeup; laws governing line, color, light, and shade; practical experience in makeup through various productions.


2026 Theatre Practicum—I (1) Prereq: consent of instructor. May be repeated for credit for a max. of 3 sem. hrs. No more than a total of 3 sem. hrs. of THTR 2026 and 4136 may be taken for undergraduate credit. Participation in performance or production of a play produced by the University Theatre.

2027 Stage Speech: Basic Techniques (3) Development and refinement of voice, breath control, phonation, and articulation to meet theatre performance standards.

2028 Introduction to Dramatic Form (3) Comedy, tragedy, and melodrama through a study of representative modern plays.

2029 Stage Movement—I (3) Prereq: THTR 1029; 2 hrs. lec; 2 hrs. lab. Continuation of THTR 2029 plus specialized activities in character types, rhythm and tempo, mask work, mime and stage combat.

3024 Fundamentals of Theatre Technology (3) Prereq: THTR 2022 and concurrent registration in either THTR 2026 or THTR 4136. Topics include arts management, stagecraft, stage management, costume construction, and sound and lighting technology.

3025 Advanced Acting (3) Prereq: THTR 2025. Characterization and scene work.

3027 Stage Speech: Dialects (3) Prereq: THTR 2027. Continued development of the actor’s vocal craft; foreign and American dialects.

3900 Selected Topics in Theatre (3) Prereq: consent of instructor. May be taken twice for credit. Topics will vary, consult Schedule of Classes for current offering.

4024 Directing—I (3) Prereq: THTR 2022, 2025, and 2028; or equivalent. Director’s problems of script analysis, characterization, and scene visualization.

4025 Acting: Scene Study (3) Prereq: THTR 3025 and consent of instructor. Technique of developing an actor’s score for a role.

4027 Playwriting (3) Theory and craft of dramatic writing and exploration of the playwright’s resources; writing plays for experimental production in the workshop program.

4120, 4121 Drama for the Actor, Director, and Playwright (3,3) Analysis of selected modern plays; dramatic structure, acting possibilities, and directing problems.

4122 History of Costume (3) Historical style of costumes and adaptation of these to stage use; basic principles of cut and construction of stage costumes.

4123 Costume Design (3) Principles of design related to stage costumes; design research, creative interpretation; adapting costumes to theatrical styles of production; inspiration from designs of the past.

4124 Scenic Design (3) Basic principles of scenic design for the theatre; form, style, color, and lighting; sketches, renderings, and models.

4125 Directing—II (3) Prereq: THTR 4024 or equivalent. Principles of play selection, concept formulation, casting, rehearsal, and directing plays and scenes in workshop performance.

4126 History of the Theatre (3) Prereq: THTR 1020, 2022, 4120, 4121, or 4125. Historical development of the theatre from the Greeks to 1650.

4127 Styles of Acting (3) Prereq: THTR 2025 and 3025. Fundamental techniques of acting; acting styles required by plays of the Greek, neoclassical, Elizabethan, and modern periods.

4128 History of the Theatre—I (3) Historical development of the theatre from 1650 to 1870.

4129 History of the Theatre—II (3) Historical development of the theatre from 1870 to the present.

4130 The Development of Dramatic Art (3) Dramatic forms and their production styles from the time of Aeschylus to the advent of Ibsen.

4131 Seminar: Contemporary Theatre and Drama (3) Su May be taken twice for credit. Selected topics in the contemporary theatre.

4133 Technology of Stage lighting and Sound (3) Prereq: concurrent registration in THTR 4136. Technology of the
4134 Advanced Scenery Construction (3) Prereq: THTR 3024 or equivalent. 2 hrs. lecture; 2 hrs. lab. An advanced examination into the construction of both theatrical non-theatrical scenery.

4135 Structures and Materials for the Stage (3) Prereq: THTR 3024 or equivalent. A detailed study of structural methods and materials available to the theatre technician.

4136 Theatre Practicum—II (1) Prereq: consent of instructor. May be repeated for a max. of 3 hrs. credit. No more than a total of 3 hrs. of THTR 2026 and 4136 may be taken for undergraduate credit. Participation in performance or production of a play produced by the University Theatre.

4137 Technical Management and Supervision for the Stage (3) Prereq: THTR 2022 or equivalent. Projects and problems in technical management and supervision for the professional, repertory, and educational theatre.

4227, 4228 Voice for the Actor—I, II, (3, 3) Prereq: admission to the M.F.A. program. 2 hrs. lecture; 2 hrs. lab. (I) Development of vocal process through exercises in relaxation, alignment, and breathing. Basics in speech articulation and elimination of regionalisms; (II) Further development of the actor's resonance, pitch, range, and articulation. Improvisations with texts.

4434, 4435 Scene Painting—IA, IB (3, 3) Prereq: THTR 4124 or equivalent. 1 hr. lecture; 4 hrs. lab. (IA) Contemporary scene painting for the stage; emphasis on tools, materials, basic techniques and color theory; (IB) Advanced projects.

4437 Period Style for the Theatre Designer—I (3) Style and aesthetics of western art, architecture, fashion, and furniture; emphasis on eras of major playwriting from the Greek Period through early Baroque.

4438 Period Style for the Theatre Designer—II (3) Style and aesthetics of western art, architecture, fashion, and furniture; emphasis on eras of major playwriting from Classic Baroque to the present.

4530 Sound Design (3) Prereq: THTR 4133 or equivalent. 2 hrs. lecture; 2 hrs. lab. Sound design principles and techniques; their effect on production.

4531 Lighting Design—I (3) Lighting design for the theatre; emphasis on script analysis, production concepts and visual ideas.

4820 Stage Management (3) Prereq: THTR 2022, 3024, and 4024, or equivalent. The art and craft of stage managing and how it relates to the production organization.

4830 Technical Drafting for Theatre (4) 2 hrs. lecture; 2 hrs. lab. Drafting conventions and techniques used for depicting common scenic elements.

4831 Scenographic Drafting (4) Prereq: THTR 4830 or equivalent. 2 hrs. lecture; 4 hrs. lab. Preparation of a complete set of drafting for accurate presentation of set design.

7220, 7221 Acting Studio—I, IA, IB, (5, 5) Prereq: admission into M.F.A. acting program. 4 hrs. lecture; 2 hrs. lab. (IA) Intensive work in actor's basic tools; text analysis; comprehensive Stanislavskian technique and characterization; (IB) Emphasis on scene work from the modern repertoire; auditioning.

7222, 7223 Acting Studio—IIA, IB (4, 4) Prereq: THTR 7221. (IIA) Acting demands of Greek and Shakespearean drama; scene work with selected texts; (IB) Acting demands of commedia dell'arte, comedy of manners, and farce; scene work with selected plays.
7521, 7522, 7523 Advanced Costume Design—I, II, III (4, 4, 4) Prereq: admission to M.F.A. design technology program or consent of instructor. 3 hrs. lecture; 2 hrs. lab. (I) Preparation of advanced costume design projects; emphasis on script analysis, characterization, and problem solving; (II) Emphasis on designing entire production projects to achieve unity, coherence, and style; (III) Emphasis on ballet, opera, and musical theatre.

7524 Advanced Costume Technology—I (4) Prereq: admission to M.F.A. design technology program or consent of instructor. 2 hrs. lecture; 4 hrs. lab. Advanced problems in the planning and construction of historical costumes for the theatre with an emphasis on pattern drafting and draping.

7525, 7526, 7527 Advanced Costume Technology—II, III, IV (3, 3, 3) Prereq: admission to M.F.A. design technology program or consent of instructor. (II) Advanced planning and construction of costumes for the theatre; emphasis on historical construction, cutting, and tailoring; (III) Emphasis on selection, modification, and preparation of fabrics for stage costumes; (IV) Emphasis on costume accessories including millinery, footwear, armor, and jewelry.

7623, 7624 Theatre Technology Seminar—IA, IB (3, 3) Prereq: admission to M.F.A. design technology program. (IA) Advanced techniques used on stage and in the scene shop; (IB) Techniques using electronics and stage lighting.

7625, 7626 Theatre Technology Seminar—IIA, IIB (3, 3) Prereq: admission to M.F.A. design technology program. (IIA) Emphasis on theatre architecture and theatrical consulting; (IIB) Emphasis on roles and responsibilities of the technical director and on preparation to enter the professional world.

7630 Directed Professional Internship (1-9) Prereq: third-year status in theatre M.F.A. program. 2-18 hrs. lab; Pass-fail grading. A theatre related internship with a professional organization or business (lighting manufacturer, professional theatre, computer company).

7721 Lighting Design—II (3) Prereq: admission to M.F.A. design technology program or consent of instructor. Process of lighting design, lighting equipment and assistant designer skills.

7722, 7723 Lighting Design—III, IV (4, 4) Prereq: THTR 7721 or equivalent. 3 hrs. lecture; 2 hrs. lab. (III) Elements of lighting design explored through use of the light lab; (IV) Complete presentations of lighting designs for various types of productions.

7900 Introduction to Graduate Study in Theatre (3) Prereq: admission to the M.A./Ph.D. program in theatre. Research and bibliographic skills for students of theatre history, dramatic literature, theory and criticism.

7921 Practicum in Theatre Directing (3) 2 hrs. lecture; 3 hrs. lab. May be taken twice for credit. A specific theatrical form and style studied through research, direction of a one-act play, and participation in a specific University Theatre production.


7927, 7928 Problems in Theatre History (3, 3) Each course may be taken twice for credit. Study of a selected figure, period, or trend in the history of the theatrical arts.

7929 Independent Research: Theatre (1-3) Prereq: consent of instructor. May be repeated for a max. of 6 sem. hrs. credit. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7930 Theatre Production (1-6) Prereq: admission to M.F.A. theatre program. 2-12 hrs. lab. Major acting, directing, design, or technical responsibility for one or more LSU productions.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.

UNIVERSITY (UNIV)

Special courses of timely and general interest are offered as "University" courses. These courses are interdisciplinary, broad in scope, and centered on topics of current concern. "University" courses have been offered on such topics as "Water and Louisiana" (1983), "Sports and the Law" (1986), and "The Constitution Then and Now" (1987). Each course carries undergraduate credit of one to three semester hours. Acceptance of such credit toward fulfillment of degree requirements is decided by the faculty of each college or school within the University.

Specific "University" courses are not offered more than twice and may be taken on a pass-fail basis, subject to the usual guidelines for pass-fail work. The topic, credit, and class time of each University course are announced by the Office of Academic Affairs prior to the beginning of the semester in which the course is to be taught.

VETERINARY ANATOMY (VAN)

7001 Seminar: Veterinary Anatomy and Fine Structure (1) May be repeated 8 times for credit. Pass-fail grading. Reports and discussions on topics of current interest in various subdisciplines of veterinary anatomy.

7002 Veterinary Anatomical Research Techniques (1-4) May be repeated for a max. of 6 sem. hrs. credit. Specialized research techniques related to a specific subdiscipline of veterinary anatomy.

7003 Special Topics in Veterinary Anatomy (1-4) Prereq: consent of instructor. May be repeated for a max. of 8 sem. hrs. credit. Specialized coverage of a variety of topics of current interest in veterinary anatomy.

7105 Ultrastructural Cytology (3) S Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Fine structure of animal cells and cell products; relationships of ultrastructure to function; interpretation of chemical-physical reaction.

7106 Electron Microscopy—Veterinary Medical Applications (3) S Prereq: credit or registration in ZOOL 7701 or consent of instructor. 1 hr. lecture; 6 hrs. lab. Preparation of companion, food, laboratory, and exotic animal tissues including biopsies for transmission and scanning electron mi-
croscope; operation of S-150 SEM, EM-10, and EM-109 TEM's and ancillary equipment.

7107 Macroscopic Anatomy of the Dog (6) F Prereq: consent of instructor. 3 hrs. lecture; 9 hrs. lab. May not be taken by students who have credit for VMED 5131. Systematic dissection (accompanied by lectures) of the dog.

7108 Comparative Macroscopic Anatomy of Domestic Animals (4) S Prereq: VAN 7107. 2 hrs. lecture; 6 hrs. lab. May not be taken by students who have credit for VMED 5141. Systematic dissection (accompanied by lectures) of the horse, ruminants, laboratory species, and chicken.

7109 Advanced Macroscopic Anatomy (1-3) Prereq: VAN 7107 or consent of instructor. May be repeated for credit when topics vary. Specialized dissection of one or more of the following: dog, horse, ruminants, laboratory, exotic, or avian species.

7110 Developmental and Microscopic Anatomy—I (4) F Prereq: consent of instructor. 3 hrs. lecture; 4 hrs. lab. May not be taken by students who have credit for VMED 5132. Developmental and microscopic organology of the pulmonary, musculoskeletal, cardiovascular, integumentary, and urinary systems.

7111 Developmental and Microscopic Anatomy—II (3) S Prereq: VAN 7110. 2 hrs. lecture; 3 hrs. lab. May not be taken by students who have credit for VMED 5142. Developmental and microscopic organology of the digestive, lymphatic, endocrine, and reproductive systems.

7112 Advanced Microscopic Anatomy (1-3) Prereq: VAN 7110 and 7111; or consent of instructor. May be repeated for credit when topics vary. Comparative or systemic microscopic organology of selected organs or organ systems of domestic, laboratory, or exotic species.

7114 Correlative Neuroanatomy (2) S Prereq: VAN 7107, 7110, and consent of instructor. May not be taken by students who have credit for VMED 5145. Neuroanatomy of selected domestic and laboratory species.

7121 Orthopedic Anatomy (3) V Prereq: VAN 7107 or equivalent and D.V.M. degree. 2 hrs. lecture; 3 hrs. lab. Basic and applied principles of the anatomy of the musculoskeletal system.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

VETERINARY MEDICINE (VMED)

Courses in the professional curriculum are designated as "Veterinary Medicine" (VMED) courses rather than departmental courses because of the integration of the disciplines. These courses, all at the 5000 level, are described in the School of Veterinary Medicine Bulletin. Prerequisite for enrollment in these courses is formal admission to the professional curriculum in the School of Veterinary Medicine. All courses must be taken in the proper sequence, as each is a prerequisite for the succeeding course.

The following course is utilized by all options in the Veterinary Medical Sciences graduate program.

7001 Seminar: Veterinary Medical Sciences (1) May be taken 8 times for credit. Reports and discussions on topics of current interest in various disciplines of veterinary medicine.

VETERINARY MICROBIOLOGY AND PARASITOLOGY (VMP)

7001 Seminar: Veterinary Microbiology and Parasitology (1) Reports and discussions of new developments in veterinary bacteriology, immunology, parasitology, and virology; emphasis on infectious disease research.

7002 Veterinary Medical Research Techniques (1-4) Specialized research techniques related to a specific discipline of veterinary medicine.

7003 Special Topics in Veterinary Medicine (1-4) Specialized coverage of a variety of topics in veterinary medicine.

7004 Pathogenic Mechanisms of Bacteria (3) S-E Prereq: MBI 4121, 4122 and BCH 4094 or equivalent. Relation of bacterial structure and function to the induction of disease; virulence factors, mechanisms of host-parasite interaction; vaccine strategies.

7045 Bacterial Pathogenesis Laboratory (1-3) V Prereq: credit or concurrent registration in VMP 7422 or equivalent. 2-6 hrs. lab. May be repeated for a max. of 6 hrs. credit. Laboratory techniques for selected topics in bacterial pathogenesis.

7100 Mechanisms in Cytocidal Viral Infections (3) E Prereq: introductory virology and immunology or consent of instructor. Mechanisms of disease induction by viruses which cause lethal changes in infected host cells; effects of infecting viruses and host responses to them.

7111 Pathogenesis of Persistent Viral Infections (3) O Prereq: introductory virology and immunology or consent of instructor. Mechanisms of disease induction by viruses which persist in the host in spite of host responses.

7142 Cellular Immunology (2) O Prereq: introductory course in immunology or consent of instructor. Mechanisms of cell-mediated immunity; interactions between the cells of the immune system and effect of humoral factors on their function.

7143 Cellular Immunology Laboratory (1-3) O Prereq: credit or registration in VMP 7412 or equivalent. 2-6 hrs. lab. Laboratory techniques for isolation, identification, and functional testing of cells of the immune system.

7145 Current Experimental Methods in Parasitology (1-4) Prereq: a course in parasitology or equivalent. 2-8 hrs. lab. May be repeated for a max. of 4 sem. hrs. when animal groups vary. Specialized laboratory methods used to produce experimental infections, diagnose parasitism and recover and identify protozoan and helminth parasites of ruminants, horses, pigs, and companion animals.

7147 Host Responses to Parasitic Infections (3) Prereq: parasitology and immunology or equivalent. Immunologic and pathologic responses of vertebrate animals to protozoan and helminth parasites; currently accepted basic concepts and research; emphasis on parasites of veterinary and medical significance.

7149 Population Dynamics and Ecology of Parasitic Diseases (3) Prereq: a course in parasitology or equivalent. 2 hrs. lec.; 3 hrs. lab. Population regulation and distribution of
helminths and protozoa of veterinary and medical significance; currently accepted concepts for measuring disease risk in populations and for deriving control strategies based on published population models, transmission dynamics, climate, nutrition, immunity and other factors; laboratories on specific parasite systems and student projects.

7421 Animal Parasites Transmissible to Man (2) Prereq: consent of the instructor. 2 hrs. lecture/discussion. Emphasis on animal parasites involving food, companion, and wild animals to refer to those of importance in Louisiana.

7424 Diseases of Aquatic Animals (3) Prereq: consent of instructor. Basic microbiology and/or parasitology strongly recommended. 2 hrs. lecture; 2 hrs. lab. Same as FISH 7424.

7426 Antimicrobial and Chemotherapeutic Agents (3) V Prereq: introductory microbiology and biochemistry. 2 hrs. lecture; 2 hrs. lab. Mechanism of action; structure/function of antimicrobial and chemotherapeutic agents.

7428 Molecular Immunology (2) E Prereq: introductory course in immunology or consent of instructor. Humoral factors of immune reactions; their origin, species variation, functions, interactions with the antigens and cellular elements of immune response.

7429 Molecular Immunology Laboratory (1-3) E Prereq: credit or registration in VMP 7428 or equivalent. 2-6 hrs. lab. Laboratory techniques for studying humoral factors of immune reactions, their quantitation, identification, purification, and other in vitro testing.

7430 Veterinary Clinical Immunology (3) V Prereq: D.V.M. degree and a course in immunology; or consent of instructor. 2 hrs. lecture; 3 hrs. lab. For graduate students and residents. Clinical and laboratory diagnosis and treatment of immunologically mediated and selected infectious diseases; laboratory tests of clinical immunology and serology.

7432 Cell and Organ Culture Techniques in Biomedical Research (3) S Prereq: MBIO 4180 or consent of instructor. 1 hr. lecture; 4 hrs. lab. Application of cell and organ culture techniques to current research problems.

8000 Thesis Research (1-12 per sem.) ‘‘S’’/‘‘U’’ grading.

8900 Predissertation Research (1-9) May be repeated for a max. of 9 sem. hrs. credit.

9000 Dissertation Research (1-12 per sem.) ‘‘S’’/‘‘U’’ grading.

VETERINARY PATHOLOGY (VP)

The D.V.M. degree is a prerequisite for the following courses.

7001 Seminar: Veterinary Medical Sciences (1) Reports and discussion of topics of current interest in various disciplines of veterinary medicine.

7002 Veterinary Medical Research Techniques (1-4) Specialized research techniques related to a specific discipline of veterinary medicine.

7003 Special Topics in Veterinary Medicine (1-4) Specialized coverage of a variety of topics of current interest in veterinary medicine.

7501 Cellular Pathology (3) V Prereq: consent of instructor. Basic mechanisms of disease; pathogenesis and etiology of lesions and how they are expressed microscopically, histochemically, biochemically, and electron microscopically.

7502 Advanced Veterinary Pathology (5) V Prereq: consent of instructor. 2 hrs. lecture; 6 hrs. lab. Study of diseases by organ systems, using electron and light microscopy; pathogenesis of specific diseases stressed.

7504 Necropsy Techniques (1-4) F,S,Su Prereq: consent of instructor. Necropsy of animals submitted to the department; case work-up includes light microscopy of animal tissues, biochemical and hematological evaluations necessary for an accurate diagnosis, and completion of gross and microscopic descriptions.

7505 Advanced Clinical Pathology (4) V Prereq: consent of instructor. 2 hrs. lecture; 4 hrs. lab. Hematology, urinalysis, serum profile testing, exfoliative cytology, and genetic analysis.

7507 Avian Histopathology (2) V Prereq: consent of instructor. 1 hr. lecture; 2 hrs. lab. Histopathologic aspects of metabolic, toxic, and infectious diseases of avian species.

7508 Histopathology Slide Conference (1) Prereq: consent of instructor. May be taken 4 times for credit. Histopathological aspects of diseases in various animal species; direct student participation in morphological description and literature review.

7509 Surgical Pathology (1-3) Prereq: consent of instructor. May be repeated for a max. of 8 sem. hrs. credit. Gross and microscopic examination of surgery-derived specimens of diseased tissues from domestic and exotic animals; clinical case interpretation, histopathological description, diagnosis, prognosis, and consultation techniques.

7510 Clinical Pathology Laboratory (1-4) May be repeated for credit. Evaluation of hematological, cytological, and clinical chemistry specimens from domestic animals, wildlife, and exotic animals; consultation with clinicians and students on case material interpretation; experience in the daily management of a veterinary clinical pathology laboratory.

8000 Thesis Research (1-12 per sem.) ‘‘S’’/‘‘U’’ grading.

8900 Predissertation Research (1-9) May be repeated for a max. of 9 sem. hrs. credit.

9000 Dissertation Research (1-12 per sem.) ‘‘S’’/‘‘U’’ grading.

VETERINARY PHYSIOLOGY, PHARMACOLOGY, AND TOXICOLOGY (VPT)

2001 Introduction to Pharmacology (3) F,S Prereq: CHEM 1201 and 1202; and either BIOL 1001 or ZOOL 1001. Basic concepts; absorption, distribution, mechanism of action, and excretion of drugs; classification of therapeutic compounds based on their mechanisms and sites of action in mammalian hosts; classical therapeutic applications.

4001 Fundamentals of Toxicology (3) F Prereq: senior standing with 8 hrs. of chemistry and 8 hrs. of biological sciences. Fundamental principles of toxicology related to mammalian systems; major groups of toxic agents, the pathophysiology they elicit, and applications of toxicology.

7001 Seminar: Veterinary Medical Sciences (1) May be
Veterinary Medical Research Techniques (1-4) May be repeated for a max. of 6 hrs. credit. Specialized research techniques related to a specific discipline of veterinary medicine.

7001 Special Topics in Veterinary Medicine (1-4) Prereq: consent of instructor. May be repeated for a max. of 8 sem. hrs. credit. Specialized coverage of a variety of topics of current interest in veterinary medicine.

7002 Comparative Pharmacology (4) F Prereq: vertebrate physiology, biochemistry, or equivalent. 2.5 hrs. lecture; 0.5 hrs. lab. Comparative medical study of pharmacology; mechanism of action of drugs, pharmacodynamic principles, and therapeutic utility of major classes of drugs.

7061 Advanced Veterinary Physiology of Special Homeostatic Mechanisms (5) F Prereq: consent of instructor. 4 hrs, lecture; 3 hrs. lab. Physiological mechanisms underlying the cardiovascular, pulmonary, renal, and reticuloendothelial systems; emphasis on system control.

7611 Advanced Veterinary Physiology of Digestive, Endocrine, and Reproductive Systems (5) S 5 hrs. lecture. Physiological mechanisms underlying the digestive, endocrine, and reproductive systems; emphasis on system control.

7612 Advanced Veterinary Neurophysiology (2) S Prereq: VPT 7610 or equivalent. 1 hr. lecture; 3 hrs. lab. The nervous system; physiological mechanisms of the neuron and muscle; peripheral, autonomic, and central nervous systems; progression from simple to complex systems, with emphasis on integration of various components and systems.

7613 Metabolic Processes in Pharmacology and Toxicology (2) F-O Prereq: BCH 4087 and VPT 4001; or equivalent. Biochemical concepts applied to toxicology and pharmacology of the enzyme systems that modify xenobiotics either for activation or elimination.

7614 Central Nervous System Physiology (3) V Prereq: VPT 7612 or equivalent. Neurotransmitter mechanisms, chemistry, and distribution; neuropharmacology; synaptic physiology of selected brain regions.

7615 Pulmonary Physiology (3) V Prereq: VPT 7602. Mechanisms of action and applications of various drugs used in respiratory disorders.

7616 Methods in Neuroscience Research (2) V Prereq: VPT 7612 or consent of instructor. 1 hr. lecture; 3 hrs. lab. Theory and practice of electroencephalography, electromyography, averaged evoked potentials, electrode construction, stereotaxic surgery, lesioning, intracerebral stimulation and infusion, and other current techniques in neuroscience research.

7618 Organ System Toxicology (3) F-E Prereq: VPT 7604 or consent of instructor. Toxicology of major organs and systems (neurologic, hepatic, renal, pulmonary, and reproductive); concept of target organ toxicology with mechanistic study of the pathophysiology of classic toxicants.

7619 Principles of Safety Evaluation (2) S-O Prereq: EXST 7004, VPT 4001, and consent of instructor. Safety evaluation procedures employed by industry, government, and academia; practical application, utility, and limitations of common protocols for assessing adverse effects of chemicals on living systems.

7620 Comparative Metabolism of Environmental Pollutants (3) F Prereq: BCH 4084 or consent of instructor. Same as ENV 7200. Biochemical systems from various invertebrate, vertebrate, and plant species involved in the metabolic activation and detoxification of xenobiotic substances; use of these systems as biomonitor of pollution impact.


8000 Thesis Research (1-12 per sem.) "S"/'U" grading.

8900 Predissertation Research (1-9) May be repeated for a max. of 9 sem. hrs. credit.

9000 Dissertation Research (1-12 per sem.) "S"/'U" grading.

VETERINARY SCIENCE (VETS)

2000 Anatomy and Physiology of Farm Animals (3) F Anatomy and physiology of farm animals; important species differences.

3001 Herd Health and Disease Management of Domestic Farm Animals (3) S Herd health program of preventive medicine for farm livestock; disease processes, epidemiology, and rational approaches to therapeutic principles and control of diseases.
3002 Practical Work with Livestock (1) F,S 3 hrs. lab. Dehorning, castration, branding, methods of restraint, and methods for control of parasites.

4004 Poultry Sanitation, Diseases, and Parasites (3) S Prereq: MBIO 2051. Poultry diseases and parasites of economic importance.

**VOCATIONAL EDUCATION (VED)**

2001 Foundations of Vocational Education (3) F, Su 2 hrs. lecture; 2 hrs. lab. Overview of programs and practices; history, philosophy, and purposes of vocational education.

3201 Methods of Vocational Education Classroom Teaching (3) Prereq: VED 2001. Principles of teaching vocational education; emphasis on selection of materials and planning of instruction.

3601 Vocational Education Student and Program Evaluation (3) V Evaluation and assessment of progress of vocational students in psychomotor, cognitive, and affective skills.

4001 History of Vocational Education (3) F,S,Su-E Events and organizations which contributed to the development of vocational education.

4101 Course, Curriculum, and Program Development in Vocational Education (3) V Not for graduate credit. Curriculum development and evaluation processes used in vocational education programs, including those of varied cultural and socioeconomic groups.


4301 Vocational Assessment and Career Guidance (3) V Assessing present and future needs of the vocational education student; procedures used to evaluate student preferences, career potential, and occupational placement.

4504 Youth Leadership Development (3) F,S,Su Principles and practices in planning, organizing, and conducting youth organization activities.

4705 Education, Business, and Entrepreneurship (3) V Principles and strategies involved in establishing and operating small businesses; emphasis on resources available to aid the educator in bridging the gap between business and entrepreneurship.

4801 Student Teaching: Professional (3) V Must be taken in conjunction with both VED 4802 and 4803. Not for graduate credit. Professional responsibilities; teacher association work; teacher, parent, and student organization activities; school visits and certification.

4802 Student Teaching: Preparation (3) V Must be taken in conjunction with both VED 4801 and 4802. Ability of student to operate and maintain an instructional laboratory will be evaluated. Not for graduate credit. Development of curriculum materials for organizing and evaluating the teaching environment.

4803 Student Teaching: Delivery (3) V Must be taken in conjunction with both VED 4801 and 4802. Not for graduate credit. Evaluation of the student's lesson preparation, demonstration ability; laboratory organization and participation in class activities.

4809 Advanced Problems in Vocational Education (1-3) F,S,Su May be repeated for a max. of 6 sem. hrs. credit. Individual and group problems.

4023 Diseases of Game and Fur-Bearing Animals and Birds (3) S Important diseases and parasites of game animals and birds.

4041 Animal Physiology (3) F Physiology of farm animals.

7001 Principles of Practical Arts and Vocational Education (3) F,S,Su-O Practical arts and vocational education in programs below the baccalaureate level; relationships to career education, general education, and society.

7003 Philosophy of Vocational Education (3) S,Su-O Major philosophies which have influenced vocational education; philosophical approaches to problems in vocational education.

7101 Curriculum Development in Vocational Education (3) F Curricular patterns, problems of balance, scope, organization, sequence, selection, and articulation.

7201 Advanced Teaching Techniques in Vocational Education (3) S,Su Principles underlying the vocational teaching-learning process; use of effective vocational teaching methods and strategies.

7205 Teaching in Higher Education (3) F,S Methodology for effective college teaching; student motivation; planning for instruction, delivery, and evaluation.

7301 Orientation to the World of Work (3) Su See EDAF 7301.

7304 Vocational Education for Special-Needs Students (3) Su Regulations, issues, assessment, instruction, and special problems in vocational education for learners with special needs.

7332 Educational and Occupational Information (3) F,S Su Also offered as EDAF 7332. Classification and analysis of educational, occupational, and social information; occupational trends and surveys; use of occupational information by teachers, guidance counselors, and others.

7334 Vocational Counseling (3) S,Su-E See EDAF 7334.

7392 Advanced Vocational Counseling (3) Su See EDAF 7392.

7398 Field Experiences in Vocational Counseling (3) F,S,Su See EDAF 7398.

7401 Administration of Adult Vocational Education Programs (3) V Role of adult education as a component of vocational education in contemporary society; program conceptualization, needs assessment, program initiation, development, financing, administration, and evaluation.

7701 Organization and Administration of Vocational Education (3) S Principles of organization, leadership, and administration; development of skills needed for effective vocational education leadership.

7702 Supervision in Vocational Education (3) Su-E Principles of supervision in vocational teaching at local and state levels.

7703 Supervision of Professional Field Experiences in Vocational Education (3) F Philosophy, principles, and procedures in supervision of student teaching in vocational education.

7704 Time Management Techniques in Vocational Education (3) S Methods of planning and procedures for using time efficiently in conducting the vocational education program.
VOCATIONAL TRADE AND INDUSTRIAL EDUCATION (VTIE)

Approved trade experience is prerequisite to registration for all courses in vocatal trade and industrial education. The courses will be offered as demand justifies.

2070 Introduction to Vocational Trade and Industrial Education (3) V
2071 Safety Practices and Industrial Hygiene (3) V
2072 Principles of Teaching Vocational Trade and Industrial Education (3) V
2073 Preparation of Instructional Materials (3) V
2074 Vocational Selection and Placement (3) V

WILDLIFE (WILD)

2075 Occupational Analysis (3) V
2076 Management of Vocational Industrial Shops (3) V
2077 Testing in Vocational Trade and Industrial Education (3) V
3079 Apprentice Teaching in Vocational Trade and Industrial Education (8) V

7012 Ecology and Management of Waterfowl (3) F 2 hrs. lecture; 3 hrs. lab. Transportation fee. Waterfowl behavior; descriptions of breeding and wintering habitat; habitat and population management; descriptions of associated game species.

7013 Wildlife Population Dynamics (3) S-E 2 hrs. lecture; 2 hrs. lab. Theories of population growth and regulation; population interaction, life tables, mortality rate calculation; band data analysis; population modeling.

7018 Habitat Management Principles (3) S-O Principles of management applied to habitats, communities, populations, and species; habitat evaluation; endangered species; mitigation; global trends of habitat quality and change.

7029 Advanced Topics in Wildlife (1-4) V May be repeated for a max. of 6 sem. hrs. credit when topics vary.

7050 Wildlife Policy and Law Enforcement (3) V International treaties, federal and state laws affecting wildlife resources; current issues in wildlife and fisheries management, especially endangered species.

7070 Seminar (1) F,S,Su May be repeated for credit. Also offered as FISH 7070. Topics of current interest in wildlife management and fisheries biology.

8000 Thesis Research (1-12 per sem.) "S'"/"U" grading.
8900 Research Problems in Wildlife (1-3) May be repeated for credit. Pass-fail grading.
9000 Dissertation Research (1-12 per sem.) "S'"/"U" grading.
ZOOLOGY (ZOOL)

1001 Introductory Zoology (4) F,S 3 hrs. lecture; 3 hrs. lab. Credit will not be given for both this course and BIOL 1001 and 1003. Zoology majors must take ZOOL 1001 and 1002, not BIOL 1001, 1002, 1003, 1004.

1002 Introductory Zoology (4) F,S 3 hrs. lecture; 3 hrs. lab. Credit will not be given for both this course and BIOL 1001 and 1003. An honors course, ZOOL 1003, is also available.

1003 HONORS: Introductory Zoology (4) S Same as ZOOL 1002, with special honors emphasis for qualified students.

2015 Genetics and Society (3) See BOTY 2015.

2152 Comparative Anatomy of the Vertebrates (4) F,S Prereq: 8 sem. hrs. of introductory zoology. 2 hrs. lecture; 6 hrs. lab.

2153 Principles of Genetics (3) F,S Prereq: 6 sem. hrs. of biology or equivalent and enrollment or credit in CHEM 1202. For students majoring in science. Fundamental laws of heredity as applied to both plants and animals.

2154 Principles of Genetics Laboratory (2) Prereq: credit or registration in ZOOL 2153. 1 hr. lecture; 3 hrs. lab. Lab to accompany ZOOL 2153.

2160 Human Physiology (3) F,S May not be taken for credit by zoology majors or premedical students. Elements of human physiology; controls and functions of the various organ systems.

2161 Human Physiology Laboratory (1) F,S Prereq: credit or concurrent enrollment in ZOOL 2160 and one year of chemistry. 3 hrs. lab.

3090 Cell Biology (3) Prereq: 11 sem. hrs. of biological science and one year of chemistry. Also offered as BOTY 3090.

3156 Developmental Zoology (4) Prereq: 8 sem. hrs. of zoology and ZOOL 2153. 3 hrs. lecture; 3 hrs. lab. Combination of classical descriptive embryology and contemporary experimental theories focusing on the mechanisms of development in vertebrates and invertebrates.

3950, 3951 HONORS: Research for Honor Students in Zoology (2-4, 2-4) F,S,Su Prereq: 15 hrs. of zoology with a 3.00 gpa. 1 hr. conference; 3, 6, or 9 hrs. lab. May not be counted as a 3000-level course with laboratory.

4016 Introduction to Insect Physiology (3) S Prereq: 12 hrs. of ENTM or ZOOL; 1 yr. of organic chemistry or biochemistry. 2 hrs. lecture; 3 hrs. lab. Also offered as ENTM 4016.

4095 Marine Field Ecology (4) See MRSC 4095.

4104 Histology (4) F,S Prereq: 12 sem. hrs. of zoology or equivalent. 2 hrs. lecture; 6 hrs. lab.

4105 Parasitology (4) F Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 6 hrs. lab. Field service fee.

4121 Physiological Genetics (4) Prereq: ZOOL 2153 and 2154; or equivalent. 2 hrs. lecture; 6 hrs. lab. Laboratory based primarily on Drosophila and Neurospora.

4132 Eukaryotic Molecular Genetics (3) Prereq: ZOOL 2153; BCH 4094 recommended. Same as BOTY 4132 and MBIO 4132.

4140 Animal Evolution (3) Prereq: ZOOL 2153. Principles and processes in evolution of species and higher categories; emphasis on vertebrates.

4141 Mammalogy (4) F Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 6 hrs. lab. Field service fee. Biology of mammals; origins, adaptive radiations, and ecology.

4142 Ornithology (4) S Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 6 hrs. lab and field work. Field service fee.

4145 Ichthyology (4) F Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 6 hrs. lab and field work. Field service fee. Also offered as PISH 4145. Biology of fishes; evolution, classification, and ecology.

4146 Herpetology (4) Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 6 hrs. lab and field work. Field service fee. Taxonomy and natural history of amphibians and reptiles.

4149 Aquatic Invertebrate Zoology (4) Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 6 hrs. lab. Field service fee. Aquatic invertebrates; identification, distribution, and ecology.

4152 Protozoology (4) Prereq: 12 sem. hrs. of zoology or equivalent. 2 hrs. lecture; 6 hrs. lab. Cytological, ecological, and physiological phenomena of the protozoa.

4153 Principles of Ecology (4) F Prereq: 8 sem. hrs. introductory zoology, botany, or biology with lab. 3 hrs. lecture; 3 hrs. lab. Also offered as BOTY 4153. Fundamental ecological principles governing the structure and function of populations, communities, and ecosystems; comparative habitat ecology.

4154 Invertebrate Zoology (4) Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 6 hrs. lab. Field service fee.

4155 Environmental Physiology (4) Prereq: 12 sem. hrs. of zoology. 3 hrs. lecture; 3 hrs. lab. Physiological adaptations of animals to physical and chemical parameters of the environment.

4157 Cellular Physiology (4) F Prereq: 12 sem. hrs. of zoology; and organic chemistry. 3 hrs. lecture; 3 hrs. lab. Physiological systems in cells and tissues.

4158 Endocrinology (3) F Prereq: 12 sem. hrs. of zoology.

4160 Mammalian Physiology (4) F,S Prereq: 12 sem. hrs. of zoology; and organic chemistry. 3 hrs. lecture; 3 hrs. lab. Principles of mammalian systems physiology; emphasis on the human.

4162 Marine Communities (4) Prereq: ZOOL 4145 or 4154 or equivalent. 3 hrs. lecture; 3 hrs. lab and field work.

4177 Neurobiology (3) Prereq: 12 sem. hrs. of zoology and 1 year of organic chemistry. Principles of organization and function in nervous systems; molecular basis of behavior.

4190 History of Biology (2) Prereq: senior standing or consent of instructor.

4299 Genetics of the Evolutionary Process (3) See BOTY 4299.

4647 Marine Vertebrate Zoology (4 or 6) Su Prereq: 16 sem. hrs. of zoology including comparative anatomy. Six weeks (6 sem. hrs.) at Gulf Coast Research Laboratory, Ocean Springs, Mississippi, or 4-5 weeks (4 sem. hrs.) at Louisiana Universities’ Marine Consortium (LUMCON), Chauvin, Louisiana.
47. 4673 Marine Invertebrate Zoology (4 or 6) Prereq: 16 sem. hrs. of zoology. Six weeks (6 sem. hrs.) at Gulf Coast Research Laboratory, Ocean Springs, Mississippi, or 4-5 weeks (4 sem. hrs.) at Louisiana Universities' Marine Consortium (LUMCON), Chauvin, Louisiana. Biology of the marine representatives of all phyla from protozoa through the protostomes.

47. 6147 Selected Topics in Life Science (1-3) Prereq: BIOL 1001, 1002, 1003, and 1004; or equivalent. May be repeated for a max. of 6 sem. hrs. credit when topics vary. Specific areas of biological sciences; topics offered determined by recent advances in the field, needs of students, and availability of appropriate faculty.

7013 Coevolution (3) See ENTM 7013.

7080 Population Ecology (3) Prereq: ZOOL 4153 or equivalent. Advanced topics emphasizing animals in population growth and regulation; life histories; foraging behavior; agonism and territory; and group behavior.

7083 Population and Community Ecology (3) See BOTY 7083.

7111 Systematic Biology (4) Prereq: 8 sem. hrs. of 4000 level zoology or equivalent; introductory statistics recommended, 3 hrs. lecture; 2 hrs. lab. See BOTY 7111. Theoretical and empirical aspects of systematics and evolutionary biology.

7118 Ethology (4) Prereq: consent of instructor. 2 hrs. lecture; 6 hrs. lab. and field work. Evolutionary basis of animal behavior.

7120 Marine Ecology (3) Prereq: consent of instructor. 2 hrs. lecture; 3 hrs. lab. and field work. Also offered as MRSC 7117. Physical, chemical, and biological environmental factors affecting distribution of marine fauna; communities representative of each of the ecological subdivisions of the world's oceans treated with respect to species composition, food webs, and seasonal changes; human impact on the marine environment.

7130 Environmental Physiology of Estuarine Animals (4) Prereq: consent of instructor. 3 hrs. lecture; 3 hrs. lab. Effects of salinity, temperature, and dissolved oxygen on the physiology of estuarine fauna.

7147 Selected Topics in General Zoology (3) Prereq: consent of instructor. May be taken twice for credit when topics vary. Detailed treatment of special areas of zoology.

7148 Selected Topics in Animal Ecology (3) Prereq: consent of instructor. May be taken twice for credit when topics vary. Detailed treatment of special areas of ecology.

7152 Advanced Vertebrate Anatomy (4) Prereq: ZOOL 2152. 2 hrs. lecture; 6 hrs. lab.

7153 Mutagenesis (3) Prereq: ZOOL 2153 and consent of instructor. Mechanisms of mutation; methods of detecting mutations; comparisons of effect of mutagenic agents among various test organisms.

7154 Advanced Genetics Laboratory (3) Prereq: ZOOL 2154 and consent of instructor. 1 hr. lecture; 6 hrs. lab. Experiments with Drosophila melanogaster; study of genetic and cytological variations due to deficiencies, duplications, inversions, rings, translocations, transpositions, compound chromosomes, and Y derivatives; classical genetic loci and loci controlling electrophoretic mobility of enzymes and other proteins used; stocks synthesized to meet specific requirements for mutational and biochemical research.

7156 Experimental Embryology (4) Prereq: ZOOL 3156 or equivalent. 3 hrs. lecture; 3 hrs. lab.

7157 Molecular Adaptation to the Environment (4) Prereq: consent of instructor. 3 hrs. lecture; 3 hrs. lab. Molecular and physiological mechanisms adapting organisms to environmental factors; emphasis on adaptations permitting organisms to inhabit a diversity of environments.

7158 Selected Topics in Comparative Physiology (3) Prereq: consent of instructor. May be taken twice for credit when topics vary. Special areas of physiology.

7160 Histochemistry and Cytochemistry (4) Prereq: 3 sem. hrs. of biochemistry or equivalent. 2 hrs. lecture; 6 hrs. lab.

7171 Physiological Rhythms (3) Prereq: consent of instructor. 1 hr. lecture; 4 hrs. lab. Role of exogenous and endogenous rhythms in regulation of physiological systems.

7177 Neurosensory Physiology (4) Prereq: ZOOL 4155 or 4157 or 4160. 2 hrs. lecture; 6 hrs. lab. Physiology of nerve and sensory receptors; vertebrate systems and independent laboratory investigation.

7253 Population Genetics (3) Prereq: ZOOL 2153 or equivalent, and one semester of calculus or statistics. Genetic variation in natural populations; application of Hardy-Weinberg law; effects of selection, inbreeding, random drift, migration, and mutation on gene frequencies.

7648 Museum Field Expedition (6) Prereq: consent of instructor. One semester in the field under direction of the Museum of Natural Science staff.

7701 Electron Microscopy (2) Same as BOTY 7701, ME 7701, GEOL 7701, MBIO 7701. Transmission and scanning electron microscopy and x-ray analysis of biological and non-biological materials; theory, operation, and application of the instruments.

7702 Transmission Electron Microscopy Laboratory: Biological Materials (3) S Prereq: credit or registration in ZOOL 7701 or equivalent. 9 hrs. lab. Same as BOTY 7702 and MBIO 7702. Preparation of biological specimens for transmission electron microscopy; use of the electron microscope.

7703 Scanning Electron Microscopy Laboratory: Biological Materials (2) S,Su Prereq: credit or registration in ZOOL 7701 or equivalent. 6 hrs. lab. Same as BOTY 7703 and MBIO 7703. Preparation of biological specimens for scanning electron microscopy; use of the S-500 SEM.

7921 Seminar in General Zoology (1) May be repeated for credit.

7924 Seminar in Invertebrate Zoology (1) May be repeated for credit.

7926 Seminar in Vertebrate Zoology (1) May be repeated for credit.

7928 Seminar in Embryology and Developmental Biology (1) May be repeated for credit.

7931, 7932 Seminar in Physiology (1,1) Each course may be repeated for credit.

7934, 7935 Seminar in Genetics (1,1) Each course may be repeated for credit.

7936, 7937 Seminar in Ecology (1,1) Each course may be repeated for credit.

7938, 7939 Seminar in Systematics, Evolution, and Zoogeography (1,1) Each course may be repeated for credit.

7940, 7941 Seminar in Parasitology (1,1) Each course may be repeated for credit.

7942 Seminar in Morphology (1) May be repeated for credit.

7944, 7945 Seminar in Cell Biology (1,1) Each course may be repeated for credit.
7946 Seminar: Current Topics in Molecular Evolution (1)  
Prereq: course in evolution, genetics, BCH 4087 or equivalent. Also offered as BCH 7946 and ENTM 7946. May be repeated for max. of 3 hrs. credit.

8000 Thesis Research (1-12 per sem.) "S"/"U" grading.

8900 Research (2-8) Prereq: consent of instructor. 1 hr. conference; 3 hrs. lab. per sem. hour. May be repeated for a max. of 8 sem. hrs. credit.

9000 Dissertation Research (1-12 per sem.) "S"/"U" grading.
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*Under the Constitution of the State of Louisiana, 17 members are appointed to the Board of Supervisors by the Governor; Act 2 of the 1975 extraordinary session of the Louisiana Legislature authorized the appointment of one student member. The term of appointment of new members may not exceed six years; the student member serves a one-year term. This list reflects Board membership at the time of publication of this catalog. Officers of the Board serve a one-year term beginning in August.*
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The faculty of the University is defined as full-time members of the academic staff having the rank of instructor or higher (or equivalent ranks).* The faculty, through the Faculty Council, shall establish curricula, fix standards of instruction, determine requirements for degrees, and generally determine educational policy, subject to the authority of the Board of Supervisors. The authorities and responsibilities of the Faculty Council have been delegated to the elected Faculty Senate.

DISTINGUISHED PROFESSORSHIPS

Alumni Professors

Selection as an Alumni Professor is based on reputation for excellence in instruction, especially in undergraduate teaching; record of active and continuing interest and participation in areas of professor-student relations; dedication to an academic field; and outstanding professional relationships with other faculty and staff members. Faculty members currently holding the title of Alumni Professors at LSU are as follows.

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HUBERT S. BUTTS
JESSE COATES (retired)
ARTHUR R. COLMER (retired)
BEVERLY J. COVINGTON (retired)
HERMAN E. DALY
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GRESDNA A. DOTY
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ROBERT W. HECK (retired)

MERLIN T. HENDERSON (retired)
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GEORGE G. KENT, JR. (retired)
JOHN L. LOOS (retired)
BURG L. NOGGLE
JAMES P. PAYNE, JR. (retired)
ROBERT S. REICH (retired)
CLAUDI L. SHAVER (retired)
DONALD E. STANFORD (retired)
EDWIN O. TIMMONS (retired)
Faculty members who are designated as Boyd Professors have attained national or international distinction for outstanding teaching, research, or other creative achievement. The Boyd Professorship is the highest professorial rank awarded by the University. Faculty members currently designated as Boyd Professor at LSU are as follows.

RICHARD D. ANDERSON (retired)  
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WALDO W. BRADEN (retired)  
JOSEPH CALLAWAY  
JAMES M. COLEMAN  
C. DINOS CONSTANTINIDES  
MARY L. GOOD (retired)  
RUDOLF HEBERLE (retired)  
FRED B. KNIFFEN (retired)  
WEX S. MALONE (retired)  
SEAN P. McGLYNN  
ROBERT F. O'CONNELL  
WILLIAM H. PATRICK, JR.  
WILLIAM A. PRYOR  
JOSEPH M. REYNOLDS (retired)  
ARTHUR J. RIOPELLE  
LEWIS P. SIMPSON (retired)  
SHIRLEY C. TUCKER  
H. JESSIE WALKER (retired)  
PHILIP W. WEST (retired)  
ROBERT C. WEST (retired).

Other Distinguished Professorships

The William A. Read Professorship of English Literature and the Nicholson Professorship of Mathematics are comparable to the Boyd Professorship. The following faculty members currently hold these professorships.

Nicholson Professor of Mathematics—PIERRE E. CONNER, JR.  
William A. Read Professor Emeritus of English Literature—LEWIS P. SIMPSON

In addition to the above, the University’s other distinguished professorships and the faculty members who hold them are as follows:

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Campanile Charities Professor of Offshore Mining and Petroleum Engineering—ADAM T. BOURGOYNE  
Peat Marwick Main Endowed Professor of Accounting—VINCENT C. BRENNER  
LSU Foundation Murphy J. Foster Professor of Computer Science—PETER P. CHEN  
Piccadilly, Inc., Distinguished Business Partnership Professor of Marketing—WILLIAM R. DARDEN  
LSU Foundation Hopkins P. Breazeale Professor of Petroleum Engineering—ROBERT DESBRANDES  
Lloyd F. Collette Endowed Chair of Insurance and Financial Services—GEORGE M. FRANKFURTER  
Manship Chair of Journalism—WILLIAM E. GILES  
LSU Foundation Distinguished Professor of French—EDOUARD GLISSANT  
Accounting Alumni Distinguished Professor—BART P. HARTMAN  
Campanile Charities Professor of Geology and Geophysics—JOSEPH E. HAZEL  
LSU Foundation James C. Bolton Professor of Ports and Waterways—ANATOLY B. HOCHSTEIN  
LSU Foundation Henry J. Voorhis Professor of English—JAMES OLNEY
Ernst & Whinney Professor of Accounting—KENNETH N. ORBACH
T. Harry Williams Chair of American History—CHARLES W. ROYSTER
Louisiana Real Estate Commission Endowed Chair of Real Estate—CLEMON F. SIRMANS, JR.
Louisiana National Bank/Chuck McCoy Distinguished Professorship in Financial Institutions—MYRON B. SLOVIN
Louisiana Bankers Association Chair of Banking—WILLIAM F. STAATS
LSU Foundation Professor of Economics—DAVID J. SMYTH

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YALCIN ACAR, Associate Professor of Civil Engineering. Ph.D., Bogazici University (Turkey).
ANTONIO S. ACHACOSO, Associate Professor of Dairy Science; Associate Dean, College of Agriculture. Ph.D., LSU.
SUMANTA ACHARYA, Associate Professor of Mechanical Engineering. Ph.D., University of Minnesota.
ERIC ACHBERGER, Assistant Professor of Microbiology. Ph.D., Pennsylvania State University.
ALAN C. ACOCK, Professor of Sociology; Professor of Rural Sociology. Ph.D., Washington State University.
CHARLES E. ADAMS, JR., Associate Professor of Geology and Geophysics. Ph.D., Florida State University.
WILLIE V. ADAMS, JR., Instructor in Veterinary Science. M.S., LSU.
WILLIAM A. ADKINS, Associate Professor of Mathematics; Vice-Chairman and Director of Graduate Studies. Ph.D., University of Oregon.
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CHARLAYNE D. ALLAN, Instructor in Foreign Languages and Literatures. M.A.T., Vanderbilt University.
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DAVID M. ANDERSON, Instructor in Accounting. M.B.A., LSU.
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JOHN H. ANDERSON, Instructor in Physical Education (School of Health, Physical Education, Recreation, and Dance). M.S., Troy State University.
JAN A. ANDREASSEN, Assistant Professor in Ports and Waterways Institute. M.A., University of Houston.
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ARA ARMAN, Professor of Civil Engineering; Director, Louisiana Transportation Research Center. M.S., University of Texas, Austin.
FREDERICK A. de ARMAS, Professor of Spanish (Department of Foreign Languages and Literatures). Ph.D., University of North Carolina, Chapel Hill.

JESSE J. ARMENTOR, Instructor in Accounting. M.S., LSU.

KIMBERLY P. ARP, Associate Professor of Art (Printmaking). M.F.A., Indiana University.

MARTINA ARROYO, Professor of Music. B.A., Hunter College.

SADIK C. ARTUNC, Associate Professor of Landscape Architecture. M.L.A., University of Michigan.

RICHARD ASLANIAN, Associate Professor of Music. B.Mus., New England Conservatory of Music; advanced studies at Mannes College of Music and Cologne Conservatory.

CORBELITA J. ASTRAQUILLO, Associate Professor of Music. Mus.D., Indiana University.

GAYLE M. ATER, Instructor in Education (University Laboratory School). M.Ed., LSU.

RHONDA H. ATKINSON, Instructor in Junior Division (Developmental Reading). M.A., University of Central Arkansas.

WINTON G. AUBERT, Instructor in Petroleum Engineering. Ph.D., LSU.

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H. PARROTT BACOT, Executive Director, LSU Museum Complex; Director and Curator, Anglo-American Art Museum; Adjunct Professor of Art History (School of Art). M.A., State University of New York, Oneonta.

CHARLENE B. BADEAUX, Instructor in Quantitative Business Analysis. M.S., University of Southwestern Louisiana.

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ARNOLD BAHAM, Associate Professor of Dairy Science. Ph.D., Auburn University.

JOHN B. BAKER, Professor of Crop Physiology (Department of Plant Pathology and Crop Physiology). Ph.D., University of Wisconsin, Madison.

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MARY L. BALTHAZAR, Associate Professor of Social Work. D.S.W., Tulane University.

DONALD M. BALTZ, Assistant Professor (Research) of Marine Sciences; Assistant Professor in Coastal Fisheries Institute. Ph.D., University of California, Davis.

GILBERT W. BANE, Director, Coastal Fisheries Institute. Ph.D., Cornell University.

WILLIAM J. BANKS, Professor of Veterinary Anatomy and Fine Structure; Head, Department of Veterinary Anatomy and Fine Structure. D.V.M., Ph.D., Colorado State University.

DOROTHY H. BANKSTON, Assistant Professor of English; Director of Freshman English. M.A., University of Southwestern Louisiana.

WILLIAM B. BANKSTON, Associate Professor of Sociology. Ph.D., University of Tennessee.

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Where to Write

Campus zip code is 70803 and area code is 504
Campus office hours are 8:00 a.m.-12:00, 12:30-4:30 p.m., Monday-Friday

Requests for information and application forms for admission to divisions at LSU should be addressed as indicated below.

Undergraduate divisions: Office of Admissions
Graduate School: Graduate Admissions Office
School of Library & Information Science: Dean, School of Library & Information Science
School of Social Work: Dean, School of Social Work
School of Veterinary Medicine: Dean, School of Veterinary Medicine

The following is a selected list of offices most frequently contacted for information.

Office of Admissions
110 Thomas Boyd Hall • 388-1175

Graduate School
131 David Boyd Hall • 388-2311

Office of the Dean of Students
114 David Boyd Hall • 388-4423

International Student Office
International Center
Raphael Semmes Rd. • 388-5350

Junior Division
150 Allen Hall • 388-6822

Measurement and Evaluation Center
51 Himes Hall • 388-1145

Office of Student Aid and Scholarships
202 Himes Hall • 388-3103

Office of Residence Food Services
Food Service Building • 388-8505

Office of Residential Housing
99 Garig Hall • 388-8663

Student Government Association
330 Union Building • 388-8727

Office of Student Records and Registration
112 Thomas Boyd Hall • 388-1686

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